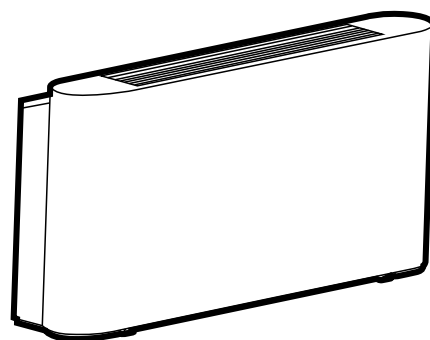


# Universal Fancoil DC

Service manual

**MUC-W9**



# Content

- 1. Features .....2
- 2. External Appearance .....2
- 3. Standard with a variety of control functions .....2
- 4. Standard PCB compatible with more functions .....2
- 5. Products Lineup.....3
- 6. Nomenclature .....3
- 7. Specifications .....4
- 8. Dimensions.....13
- 9. Sound Levels.....15
- 10. Service Spaces.....52
- 11. Wiring Diagrams .....53
- 12. Installation .....33

## 1. Features

### ✚ Flexible for installation, designed for horizontal/vertical, concealed/cabinet application

Ceiling Installation



Floor Installation



Concealed Installation



### ✚ High efficiency and low operating sound level

Due to the DC fan motor, the unit operates in lower power consumption and lower operating sound level.

### ✚ Meet CE certification requirements

The unit can meet the latest CE certification requirements for using DC fan motor.



## 2. External Appearance

Cased Type (CE Series)



Uncased Type (SE Series)



## 3. Standard with a variety of control functions

### ✚ Seven fan speed control

Seven Fan speed control function must used the new controller (KJRP-75A/BK-E) and only with W9 series indoor unit.



KJRP-75A/BK-E (Code LC04630)

### ✚ Centralized control and Modbus

The centralized control function can be connected through the network module whereas the Modbus can be connected through the reserve port.

## 4. Standard PCB compatible with more functions

### ✚ Forced fan running function

With/without forced fan on can be set by PCB switch, field adjustable.

### Hysteresis temperature setting

Hysteresis temperature can be set in heating and cooling mode by PCB switch, field adjustable.

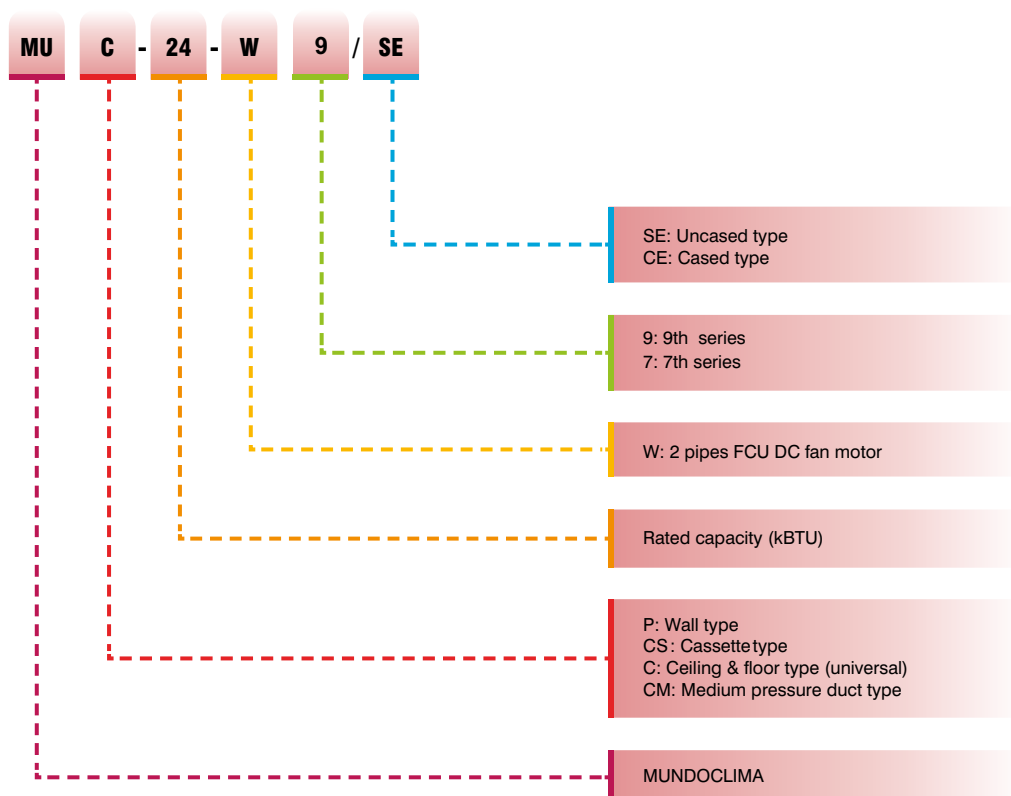
### 0-10V wired control

| Voltage output of controller | Fan speed |
|------------------------------|-----------|
| $1 \leq \text{voltage} < 3$  | 1         |
| $3 \leq \text{voltage} < 4$  | 2         |
| $4 \leq \text{voltage} < 5$  | 3         |
| $5 \leq \text{voltage} < 6$  | 4         |
| $5 \leq \text{voltage} < 7$  | 5         |
| $7 \leq \text{voltage} < 8$  | 6         |
| $8 \leq \text{voltage} < 10$ | 7         |

## 5. Products Lineup

| Model                        | Air volume (CFM) | External static pressure            | Power supply      |
|------------------------------|------------------|-------------------------------------|-------------------|
| MUC-05-W9/SE<br>MUC-05-W9/CE | 150              | CE models: 0Pa.<br>SE models: 12Pa. | 220~240V-1Ph-50Hz |
| MUC-08-W9/SE<br>MUC-08-W9/CE | 250              |                                     |                   |
| MUC-11-W9/SE<br>MUC-11-W9/CE | 350              |                                     |                   |
| MUC-16-W9/SE<br>MUC-16-W9/CE | 500              |                                     |                   |
| MUC-19-W9/SE<br>MUC-19-W9/CE | 700              |                                     |                   |
| MUC-24-W9/SE<br>MUC-24-W9/CE | 800              |                                     |                   |

## 6. Nomenclature



## 7. Specifications

|                          |                          |                                    |                |                  |                |                 |
|--------------------------|--------------------------|------------------------------------|----------------|------------------|----------------|-----------------|
| Model                    |                          |                                    | MUC-05-W9/SE   | (none)           | MUC-08-W9/SE   | (none)          |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50   |                  |                |                 |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 255/170/150    | 255/210/150      | 400/315/190    | 425/300/190     |
|                          |                          | CFM                                | 150/100/88     | 150/124/88       | 235/185/112    | 250/176/112     |
| External static pressure |                          | Pa                                 | 12             |                  |                |                 |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 1.14/0.77/0.66 | 1.42/1.19/0.85   | 1.79/1.44/0.86 | 2.06/1.51/0.96  |
|                          | Capacity (H/M/L)         | kW                                 | 1.50/1.06/0.92 | 1.95/1.66/1.21   | 2.35/1.94/1.19 | 2.85/2.13/1.41  |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.26/0.18/0.16 | 0.33/0.28/0.21   | 0.40/0.34/0.21 | 0.49/0.37/0.24  |
|                          | Water pressure drop      | kPa                                | 13.9/8.21/6.16 | 27.2/20.88/12.2  | 13.3/9.98/4.59 | 26/15.06/7.41   |
| Heating                  | Capacity (H/M/L)         | kW                                 | 1.57/1.07/0.92 | 2.05/1.75/1.25   | 2.60/2.11/1.34 | 2.95/2.15/1.42  |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.27/0.19/0.16 | 0.35/0.30/0.22   | 0.45/0.37/0.23 | 0.51/0.37/0.24  |
|                          | Water pressure drop      | kPa                                | 15.1/7.63/5.84 | 25.3/19.65/10.25 | 14.3/10.33/4.5 | 24.4/13.65/6.64 |
| Power input (H/M/L)      |                          | W                                  | 15/9/8         | 20/14/9          | 17/12/7        | 20/11/8         |
| Rated current            |                          | A                                  | 0.18           | 0.21             | 0.20           | 0.22            |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 34/24/21       | 39/33/25         | 29/24/18       | 32/23/19        |
| Sound power level        | (H/M/L)                  | dB(A)                              | 47/36/34       | 52/46/38         | 43/37/29       | 46/37/29        |
| Fan motor                | Type                     | Low noise DC fan motor             |                |                  |                |                 |
|                          | Quantity                 |                                    | 1              | 1                | 1              | 1               |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                |                  |                |                 |
|                          | Quantity                 |                                    | 1              | 1                | 2              | 2               |
| Coil                     | Row                      |                                    | 3              | 4                | 3              | 4               |
|                          | Max. working pressure    | MPa                                | 1.6            | 1.6              | 1.6            | 1.6             |
|                          | Diameter                 | mm                                 | Φ7.94          | Φ7.94            | Φ7.94          | Φ7.94           |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 455×200×637    | 455×200×637      | 455×200×867    | 455×200×867     |
|                          | Packing size (W×D×H)     | mm                                 | 555×255×755    | 555×255×755      | 555×255×985    | 555×255×985     |
|                          | Net weight               | kg                                 | 11.8           | 12.1             | 13.9           | 14.8            |
|                          | Gross weight             | kg                                 | 16.1           | 16.4             | 19.4           | 20.3            |
| Water inlet/outlet pipe  |                          | inch                               | G3/4           | G3/4             | G3/4           | G3/4            |
| Drain pipe               |                          | mm                                 | ODΦ18.5        | ODΦ18.5          | ODΦ18.5        | ODΦ18.5         |

Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.
6. Test with conceal tooling.

|                          |                          |                                    |                  |                  |                  |                  |
|--------------------------|--------------------------|------------------------------------|------------------|------------------|------------------|------------------|
| Model                    |                          |                                    | MUC-11-W9/SE     | (none)           | MUC-16-W9/SE     | (none)           |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50     |                  |                  |                  |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 595/470/340      | 595/450/310      | 790/580/410      | 800/600/420      |
|                          |                          | CFM                                | 350/276/200      | 350/265/182      | 488/359/253      | 471/353/247      |
| External static pressure |                          | Pa                                 | 12               |                  |                  |                  |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 2.65/2.14/1.57   | 2.90/2.35/1.72   | 3.25/2.56/1.91   | 3.63/2.85/2.08   |
|                          | Capacity (H/M/L)         | kW                                 | 3.50/2.89/2.22   | 3.90/3.20/2.43   | 4.30/3.48/2.71   | 4.85/3.92/2.93   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.60/0.50/0.38   | 0.67/0.55/0.42   | 0.74/0.60/0.47   | 0.83/0.67/0.51   |
|                          | Water pressure drop      | kPa                                | 34.1/24.63/15.39 | 37.4/25.91/15.37 | 54.2/36.22/22.78 | 54.3/36.81/21.77 |
| Heating                  | Capacity (H/M/L)         | kW                                 | 3.80/3.10/2.35   | 4.00/3.22/2.50   | 4.70/3.70/2.81   | 5.25/4.09/3.04   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.65/0.53/0.40   | 0.70/0.56/0.43   | 0.81/0.64/0.48   | 0.91/0.71/0.53   |
|                          | Water pressure drop      | kPa                                | 35.1/24.41/14.82 | 36.5/25.34/14.22 | 54.3/36.87/22.32 | 53.4/36.54/20.47 |
| Power input (H/M/L)      |                          | W                                  | 26/17/10         | 29/17/11         | 50/25/14         | 52/28/15         |
| Rated current            |                          | A                                  | 0.26             | 0.28             | 0.49             | 0.51             |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 38/32/23         | 40/34/30         | 46/38/30         | 45/39/30         |
| Sound power level        | (H/M/L)                  | dB(A)                              | 52/44/36         | 52/45/36         | 59/51/43         | 59/51/43         |
| Fan motor                | Type                     | Low noise DC fan motor             |                  |                  |                  |                  |
|                          | Quantity                 |                                    | 1                | 1                | 1                | 1                |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                  |                  |                  |                  |
|                          | Quantity                 |                                    | 2                | 2                | 2                | 2                |
| Coil                     | Row                      |                                    | 3                | 4                | 3                | 4                |
|                          | Max. working pressure    | MPa                                | 1.6              | 1.6              | 1.6              | 1.6              |
|                          | Diameter                 | mm                                 | Φ7.94            | Φ7.94            | Φ7.94            | Φ7.94            |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 455×200×1087     | 455×200×1087     | 455×200×1087     | 455×200×1087     |
|                          | Packing size (W×D×H)     | mm                                 | 555×255×1205     | 555×255×1205     | 555×255×1205     | 555×255×1205     |
|                          | Net weight               | kg                                 | 17.3             | 18.2             | 17.3             | 18.2             |
|                          | Gross weight             | kg                                 | 24.0             | 24.9             | 24.0             | 24.9             |
| Water inlet/outlet pipe  |                          | inch                               | G3/4             | G3/4             | G3/4             | G3/4             |
| Drain pipe               |                          | mm                                 | ODΦ18.5          | ODΦ18.5          | ODΦ18.5          | ODΦ18.5          |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.
6. Test with conceal tooling.

|                          |                          |                                    |                  |                  |                 |                  |
|--------------------------|--------------------------|------------------------------------|------------------|------------------|-----------------|------------------|
| Model                    |                          |                                    | MUC-19-W9/SE     | (none)           | MUC-24-W9/SE    | (none)           |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50     |                  |                 |                  |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 1190/855/505     | 1190/875/530     | 1360/1015/685   | 1300/980/680     |
|                          |                          | CFM                                | 700/503/297      | 700/515/312      | 800/597/403     | 765/576/400      |
| External static pressure |                          | Pa                                 | 12               |                  |                 |                  |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 4.62/3.60/2.43   | 4.98/3.98/2.68   | 5.87/4.74/3.45  | 6.12/4.82/3.42   |
|                          | Capacity (H/M/L)         | kW                                 | 5.60/4.47/3.14   | 6.35/5.19/3.62   | 7.35/6.12/4.57  | 8.25/6.65/4.84   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.96/0.77/0.54   | 1.09/0.90/0.63   | 1.27/1.05/0.79  | 1.43/1.14/0.83   |
|                          | Water pressure drop      | kPa                                | 50.7/33.38/17.73 | 32.8/21.75/11.43 | 44.1/33.7/19.41 | 71.4/46.17/25.39 |
| Heating                  | Capacity (H/M/L)         | kW                                 | 6.00/4.77/3.36   | 7.05/5.61/3.83   | 8.05/6.46/4.71  | 8.70/6.81/4.85   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 1.04/0.83/0.59   | 1.22/0.98/0.67   | 1.39/1.12/0.82  | 1.51/1.18/0.83   |
|                          | Water pressure drop      | kPa                                | 55.5/37.66/19.27 | 37.6/25.47/12.5  | 46.9/31.9/18.16 | 62.6/41.06/21.68 |
| Power input (H/M/L)      |                          | W                                  | 96/44/17         | 92/46/19         | 113/53/22       | 102/49/22        |
| Rated current            |                          | A                                  | 0.85             | 0.79             | 0.95            | 0.87             |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 50/42/31         | 50/43/31         | 51/44/33        | 50/43/33         |
| Sound power level        | (H/M/L)                  | dB(A)                              | 64/56/45         | 62/56/46         | 63/58/49        | 63/57/47         |
| Fan motor                | Type                     | Low noise DC fan motor             |                  |                  |                 |                  |
|                          | Quantity                 |                                    | 1                | 1                | 1               | 1                |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                  |                  |                 |                  |
|                          | Quantity                 |                                    | 3                | 3                | 3               | 3                |
| Coil                     | Row                      |                                    | 3                | 4                | 3               | 4                |
|                          | Max. working pressure    | MPa                                | 1.6              | 1.6              | 1.6             | 1.6              |
|                          | Diameter                 | mm                                 | Φ7.94            | Φ7.94            | Φ7.94           | Φ7.94            |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 455×200×1207     | 455×200×1207     | 550×200×1207    | 550×200×1207     |
|                          | Packing size (W×D×H)     | mm                                 | 555×255×1325     | 555×255×1325     | 650×255×1325    | 650×255×1325     |
|                          | Net weight               | kg                                 | 19.6             | 20.8             | 23.1            | 24.3             |
|                          | Gross weight             | kg                                 | 26.4             | 27.6             | 30.2            | 31.4             |
| Water inlet/outlet pipe  |                          | inch                               | G3/4             | G3/4             | G3/4            | G3/4             |
| Drain pipe               |                          | mm                                 | ODΦ18.5          | ODΦ18.5          | ODΦ18.5         | ODΦ18.5          |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.
6. Test with conceal tooling.

|                          |                          |                   |                                    |                  |                |                 |
|--------------------------|--------------------------|-------------------|------------------------------------|------------------|----------------|-----------------|
| Model                    |                          |                   | MUC-05-W9/CE                       | (none)           | MUC-08-W9/CE   | (none)          |
| Power supply             |                          | V/Ph/Hz           | 220-240/1/50                       |                  |                |                 |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h | 255/170/150                        | 255/210/150      | 400/315/190    | 425/300/190     |
|                          |                          | CFM               | 150/100/88                         | 150/124/88       | 235/185/112    | 250/176/112     |
| External static pressure |                          | Pa                | 0                                  |                  |                |                 |
| Cooling                  | Sensible Capacity(H/M/L) | kW                | 1.14/0.77/0.66                     | 1.42/1.19/0.85   | 1.79/1.44/0.86 | 2.06/1.51/0.96  |
|                          | Capacity (H/M/L)         | kW                | 1.50/1.06/0.92                     | 1.95/1.66/1.21   | 2.35/1.94/1.19 | 2.85/2.13/1.41  |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.26/0.18/0.16                     | 0.33/0.28/0.21   | 0.40/0.34/0.21 | 0.49/0.37/0.24  |
|                          | Water pressure drop      | kPa               | 13.9/8.21/6.16                     | 27.2/20.88/12.2  | 13.3/9.98/4.59 | 26/15.06/7.41   |
| Heating                  | Capacity (H/M/L)         | kW                | 1.57/1.07/0.92                     | 2.05/1.75/1.25   | 2.60/2.11/1.34 | 2.95/2.15/1.42  |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.27/0.19/0.16                     | 0.35/0.30/0.22   | 0.45/0.37/0.23 | 0.51/0.37/0.24  |
|                          | Water pressure drop      | kPa               | 15.1/7.63/5.84                     | 25.3/19.65/10.25 | 14.3/10.33/4.5 | 24.4/13.65/6.64 |
| Power input (H/M/L)      |                          | W                 | 15/9/8                             | 20/14/9          | 17/12/7        | 20/11/8         |
| Rated current            |                          | A                 | 0.18                               | 0.21             | 0.20           | 0.22            |
| Sound pressure level     | (H/M/L)                  | dB(A)             | 34/24/21                           | 39/33/25         | 29/24/18       | 32/23/19        |
| Sound power level        | (H/M/L)                  | dB(A)             | 47/36/34                           | 52/46/38         | 43/37/29       | 46/37/29        |
| Fan motor                | Type                     |                   | Low noise DC fan motor             |                  |                |                 |
|                          | Quantity                 |                   | 1                                  | 1                | 1              | 1               |
| Fan                      | Type                     |                   | Centrifugal, forward-curved Blades |                  |                |                 |
|                          | Quantity                 |                   | 1                                  | 1                | 2              | 2               |
| Coil                     | Row                      |                   | 3                                  | 4                | 3              | 4               |
|                          | Max. working pressure    | MPa               | 1.6                                | 1.6              | 1.6            | 1.6             |
|                          | Diameter                 | mm                | Φ7.94                              | Φ7.94            | Φ7.94          | Φ7.94           |
| Body                     | Net dimensions (W×D×H)   | mm                | 495×200×790                        | 495×200×790      | 495×200×1020   | 495×200×1020    |
|                          | Packing size (W×D×H)     | mm                | 595×300×895                        | 595×300×895      | 595×300×1125   | 595×300×1125    |
|                          | Net weight               | kg                | 18.0                               | 18.5             | 21.5           | 22.0            |
|                          | Gross weight             | kg                | 23.5                               | 24.0             | 27.5           | 28.0            |
| Water inlet/outlet pipe  |                          | inch              | G3/4                               | G3/4             | G3/4           | G3/4            |
| Drain pipe               |                          | mm                | ODΦ18.5                            | ODΦ18.5          | ODΦ18.5        | ODΦ18.5         |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.



|                          |                          |                   |                                    |                  |                  |                  |
|--------------------------|--------------------------|-------------------|------------------------------------|------------------|------------------|------------------|
| Model                    |                          |                   | MUC-11-W9/CE                       | (none)           | MUC-16-W9/CE     | (none)           |
| Power supply             |                          | V/Ph/Hz           | 220-240/1/50                       |                  |                  |                  |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h | 595/470/340                        | 595/450/310      | 790/580/410      | 800/600/420      |
|                          |                          | CFM               | 350/276/200                        | 350/265/182      | 488/359/253      | 471/353/247      |
| External static pressure |                          | Pa                | 0                                  |                  |                  |                  |
| Cooling                  | Sensible Capacity(H/M/L) | kW                | 2.65/2.14/1.57                     | 2.90/2.35/1.72   | 3.25/2.56/1.91   | 3.63/2.85/2.08   |
|                          | Capacity (H/M/L)         | kW                | 3.50/2.89/2.22                     | 3.90/3.20/2.43   | 4.30/3.48/2.71   | 4.85/3.92/2.93   |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.60/0.50/0.38                     | 0.67/0.55/0.42   | 0.74/0.60/0.47   | 0.83/0.67/0.51   |
|                          | Water pressure drop      | kPa               | 34.1/24.63/15.39                   | 37.4/25.91/15.37 | 54.2/36.22/22.78 | 54.3/36.81/21.77 |
| Heating                  | Capacity (H/M/L)         | kW                | 3.80/3.10/2.35                     | 4.00/3.22/2.50   | 4.70/3.70/2.81   | 5.25/4.09/3.04   |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.65/0.53/0.40                     | 0.70/0.56/0.43   | 0.81/0.64/0.48   | 0.91/0.71/0.53   |
|                          | Water pressure drop      | kPa               | 35.1/24.41/14.82                   | 36.5/25.34/14.22 | 54.3/36.87/22.32 | 53.4/36.54/20.47 |
| Power input (H/M/L)      |                          | W                 | 26/17/10                           | 29/17/11         | 50/25/14         | 52/28/15         |
| Rated current            |                          | A                 | 0.26                               | 0.28             | 0.49             | 0.51             |
| Sound pressure level     | (H/M/L)                  | dB(A)             | 38/32/23                           | 40/34/30         | 46/38/30         | 45/39/30         |
| Sound power level        | (H/M/L)                  | dB(A)             | 52/44/36                           | 52/45/36         | 59/51/43         | 59/51/43         |
| Fan motor                | Type                     |                   | Low noise DC fan motor             |                  |                  |                  |
|                          | Quantity                 |                   | 1                                  | 1                | 1                | 1                |
| Fan                      | Type                     |                   | Centrifugal, forward-curved Blades |                  |                  |                  |
|                          | Quantity                 |                   | 2                                  | 2                | 2                | 2                |
| Coil                     | Row                      |                   | 3                                  | 4                | 3                | 4                |
|                          | Max. working pressure    | MPa               | 1.6                                | 1.6              | 1.6              | 1.6              |
|                          | Diameter                 | mm                | Φ7.94                              | Φ7.94            | Φ7.94            | Φ7.94            |
| Body                     | Net dimensions (W×D×H)   | mm                | 495×200×1240                       | 495×200×1240     | 495×200×1240     | 495×200×1240     |
|                          | Packing size (W×D×H)     | mm                | 595×300×1345                       | 595×300×1345     | 595×300×1345     | 595×300×1345     |
|                          | Net weight               | kg                | 25.5                               | 26.5             | 25.5             | 26.5             |
|                          | Gross weight             | kg                | 32.5                               | 33.5             | 32.5             | 33.5             |
| Water inlet/outlet pipe  |                          | inch              | G3/4                               | G3/4             | G3/4             | G3/4             |
| Drain pipe               |                          | mm                | ODΦ18.5                            | ODΦ18.5          | ODΦ18.5          | ODΦ18.5          |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

|                          |                          |                                    |                  |                  |                 |                  |
|--------------------------|--------------------------|------------------------------------|------------------|------------------|-----------------|------------------|
| Model                    |                          |                                    | MUC-19-W9/CE     | (none)           | MUC-24-W9/CE    | (none)           |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50     |                  |                 |                  |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 1190/855/505     | 1190/875/530     | 1360/1015/685   | 1300/980/680     |
|                          |                          | CFM                                | 700/503/297      | 700/515/312      | 800/597/403     | 765/576/400      |
| External static pressure |                          | Pa                                 | 0                |                  |                 |                  |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 4.62/3.60/2.43   | 4.98/3.98/2.68   | 5.87/4.74/3.45  | 6.12/4.82/3.42   |
|                          | Capacity (H/M/L)         | kW                                 | 5.60/4.47/3.14   | 6.35/5.19/3.62   | 7.35/6.12/4.57  | 8.25/6.65/4.84   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.96/0.77/0.54   | 1.09/0.90/0.63   | 1.27/1.05/0.79  | 1.43/1.14/0.83   |
|                          | Water pressure drop      | kPa                                | 50.7/33.38/17.73 | 32.8/21.75/11.43 | 44.1/33.7/19.41 | 71.4/46.17/25.39 |
| Heating                  | Capacity (H/M/L)         | kW                                 | 6.00/4.77/3.36   | 7.05/5.61/3.83   | 8.05/6.46/4.71  | 8.70/6.81/4.85   |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 1.04/0.83/0.59   | 1.22/0.98/0.67   | 1.39/1.12/0.82  | 1.51/1.18/0.83   |
|                          | Water pressure drop      | kPa                                | 55.5/37.66/19.27 | 37.6/25.47/12.5  | 46.9/31.9/18.16 | 62.6/41.06/21.68 |
| Power input (H/M/L)      |                          | W                                  | 96/44/17         | 92/46/19         | 113/53/22       | 102/49/22        |
| Rated current            |                          | A                                  | 0.85             | 0.79             | 0.95            | 0.87             |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 50/42/31         | 50/43/31         | 51/44/33        | 50/43/33         |
| Sound power level        | (H/M/L)                  | dB(A)                              | 64/56/45         | 62/56/46         | 63/58/49        | 63/57/47         |
| Fan motor                | Type                     | Low noise DC fan motor             |                  |                  |                 |                  |
|                          | Quantity                 |                                    | 1                | 1                | 1               | 1                |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                  |                  |                 |                  |
|                          | Quantity                 |                                    | 3                | 3                | 3               | 3                |
| Coil                     | Row                      |                                    | 3                | 4                | 3               | 4                |
|                          | Max. working pressure    | MPa                                | 1.6              | 1.6              | 1.6             | 1.6              |
|                          | Diameter                 | mm                                 | Φ7.94            | Φ7.94            | Φ7.94           | Φ7.94            |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 495×200×1360     | 495×200×1360     | 591×200×1360    | 591×200×1360     |
|                          | Packing size (W×D×H)     | mm                                 | 595×300×1465     | 595×300×1465     | 695×300×1465    | 695×300×1465     |
|                          | Net weight               | kg                                 | 28.5             | 29.5             | 32.5            | 34.5             |
|                          | Gross weight             | kg                                 | 36.0             | 37.0             | 41.0            | 42.5             |
| Water inlet/outlet pipe  |                          | inch                               | G3/4             | G3/4             | G3/4            | G3/4             |
| Drain pipe               |                          | mm                                 | ODΦ18.5          | ODΦ18.5          | ODΦ18.5         | ODΦ18.5          |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

|                          |                          |                                    |                |                |                |                |
|--------------------------|--------------------------|------------------------------------|----------------|----------------|----------------|----------------|
| Model                    |                          |                                    | (none)         | (none)         | (none)         | (none)         |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50   |                |                |                |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 245/160/135    | 245/180/130    | 380/245/140    | 380/240/110    |
|                          |                          | CFM                                | 144/94/79      | 144/106/76     | 224/144/82     | 224/141/65     |
| External static pressure |                          | Pa                                 | 0              |                |                |                |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 1.09/0.74/0.63 | 1.36/1.14/0.81 | 1.70/1.36/0.81 | 1.84/1.35/0.85 |
|                          | Capacity (H/M/L)         | kW                                 | 1.44/1.01/0.88 | 1.87/1.59/1.16 | 2.23/1.84/1.13 | 2.55/1.90/1.26 |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.25/0.17/0.15 | 0.32/0.27/0.2  | 0.38/0.32/0.19 | 0.44/0.33/0.22 |
|                          | Water pressure drop      | kPa                                | 13.4/7.9/6.0   | 26.1/20.1/11.8 | 12.7/9.5/4.4   | 23.2/13.5/6.6  |
| Heating                  | Capacity (H/M/L)         | kW                                 | 1.50/1.02/0.88 | 1.97/1.68/1.20 | 2.47/2.00/1.27 | 2.63/1.92/1.27 |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.26/0.17/0.15 | 0.34/0.29/0.21 | 0.42/0.34/0.22 | 0.45/0.33/0.22 |
|                          | Water pressure drop      | kPa                                | 14.5/7.3/5.6   | 24.0/18.8/9.9  | 13.6/9.8/4.3   | 21.8/12.2/5.9  |
| Power input (H/M/L)      |                          | W                                  | 19/15/10       | 20/16/11       | 20/13/10       | 21/12/8        |
| Rated current            |                          | A                                  | 0.20           | 0.21           | 0.21           | 0.22           |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 34/23/21       | 39/33/26       | 30/22/14       | 33/26/17       |
| Sound power level        | (H/M/L)                  | dB(A)                              | 47/36/34       | 52/46/39       | 43/35/27       | 46/38/30       |
| Fan motor                | Type                     | Low noise DC fan motor             |                |                |                |                |
|                          | Quantity                 |                                    | 1              | 1              | 1              | 1              |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                |                |                |                |
|                          | Quantity                 |                                    | 1              | 1              | 2              | 2              |
| Coil                     | Row                      |                                    | 3              | 4              | 3              | 4              |
|                          | Max. working pressure    | MPa                                | 1.6            | 1.6            | 1.6            | 1.6            |
|                          | Diameter                 | mm                                 | Φ7.94          | Φ7.94          | Φ7.94          | Φ7.94          |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 495×211×790    | 495×211×790    | 495×211×1020   | 495×211×1020   |
|                          | Packing size (W×D×H)     | mm                                 | 595×300×895    | 595×300×895    | 595×300×1125   | 595×300×1125   |
|                          | Net weight               | kg                                 | 18.0           | 18.5           | 21.5           | 22.0           |
|                          | Gross weight             | kg                                 | 23.5           | 24.0           | 27.5           | 28.0           |
| Water inlet/outlet pipe  |                          | inch                               | G3/4           | G3/4           | G3/4           | G3/4           |
| Drain pipe               |                          | mm                                 | ODΦ18.5        | ODΦ18.5        | ODΦ18.5        | ODΦ18.5        |

#### Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

|                          |                          |                                    |                |                |                |                |
|--------------------------|--------------------------|------------------------------------|----------------|----------------|----------------|----------------|
| Model                    |                          |                                    | (none)         | (none)         | (none)         | (none)         |
| Power supply             |                          | V/Ph/Hz                            | 220-240/1/50   |                |                |                |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h                  | 580/435/310    | 580/430/300    | 780/550/380    | 780/560/390    |
|                          |                          | CFM                                | 341/256/182    | 341/253/176    | 459/324/224    | 459/329/229    |
| External static pressure |                          | Pa                                 | 0              |                |                |                |
| Cooling                  | Sensible Capacity(H/M/L) | kW                                 | 2.58/2.08/1.53 | 2.83/2.29/1.67 | 3.21/2.52/1.88 | 3.54/2.77/2.02 |
|                          | Capacity (H/M/L)         | kW                                 | 3.41/2.81/2.16 | 3.80/3.11/2.36 | 4.25/3.43/2.67 | 4.73/3.82/2.85 |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.58/0.48/0.37 | 0.65/0.53/0.40 | 0.73/0.59/0.46 | 0.81/0.65/0.49 |
|                          | Water pressure drop      | kPa                                | 33.4/24.0/15.0 | 36.5/25.3/15.0 | 53.5/35.8/24.1 | 53.0/35.9/21.2 |
| Heating                  | Capacity (H/M/L)         | kW                                 | 3.70/3.02/2.29 | 3.90/3.13/2.43 | 4.64/3.65/2.77 | 5.12/3.98/2.96 |
|                          | Water flow rate          | m <sup>3</sup> /h                  | 0.63/0.52/0.39 | 0.67/0.54/0.40 | 0.80/0.63/0.47 | 0.88/0.68/0.51 |
|                          | Water pressure drop      | kPa                                | 34.2/23.8/14.5 | 35.6/24.7/13.9 | 53.6/36.4/22.0 | 52.0/35.6/20.0 |
| Power input (H/M/L)      |                          | W                                  | 27/18/11       | 30/18/12       | 50/26/15       | 52/28/15       |
| Rated current            |                          | A                                  | 0.26           | 0.28           | 0.49           | 0.51           |
| Sound pressure level     | (H/M/L)                  | dB(A)                              | 39/32/24       | 39/32/24       | 46/39/30       | 46/39/30       |
| Sound power level        | (H/M/L)                  | dB(A)                              | 52/45/37       | 52/45/37       | 59/52/43       | 59/52/43       |
| Fan motor                | Type                     | Low noise DC fan motor             |                |                |                |                |
|                          | Quantity                 |                                    | 1              | 1              | 1              | 1              |
| Fan                      | Type                     | Centrifugal, forward-curved Blades |                |                |                |                |
|                          | Quantity                 |                                    | 2              | 2              | 2              | 2              |
| Coil                     | Row                      |                                    | 3              | 4              | 3              | 4              |
|                          | Max. working pressure    | MPa                                | 1.6            | 1.6            | 1.6            | 1.6            |
|                          | Diameter                 | mm                                 | Φ7.94          | Φ7.94          | Φ7.94          | Φ7.94          |
| Body                     | Net dimensions (W×D×H)   | mm                                 | 495×211×1240   | 495×211×1240   | 495×211×1240   | 495×211×1240   |
|                          | Packing size (W×D×H)     | mm                                 | 595×300×1345   | 595×300×1345   | 595×300×1345   | 595×300×1345   |
|                          | Net weight               | kg                                 | 25.5           | 26.5           | 25.5           | 26.5           |
|                          | Gross weight             | kg                                 | 32.5           | 33.5           | 32.5           | 33.5           |
| Water inlet/outlet pipe  |                          | inch                               | G3/4           | G3/4           | G3/4           | G3/4           |
| Drain pipe               |                          | mm                                 | ODΦ18.5        | ODΦ18.5        | ODΦ18.5        | ODΦ18.5        |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

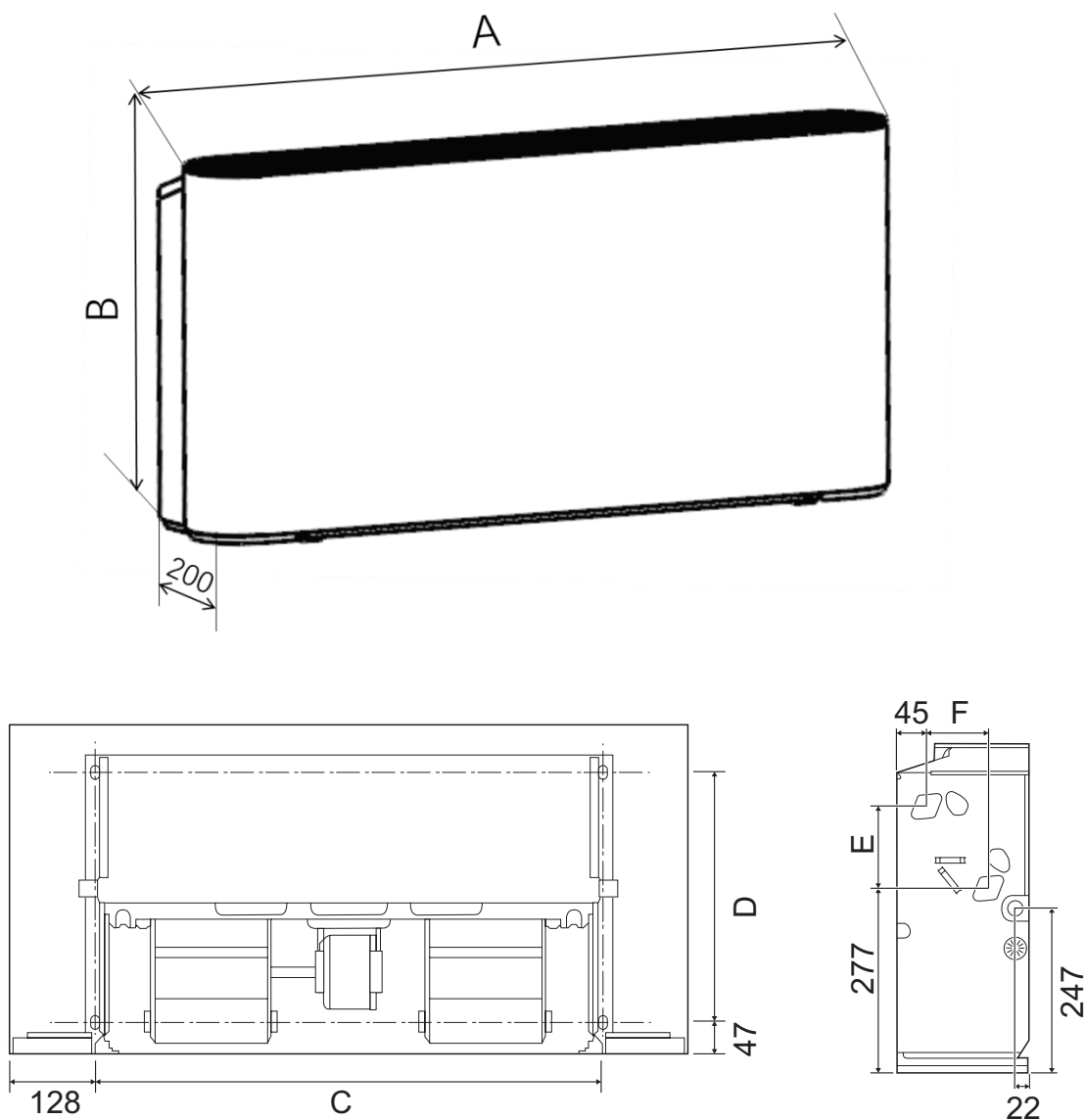
|                          |                          |                   |                                    |                |                |                |
|--------------------------|--------------------------|-------------------|------------------------------------|----------------|----------------|----------------|
| Model                    |                          |                   | (none)                             | (none)         | (none)         | (none)         |
| Power supply             |                          | V/Ph/Hz           | 220-240/1/50                       |                |                |                |
| Air flow (H/M/L)         |                          | m <sup>3</sup> /h | 1050/750/450                       | 1050/770/460   | 1150/850/570   | 1150/860/600   |
|                          |                          | CFM               | 618/441/265                        | 618/453/271    | 676/500/335    | 676/506/353    |
| External static pressure |                          | Pa                | 0                                  |                |                |                |
| Cooling                  | Sensible Capacity(H/M/L) | kW                | 4.08/3.17/2.14                     | 4.39/3.51/2.36 | 4.75/4.00/2.91 | 5.41/4.26/3.02 |
|                          | Capacity (H/M/L)         | kW                | 4.94/3.94/2.77                     | 5.60/4.58/3.19 | 6.21/5.17/3.86 | 7.30/5.88/4.28 |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.85/0.68/0.47                     | 0.96/0.79/0.55 | 1.06/0.89/0.66 | 1.25/1.01/0.73 |
|                          | Water pressure drop      | kPa               | 44.7/29.5/15.6                     | 28.9/19.2/10.1 | 37.3/28.5/16.4 | 63.0/40.8/22.5 |
| Heating                  | Capacity (H/M/L)         | kW                | 5.29/4.20/2.96                     | 6.22/4.95/3.37 | 6.80/5.46/3.98 | 7.70/6.02/4.29 |
|                          | Water flow rate          | m <sup>3</sup> /h | 0.91/0.72/0.51                     | 1.07/0.85/0.58 | 1.17/0.94/0.68 | 1.32/1.03/0.74 |
|                          | Water pressure drop      | kPa               | 49.0/33.2/17.0                     | 33.2/22.5/11.0 | 39.7/27.0/15.4 | 55.0/36.4/19.2 |
| Power input (H/M/L)      |                          | W                 | 98/45/18                           | 99/50/20       | 105/50/24      | 105/50/23      |
| Rated current            |                          | A                 | 0.85                               | 0.85           | 0.9            | 0.9            |
| Sound pressure level     | (H/M/L)                  | dB(A)             | 52/43/32                           | 52/42/33       | 53/46/36       | 53/46/36       |
| Sound power level        | (H/M/L)                  | dB(A)             | 65/57/45                           | 65/56/46       | 66/59/49       | 65/59/49       |
| Fan motor                | Type                     |                   | Low noise DC fan motor             |                |                |                |
|                          | Quantity                 |                   | 1                                  | 1              | 1              | 1              |
| Fan                      | Type                     |                   | Centrifugal, forward-curved Blades |                |                |                |
|                          | Quantity                 |                   | 3                                  | 3              | 3              | 3              |
| Coil                     | Row                      |                   | 3                                  | 4              | 3              | 4              |
|                          | Max. working pressure    | MPa               | 1.6                                | 1.6            | 1.6            | 1.6            |
|                          | Diameter                 | mm                | Φ7.94                              | Φ7.94          | Φ7.94          | Φ7.94          |
| Body                     | Net dimensions (W×D×H)   |                   | mm                                 | 495×211×1360   | 495×211×1360   | 591×211×1360   |
|                          | Packing size (W×D×H)     |                   | mm                                 | 595×300×1465   | 595×300×1465   | 695×300×1465   |
|                          | Net weight               |                   | kg                                 | 28.5           | 29.5           | 32.5           |
|                          | Gross weight             |                   | kg                                 | 36.0           | 37.0           | 41.0           |
| Water inlet/outlet pipe  |                          | inch              | G3/4                               | G3/4           | G3/4           | G3/4           |
| Drain pipe               |                          | mm                | ODΦ18.5                            | ODΦ18.5        | ODΦ18.5        | ODΦ18.5        |

## Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

## 8. Dimensions

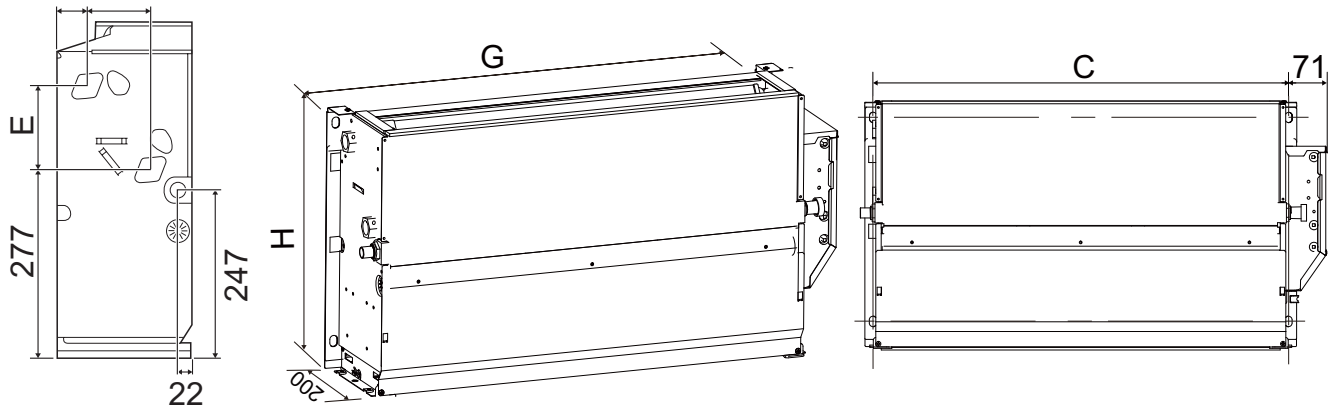
### Cased type (CE)



Dimensions (unit: mm)

| MODEL | MUC-05-W9 | MUC-08-W9 | MUC-11-W9 | MUC-16-W9 | MUC-19-W9 | MUC-24-W9 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| A     | 790       | 1020      | 1240      | 1240      | 1360      | 1360      |
| B     | 495       | 495       | 495       | 495       | 495       | 591       |
| C     | 534       | 764       | 984       | 984       | 1104      | 1104      |
| D     | 375       | 375       | 375       | 375       | 375       | 391       |
| E     | 123       | 123       | 123       | 123       | 123       | 219       |
| F     | 93        | 93        | 93        | 93        | 93        | 102       |
| G     | 628       | 858       | 1078      | 1078      | 1198      | 1198      |
| H     | 455       | 455       | 455       | 455       | 455       | 551       |

## Uncased type (SE)

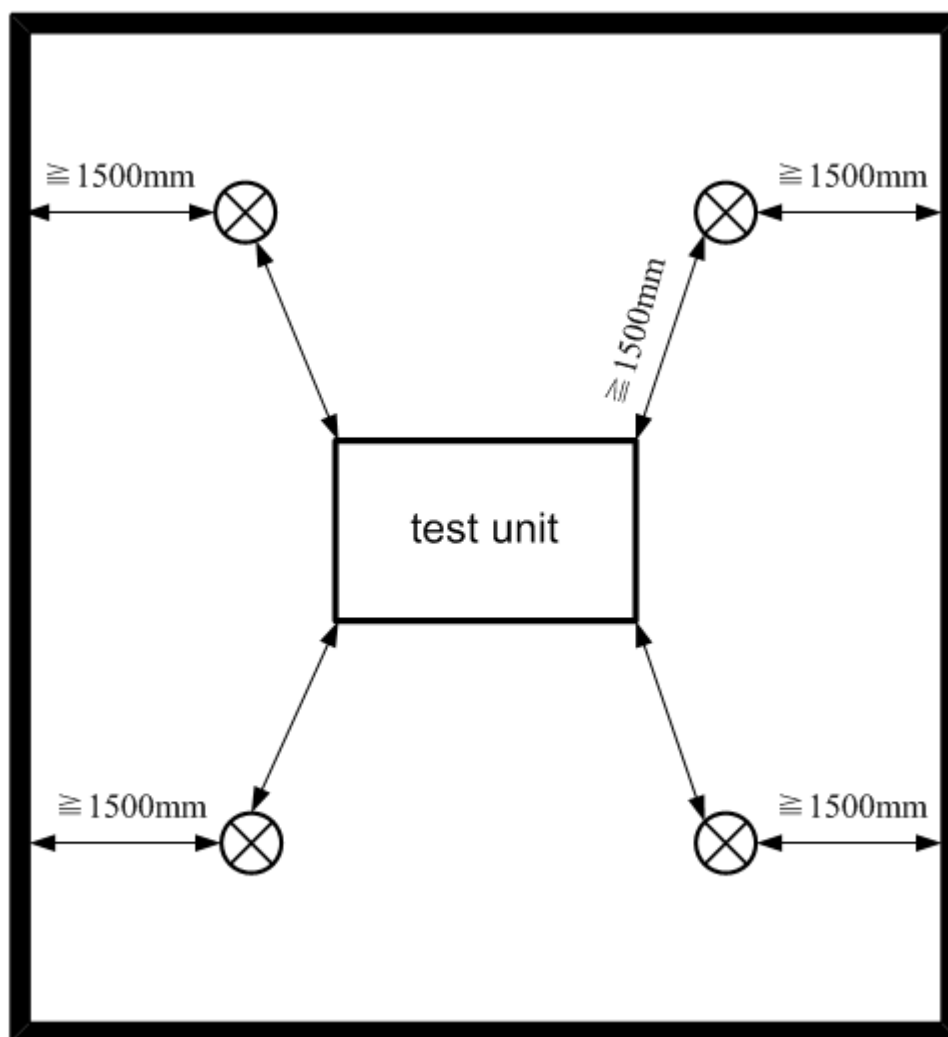


Dimensions (unit: mm)

| MODEL | MUC-05-W9 | MUC-08-W9 | MUC-11-W9 | MUC-16-W9 | MUC-19-W9 | MUC-24-W9 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| A     | 790       | 1020      | 1240      | 1240      | 1360      | 1360      |
| B     | 495       | 495       | 495       | 495       | 495       | 591       |
| C     | 534       | 764       | 984       | 984       | 1104      | 1104      |
| D     | 375       | 375       | 375       | 375       | 375       | 391       |
| E     | 123       | 123       | 123       | 123       | 123       | 219       |
| F     | 93        | 93        | 93        | 93        | 93        | 102       |
| G     | 628       | 858       | 1078      | 1078      | 1198      | 1198      |
| H     | 455       | 455       | 455       | 455       | 455       | 551       |

## 9. Sound Levels

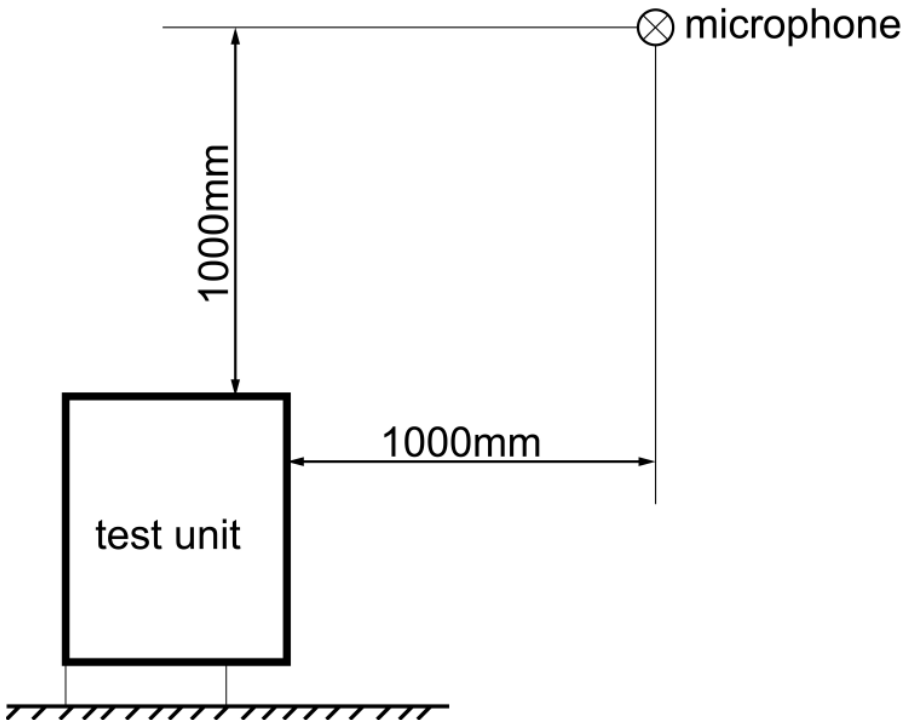
Sound Power Level:



| Model         | MUC-05   | MUC-08   | MUC-11   | MUC-16   | MUC-19   | MUC-24   |
|---------------|----------|----------|----------|----------|----------|----------|
| W9/CE (H/M/L) | 47/36/34 | 43/37/29 | 52/44/36 | 59/51/36 | 64/56/45 | 63/58/49 |
| W9/SE (H/M/L) | 47/36/34 | 43/37/29 | 52/44/36 | 59/51/36 | 64/56/45 | 63/58/49 |

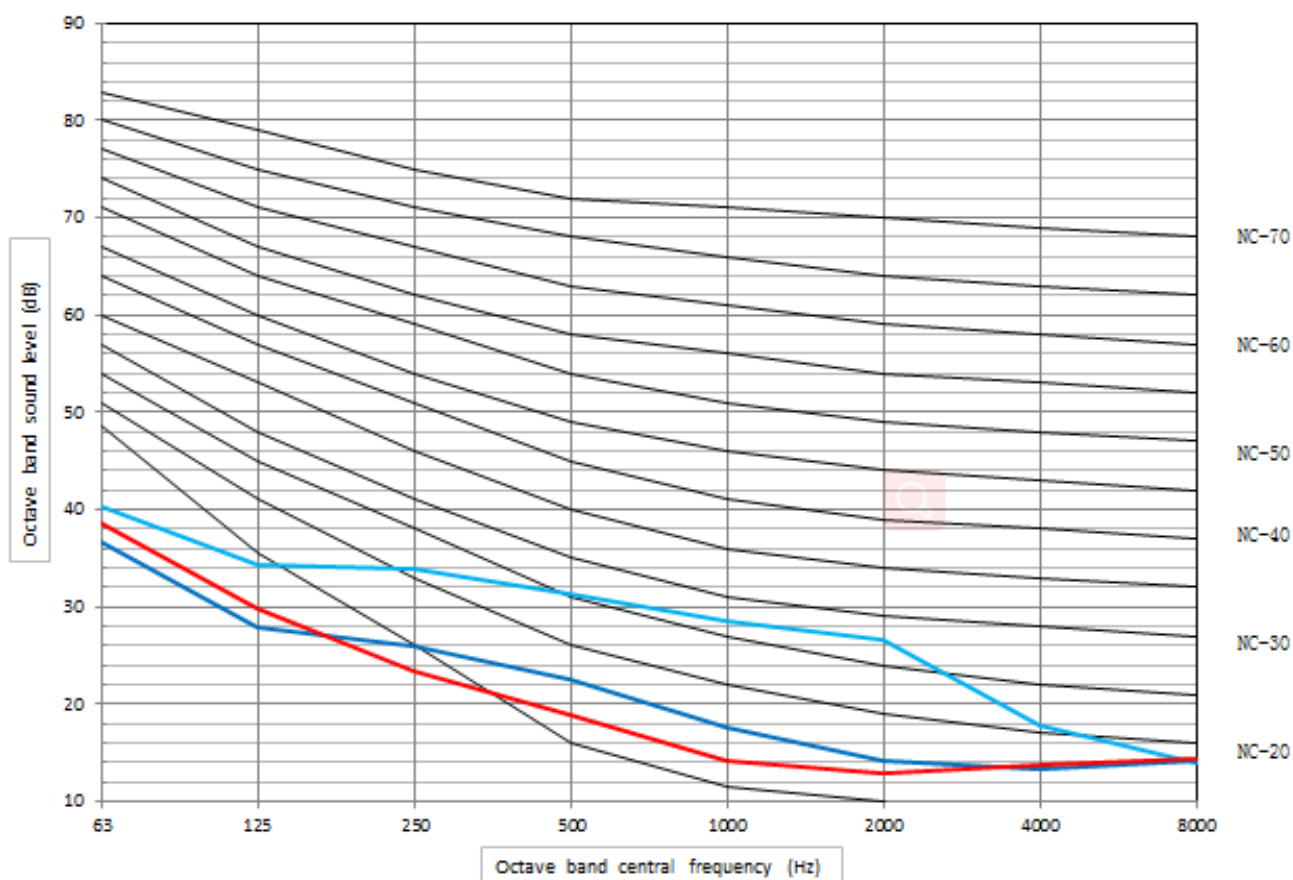


Sound Pressure Level:

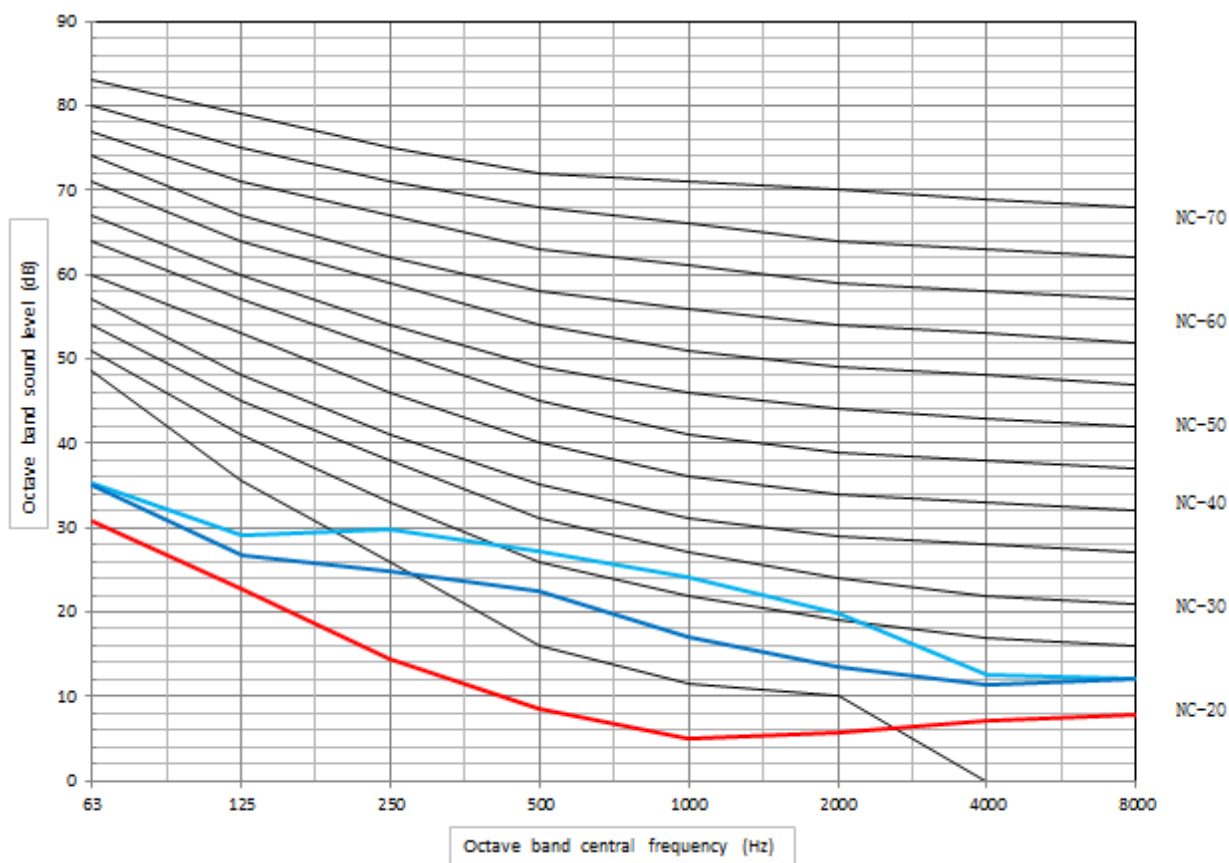


| Model         | MUC-05   | MUC-08   | MUC-11   | MUC-16   | MUC-19   | MUC-24   |
|---------------|----------|----------|----------|----------|----------|----------|
| W9/CE (H/M/L) | 34/24/21 | 29/24/18 | 38/32/23 | 46/38/30 | 50/42/31 | 51/44/33 |
| W9/SE (H/M/L) | 34/24/21 | 29/24/18 | 38/32/23 | 46/38/30 | 50/42/31 | 51/44/33 |

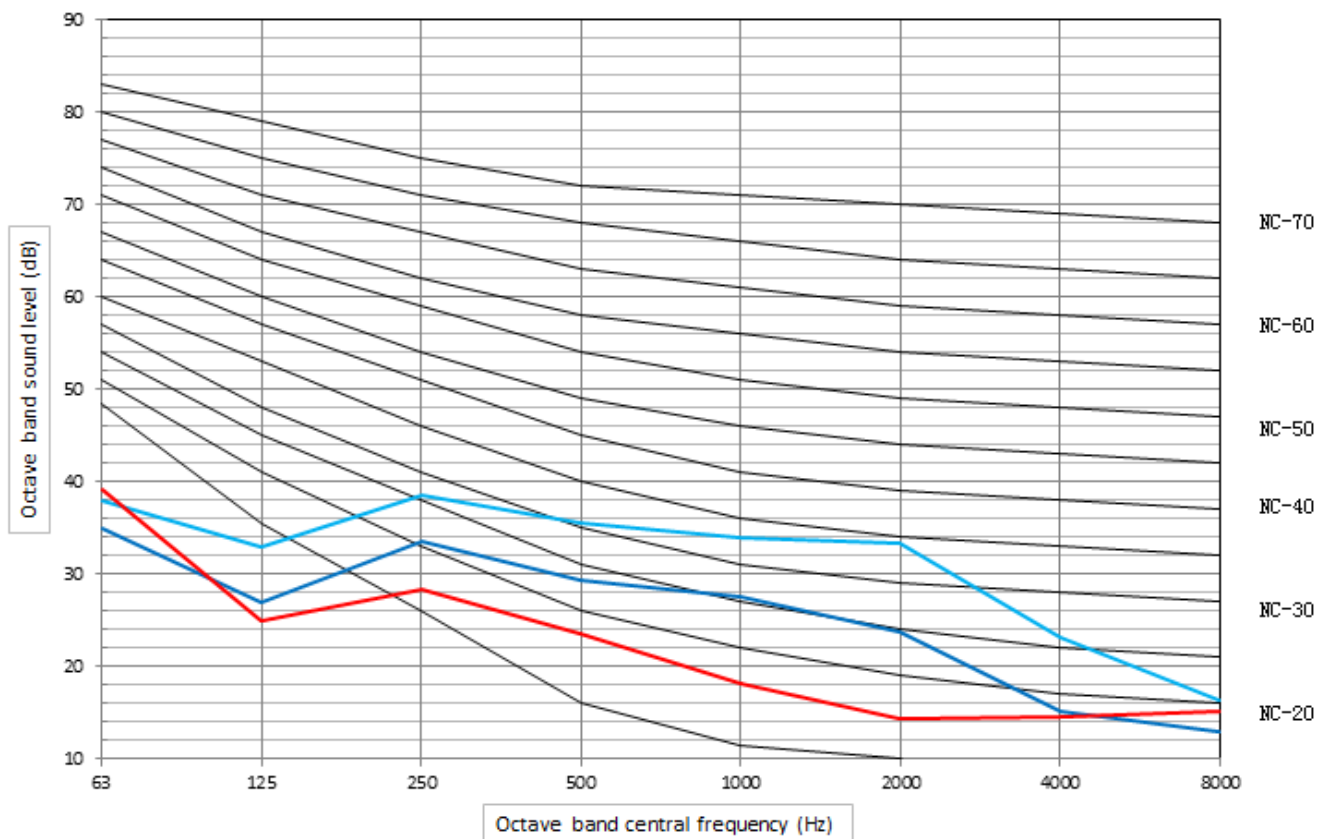
**NC Noise Curve:**  
(none)



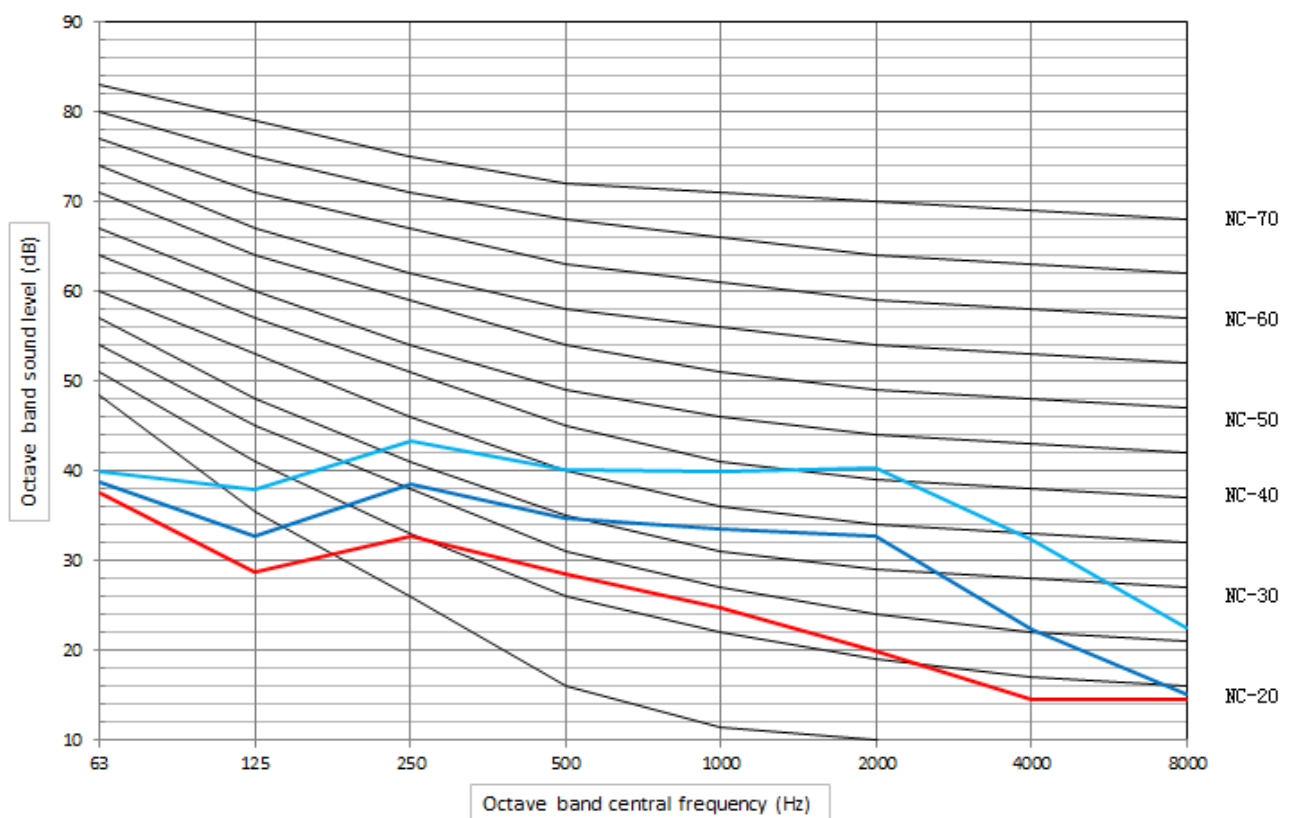
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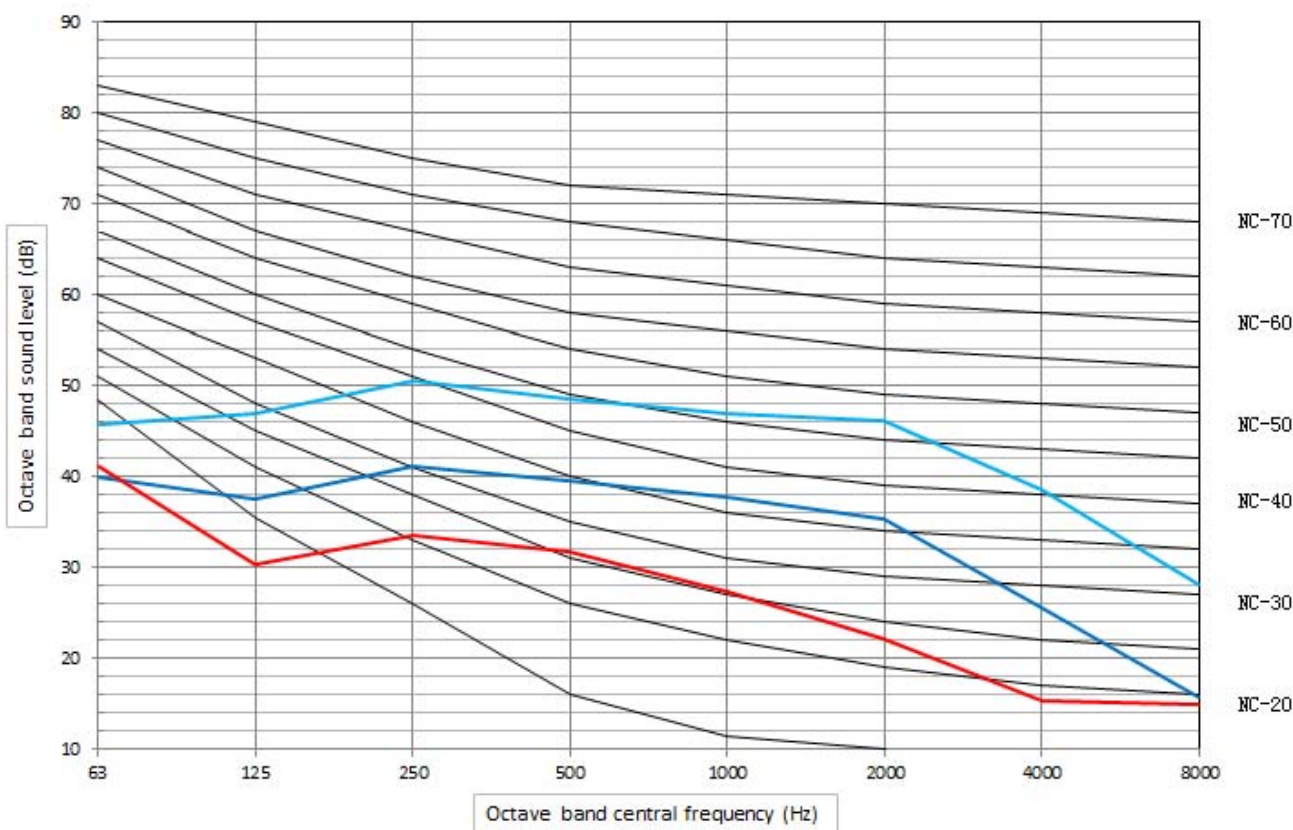
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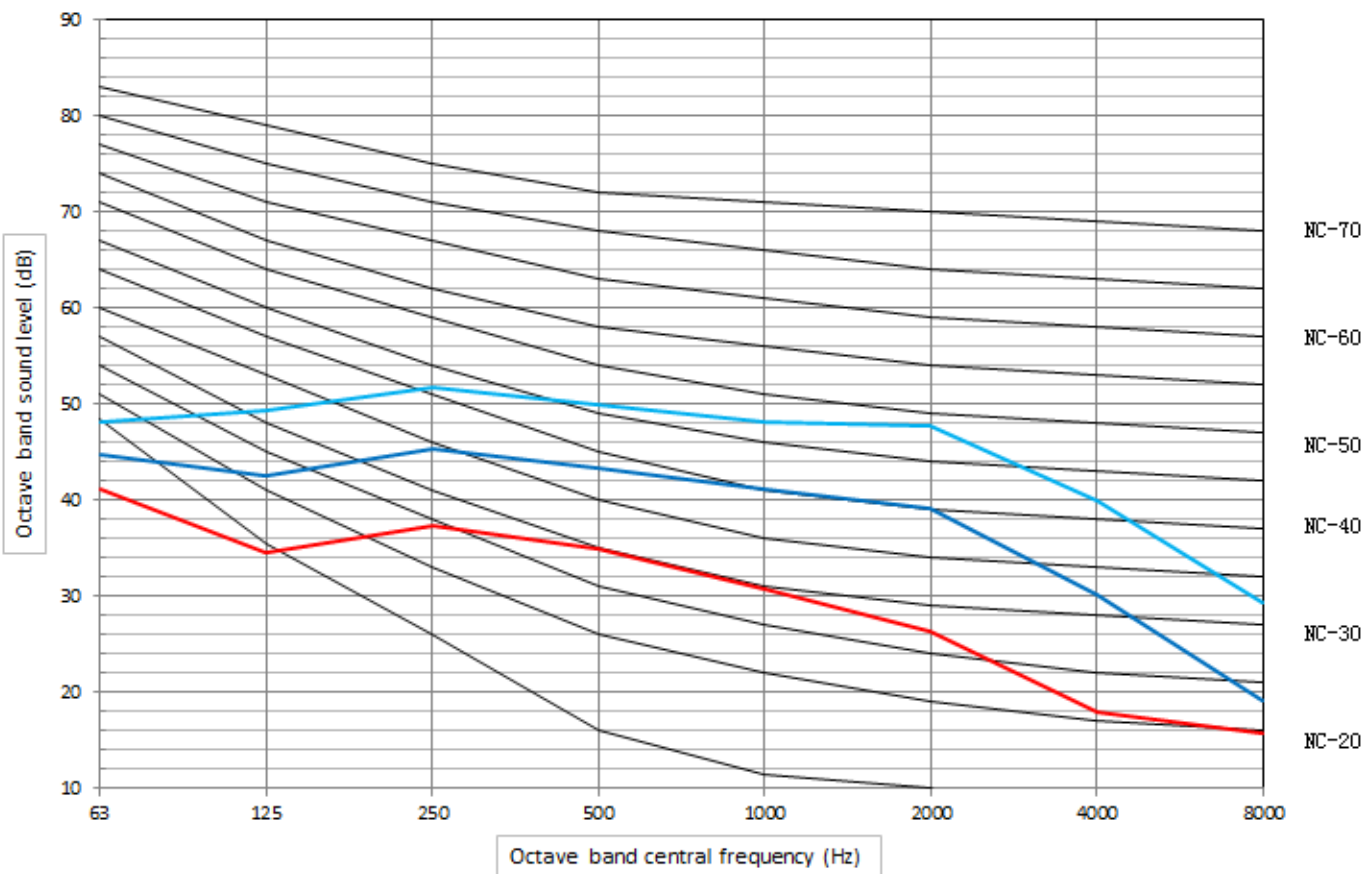
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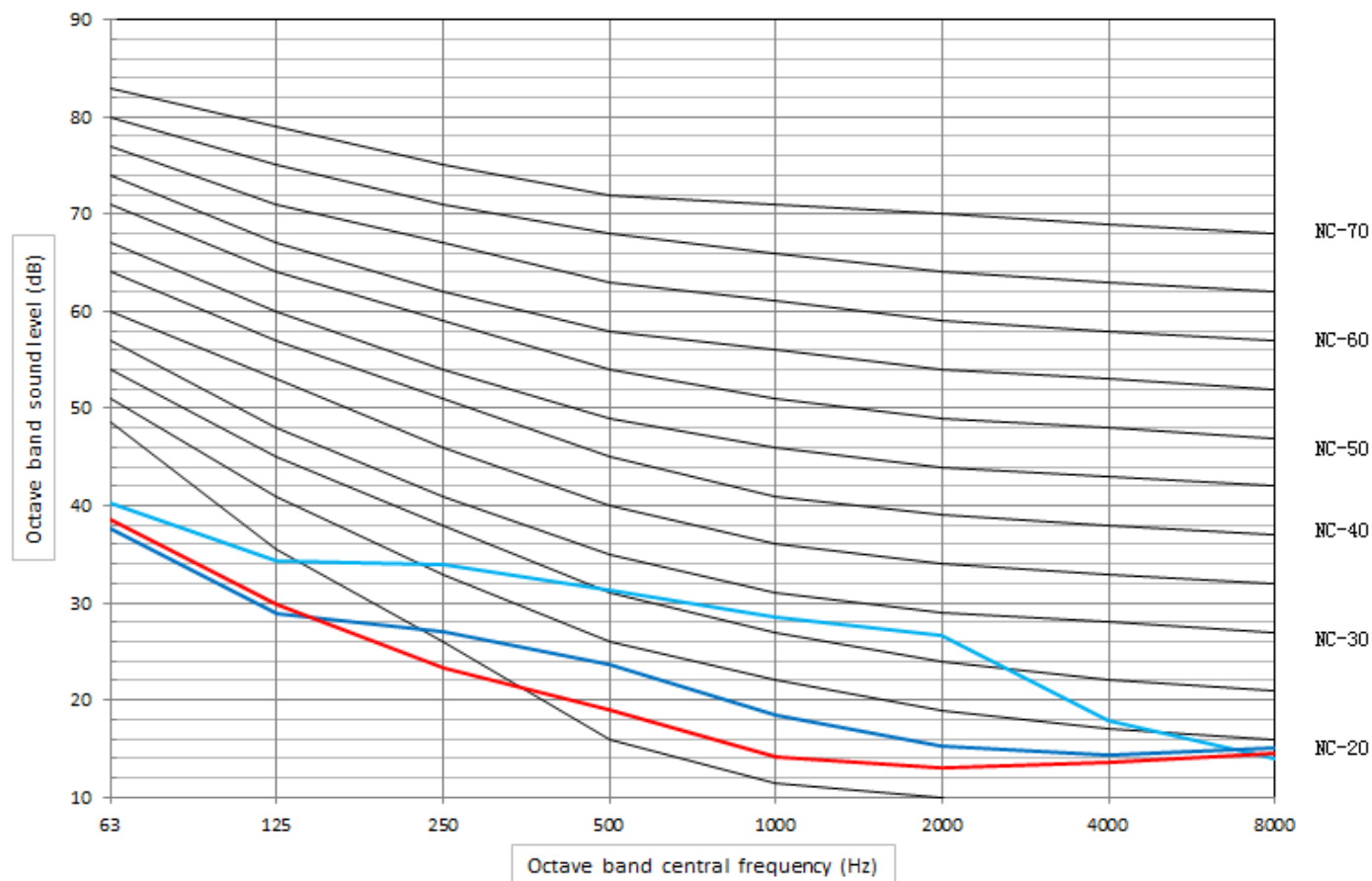
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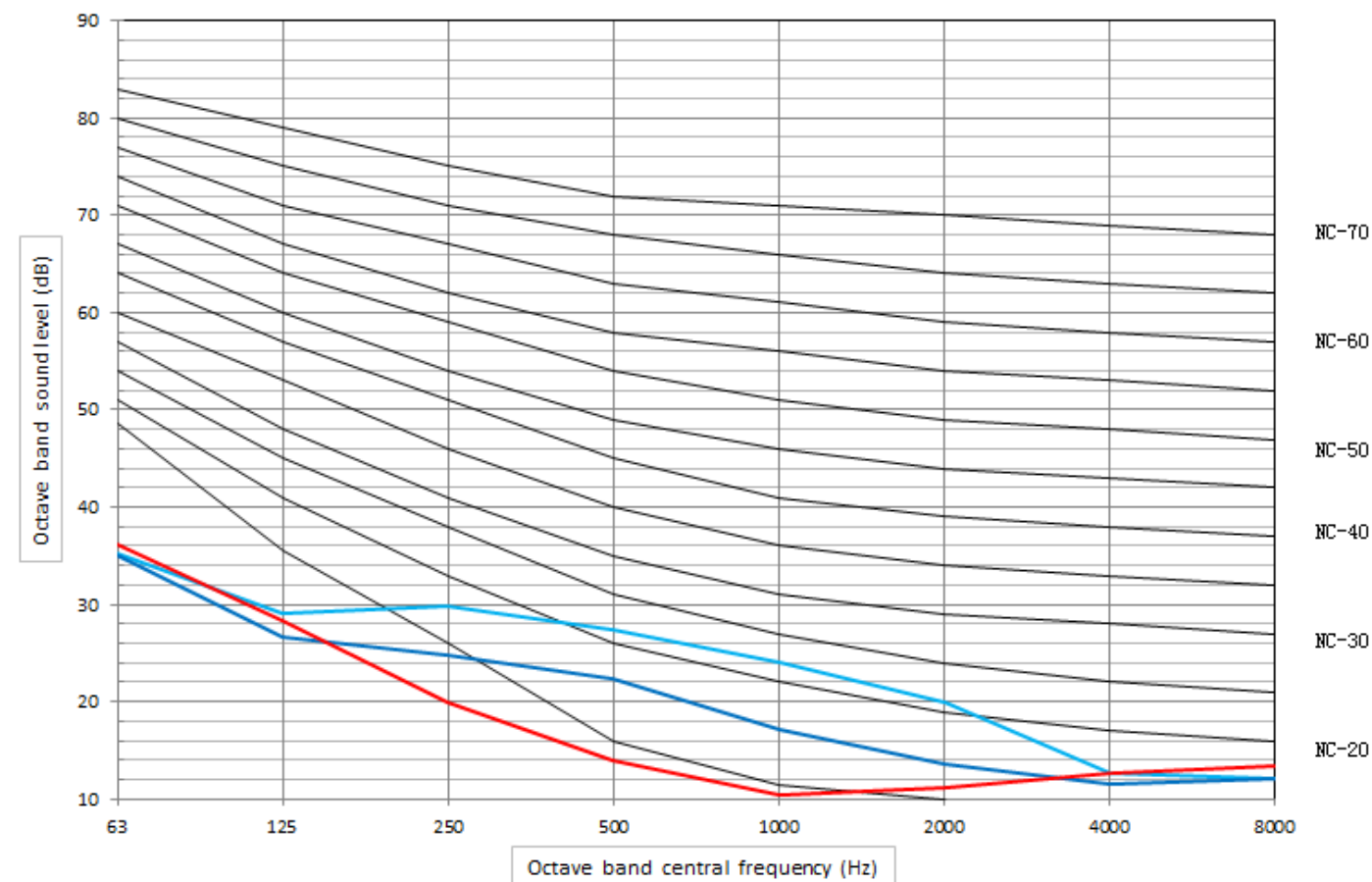
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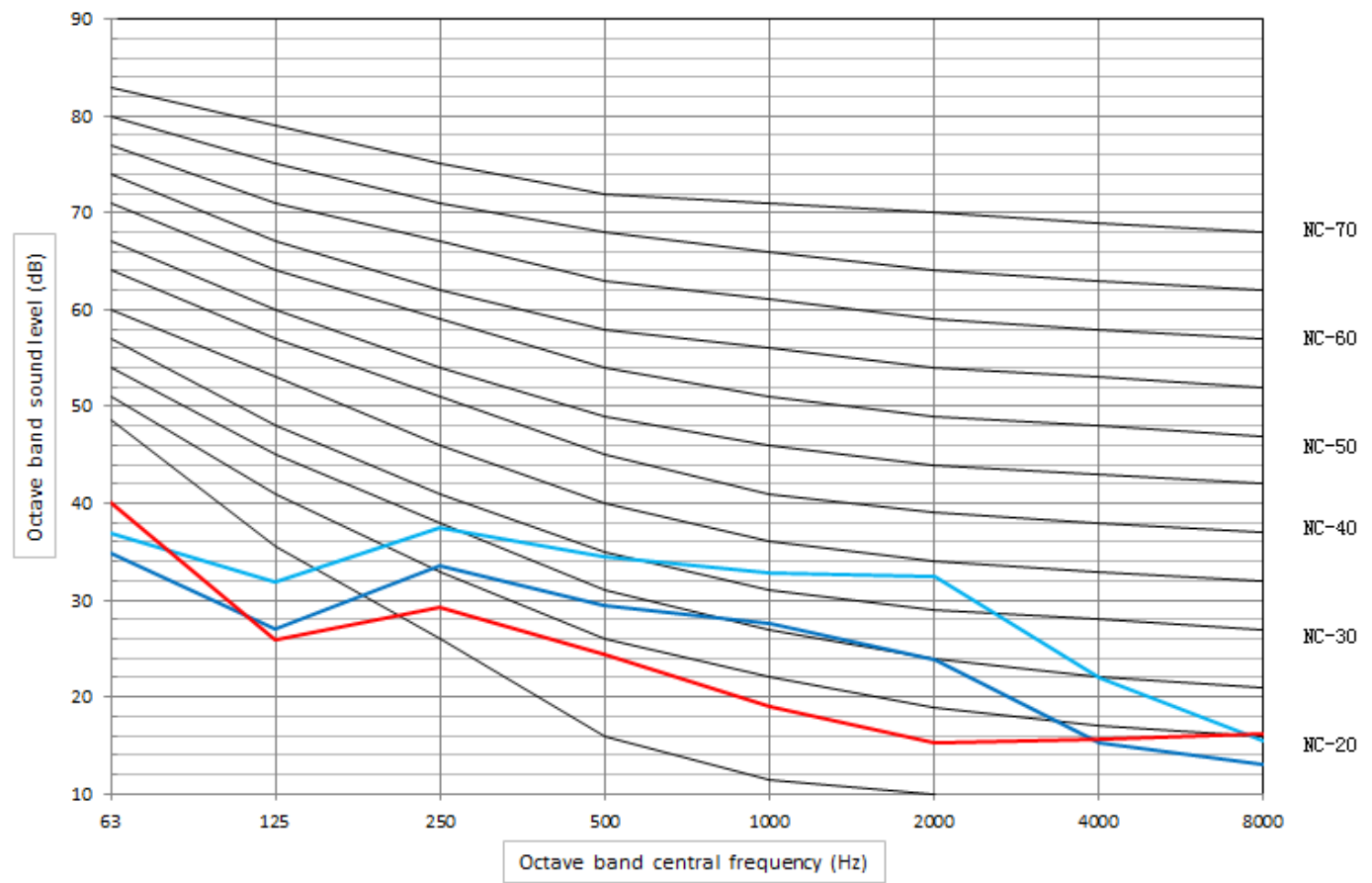
**MUC-05-W9**



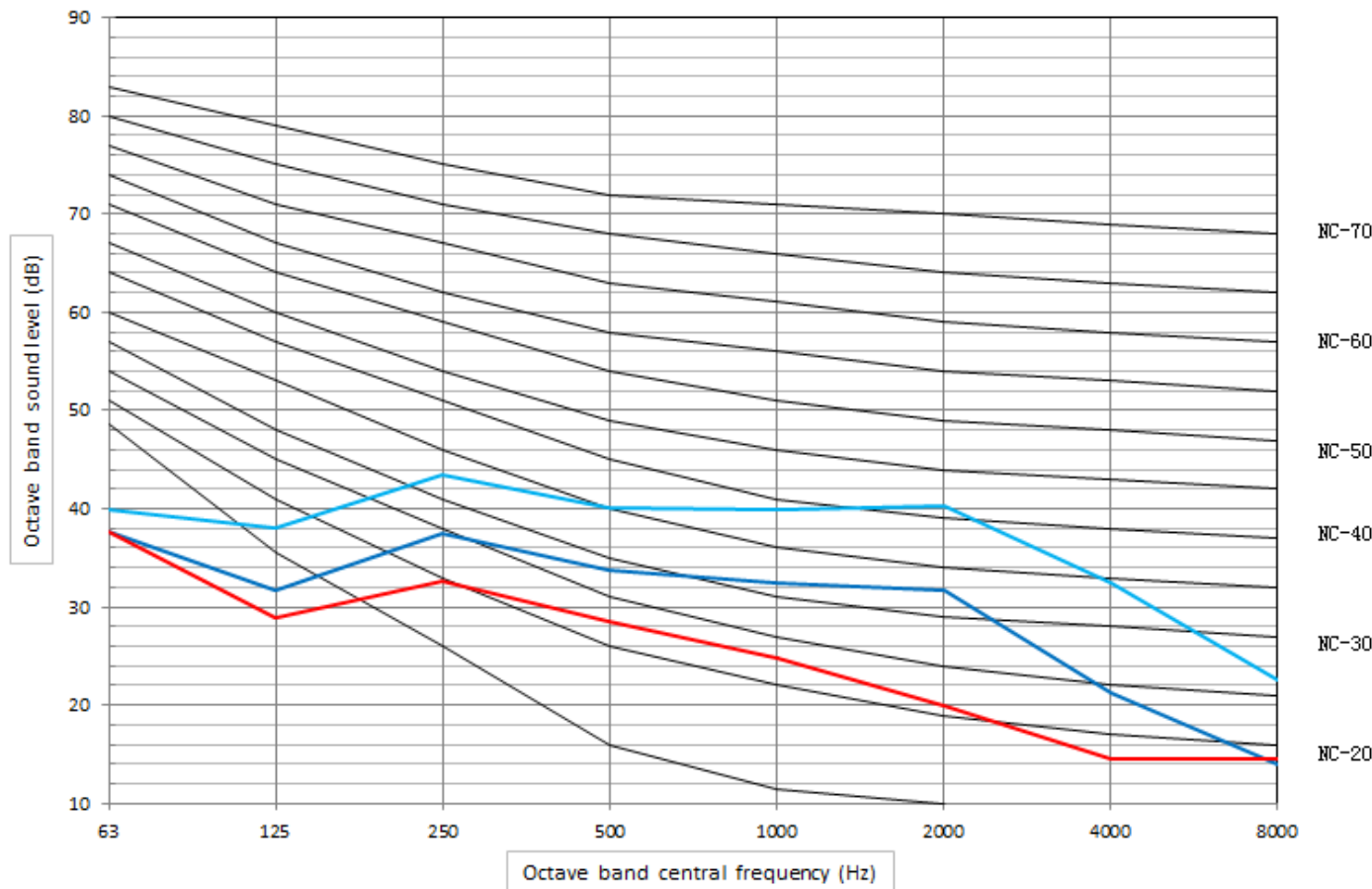
**MUC-08-W9**



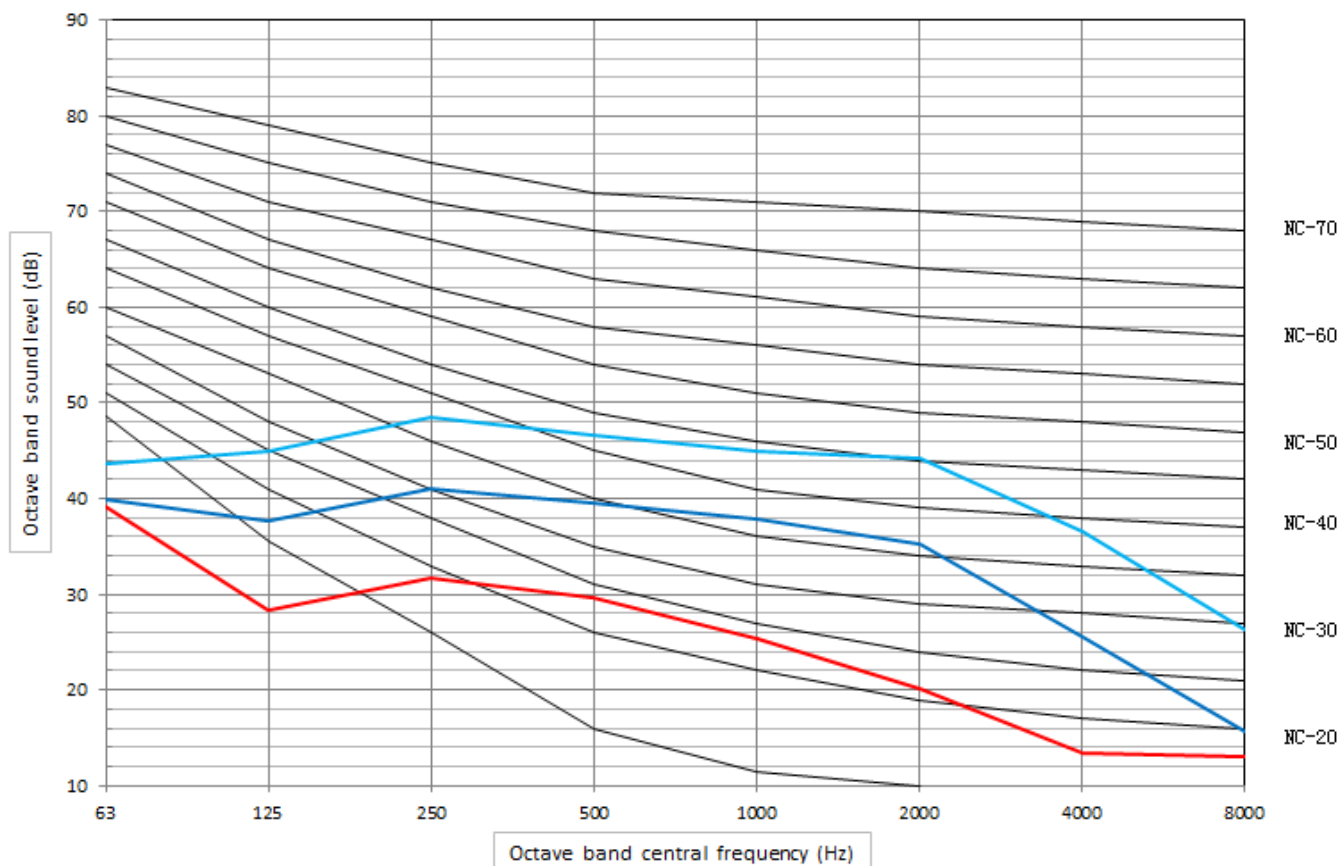
MUC-11-W9



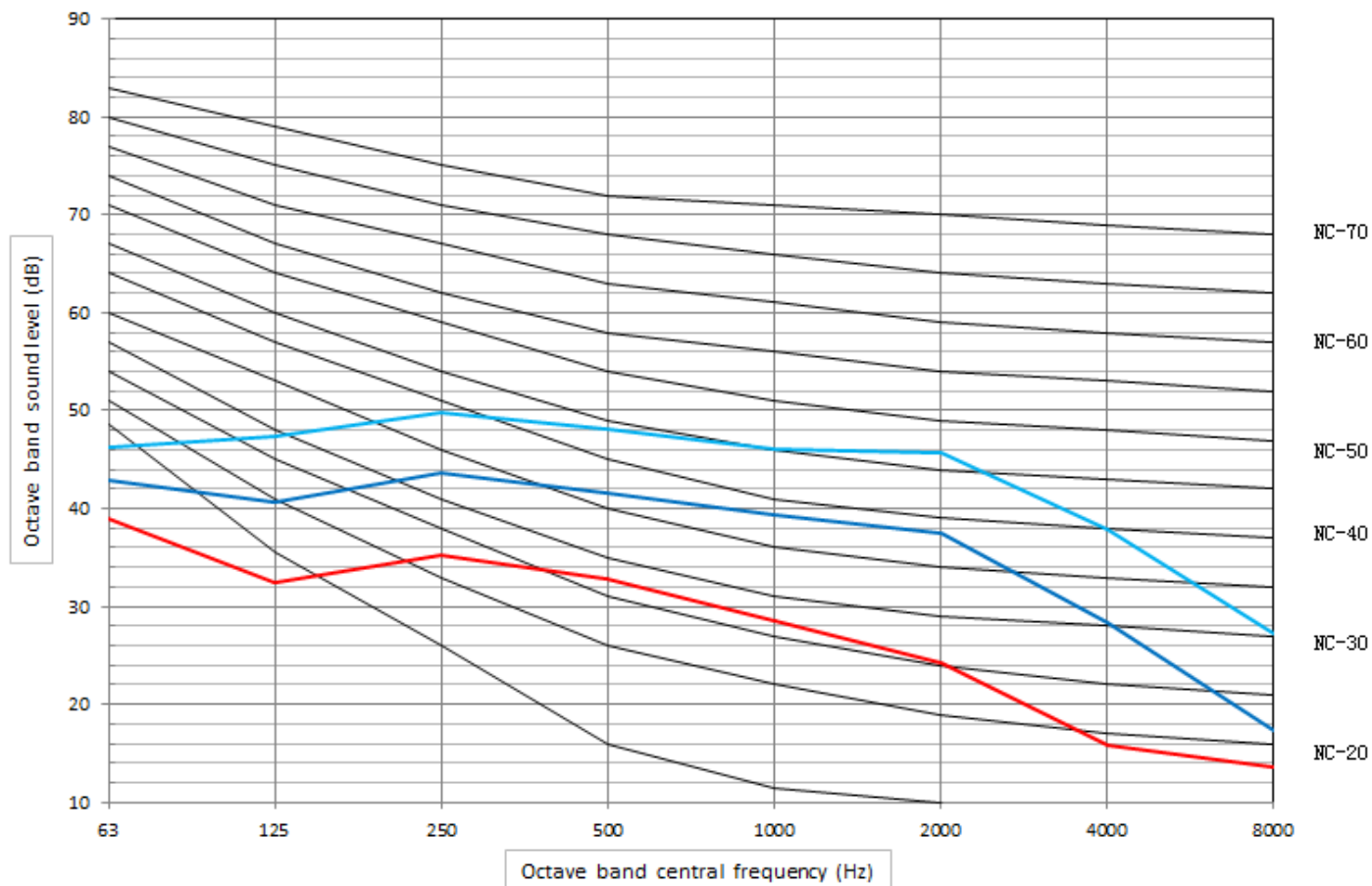
MUC-16-W9



MUC-19-W9

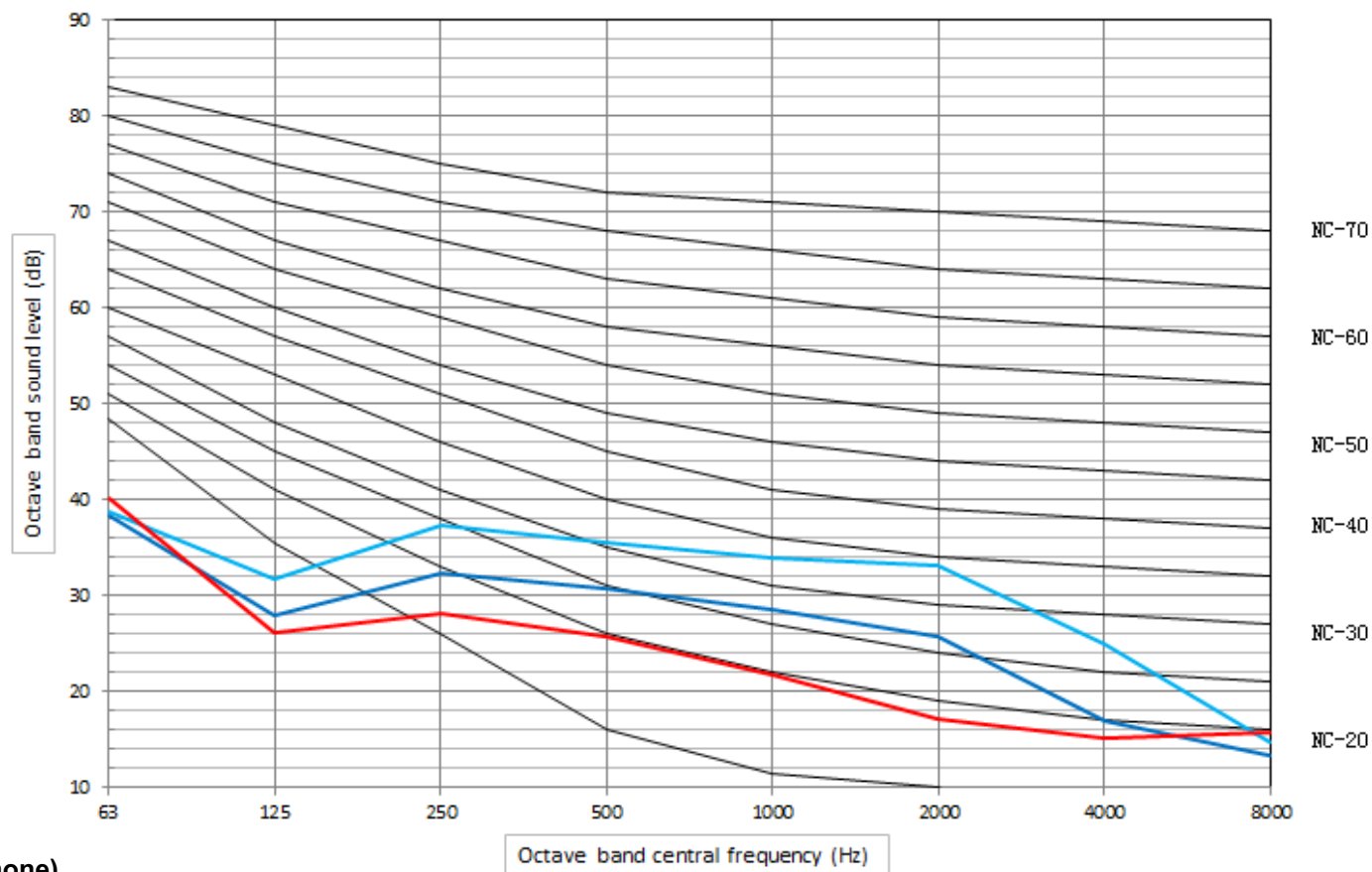


MUC-24-W9

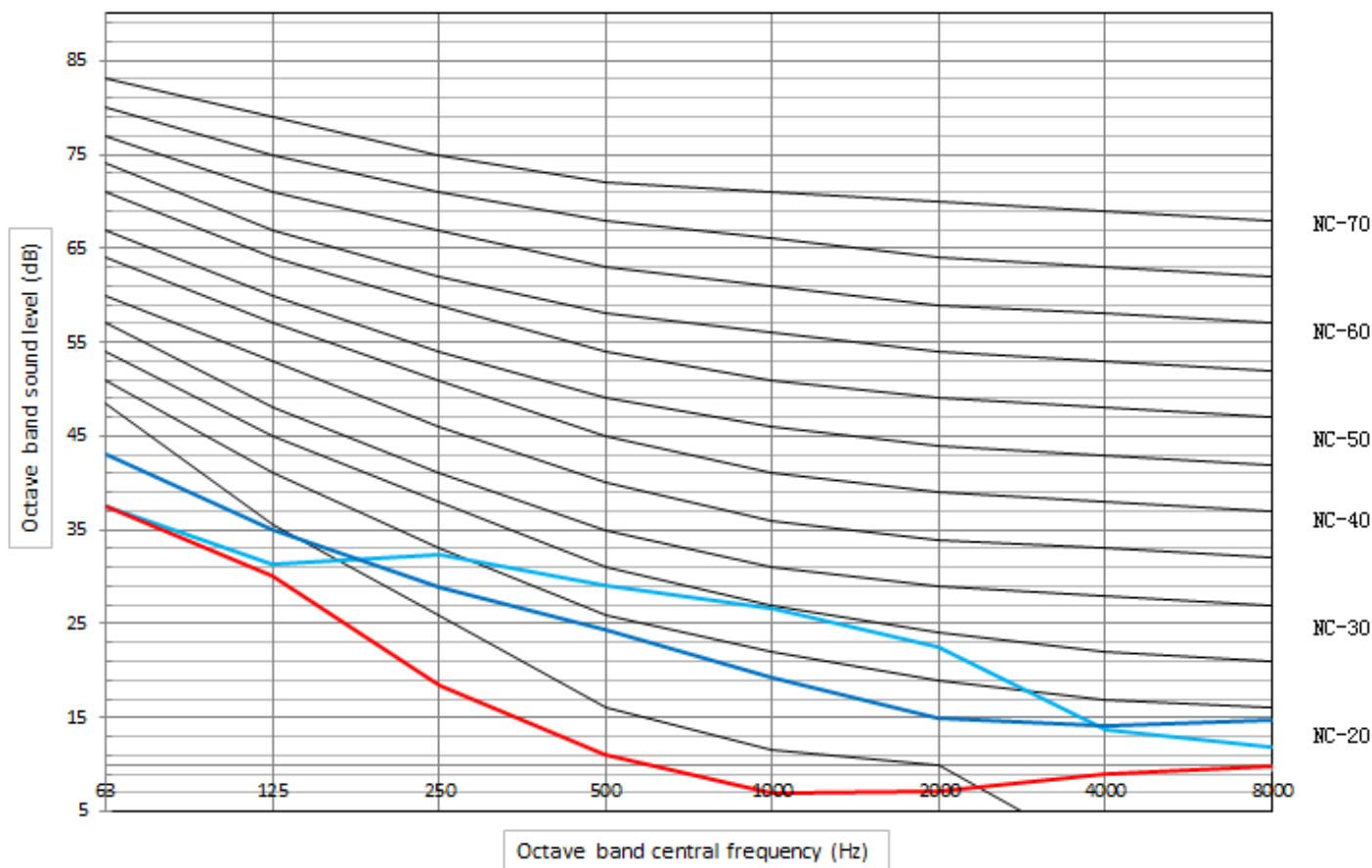




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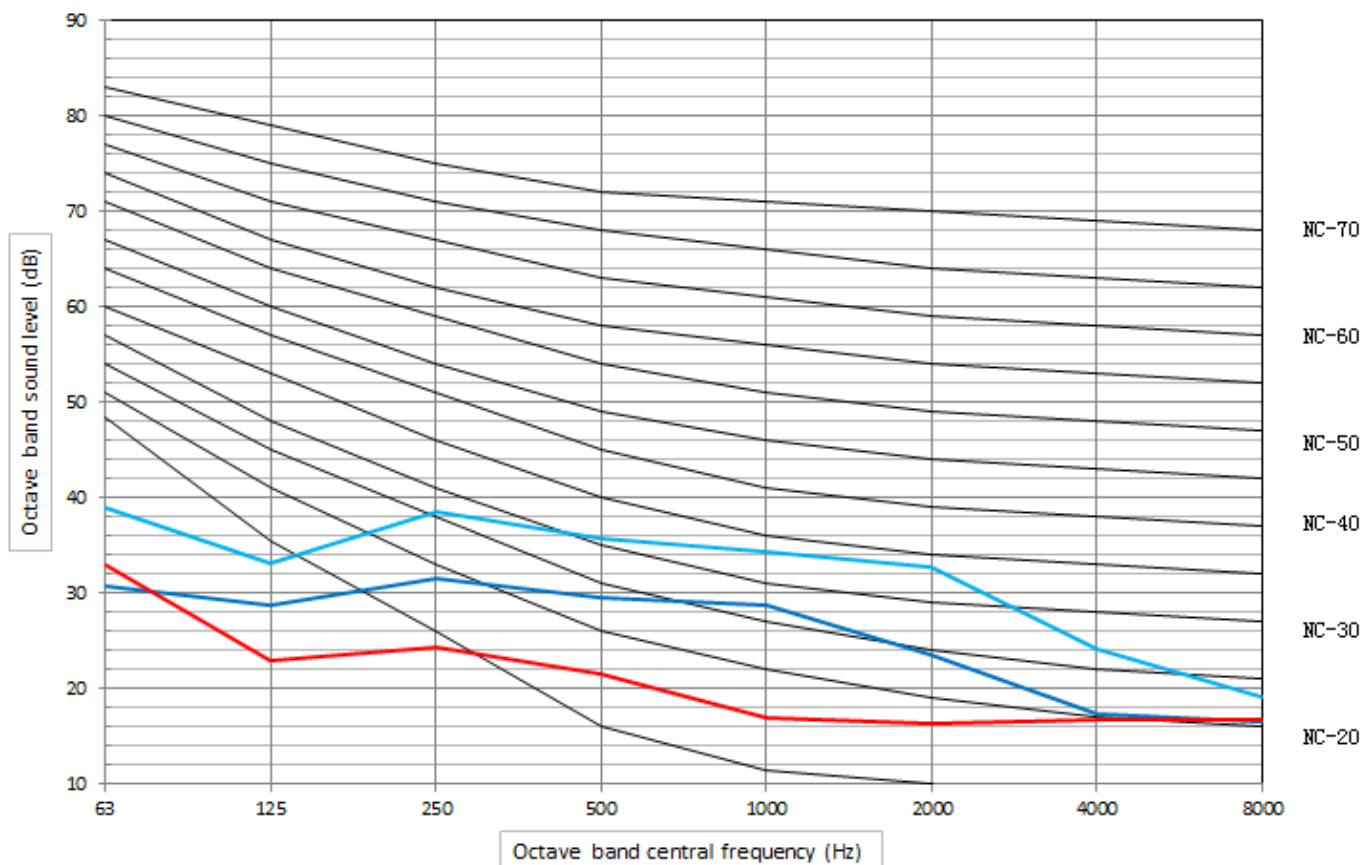


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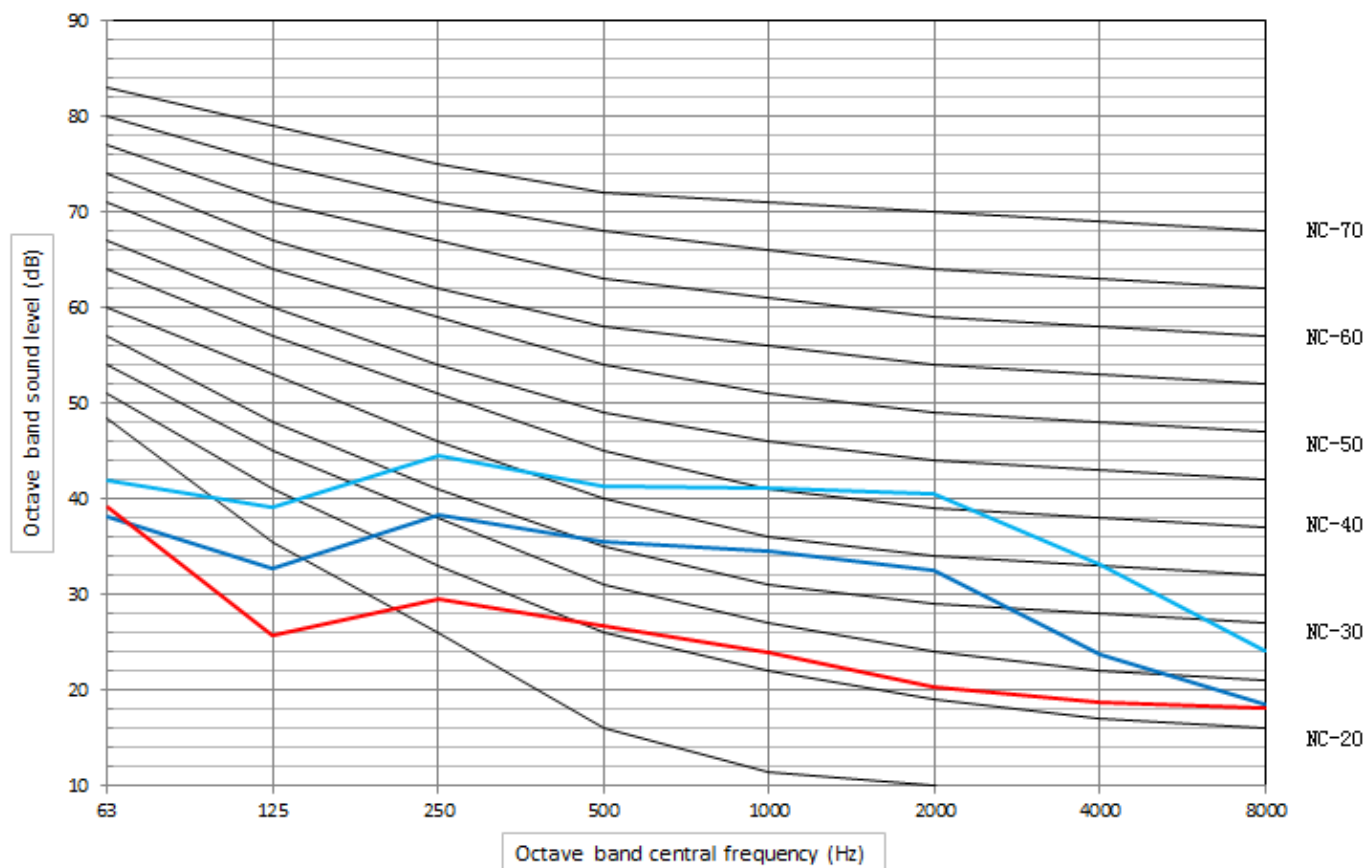




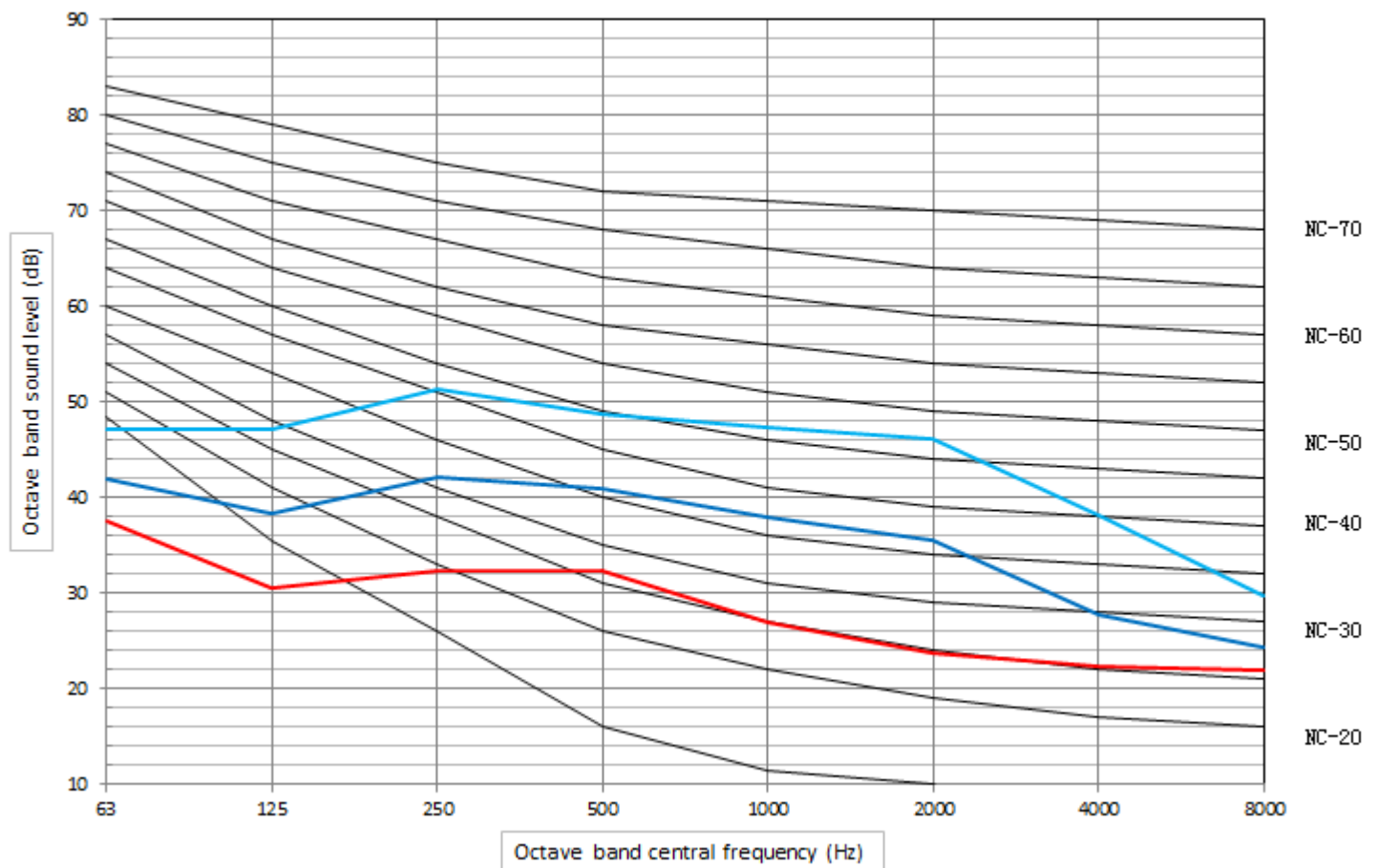
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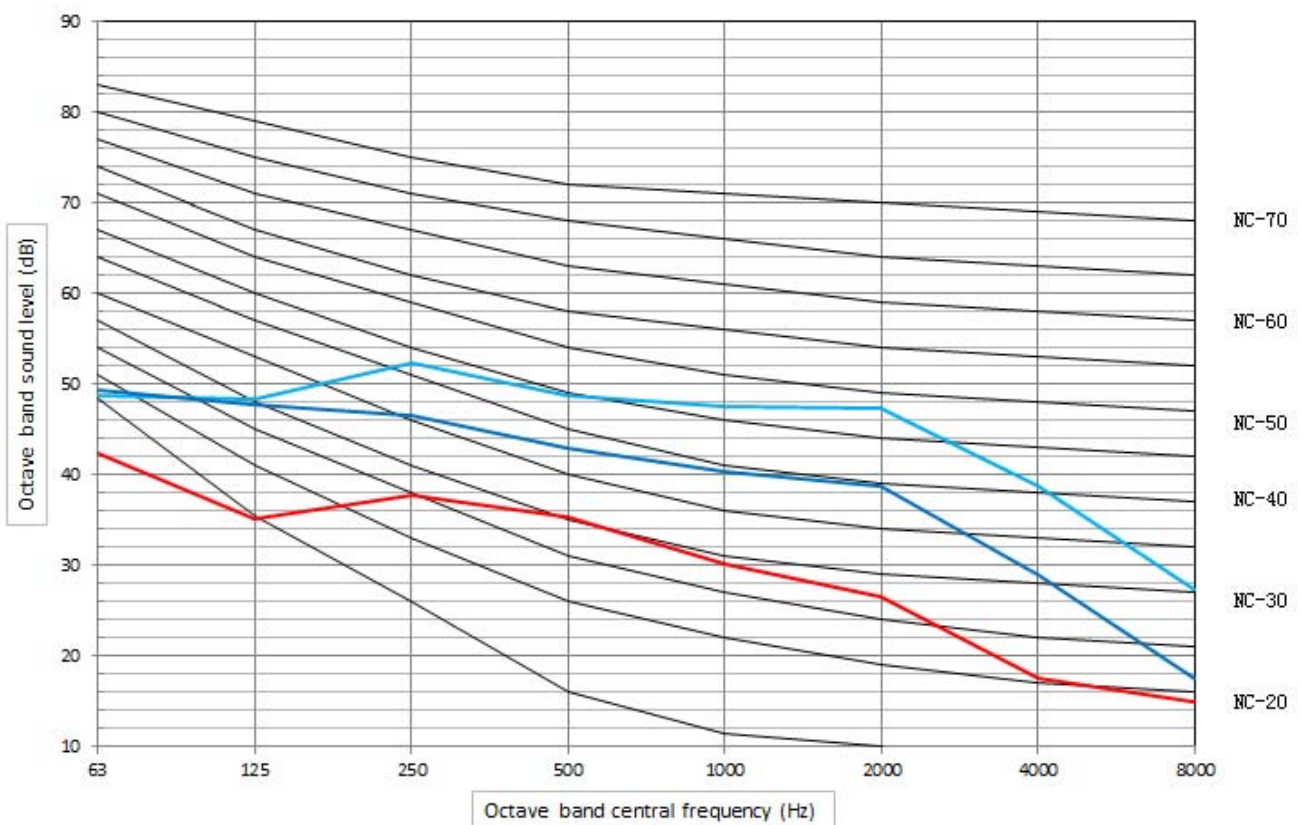
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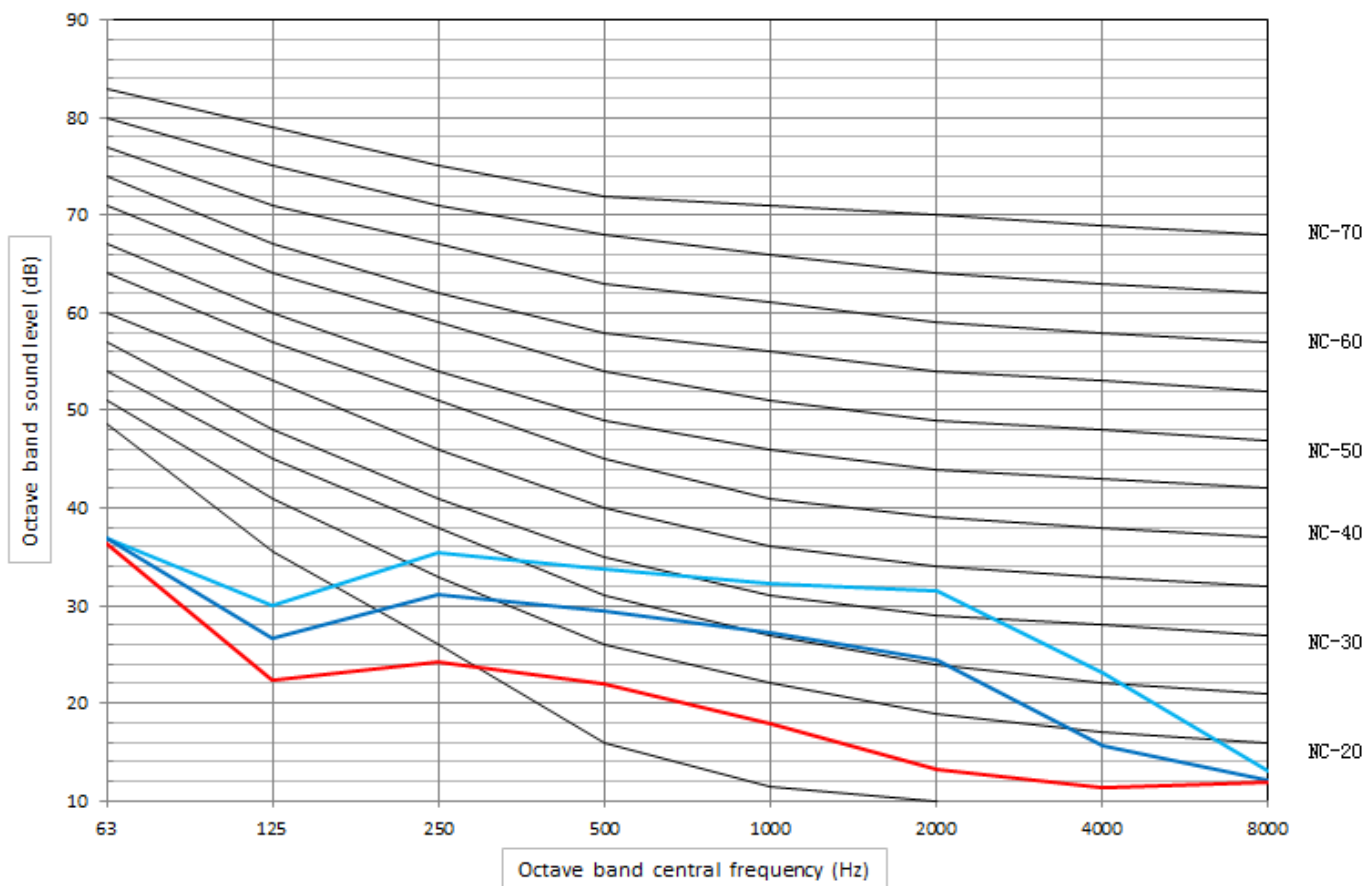
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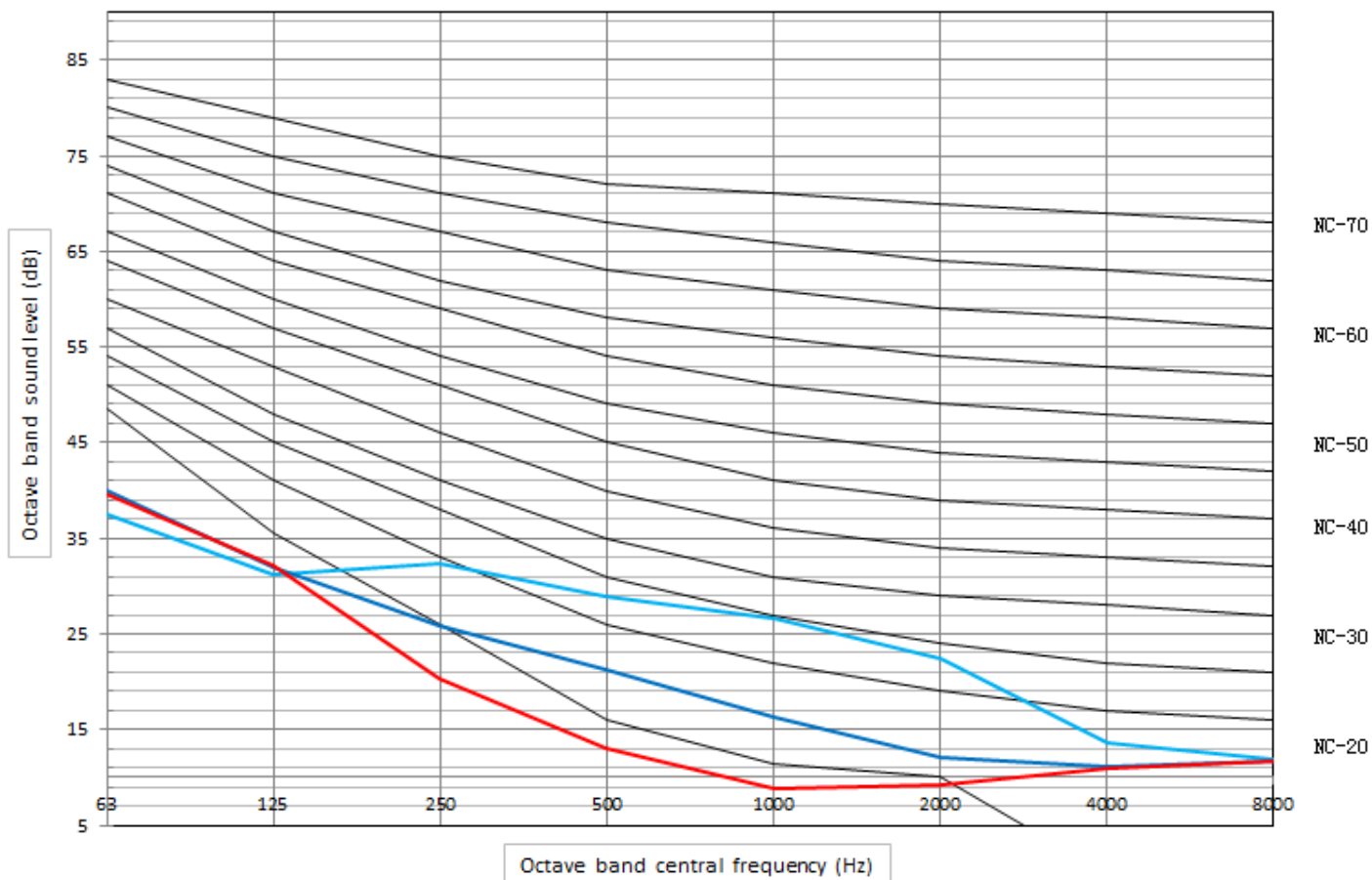
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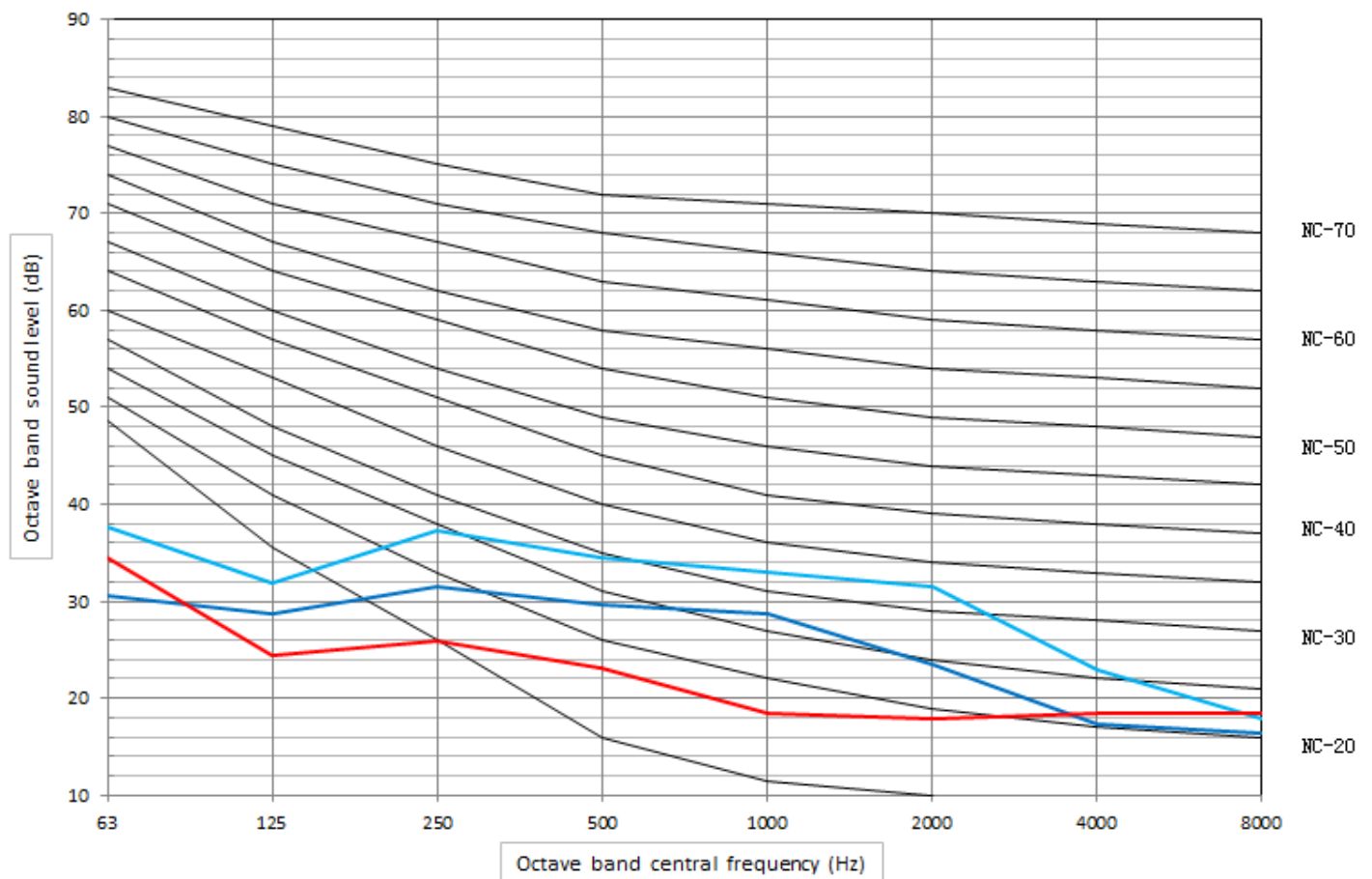
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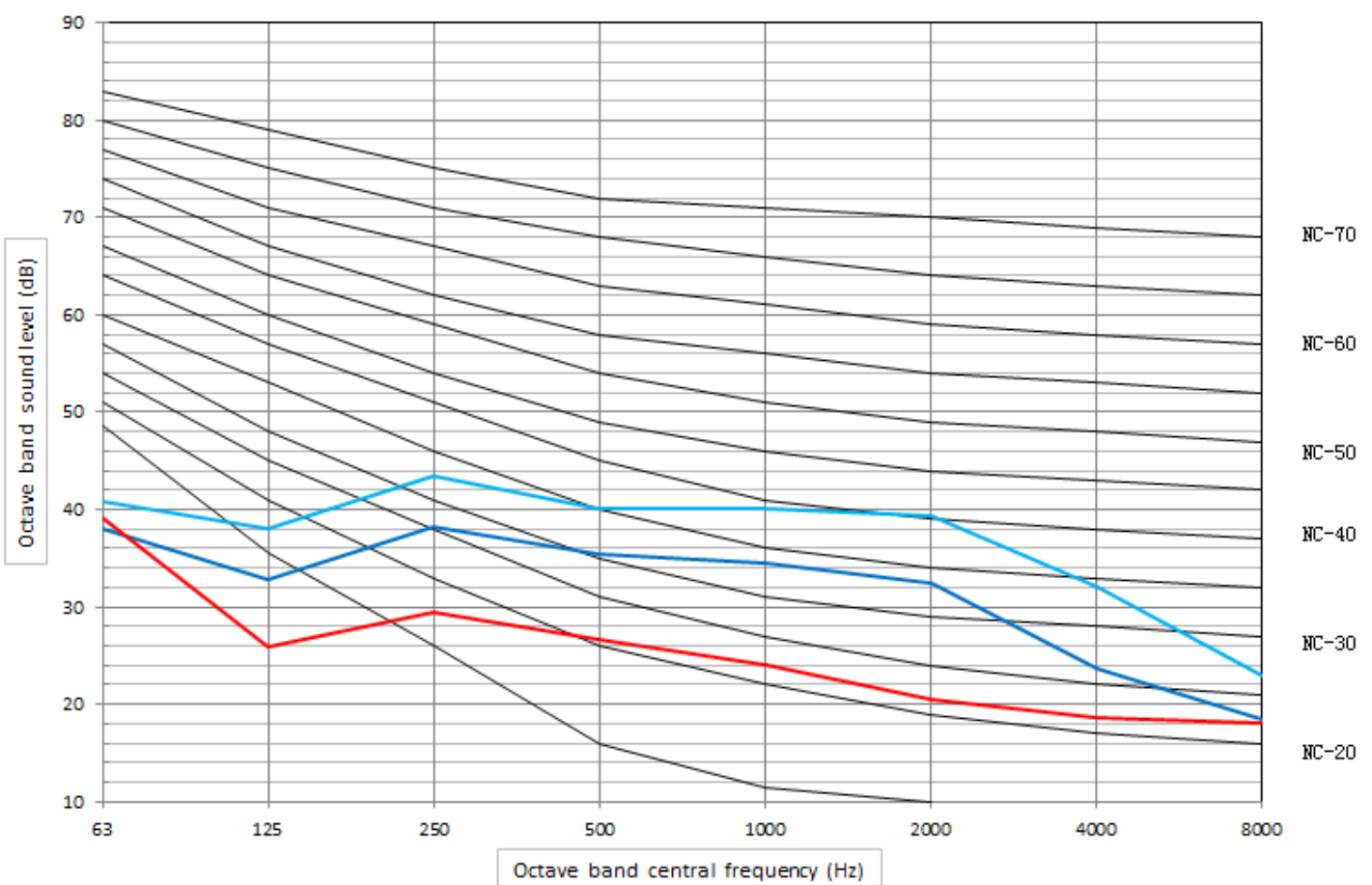
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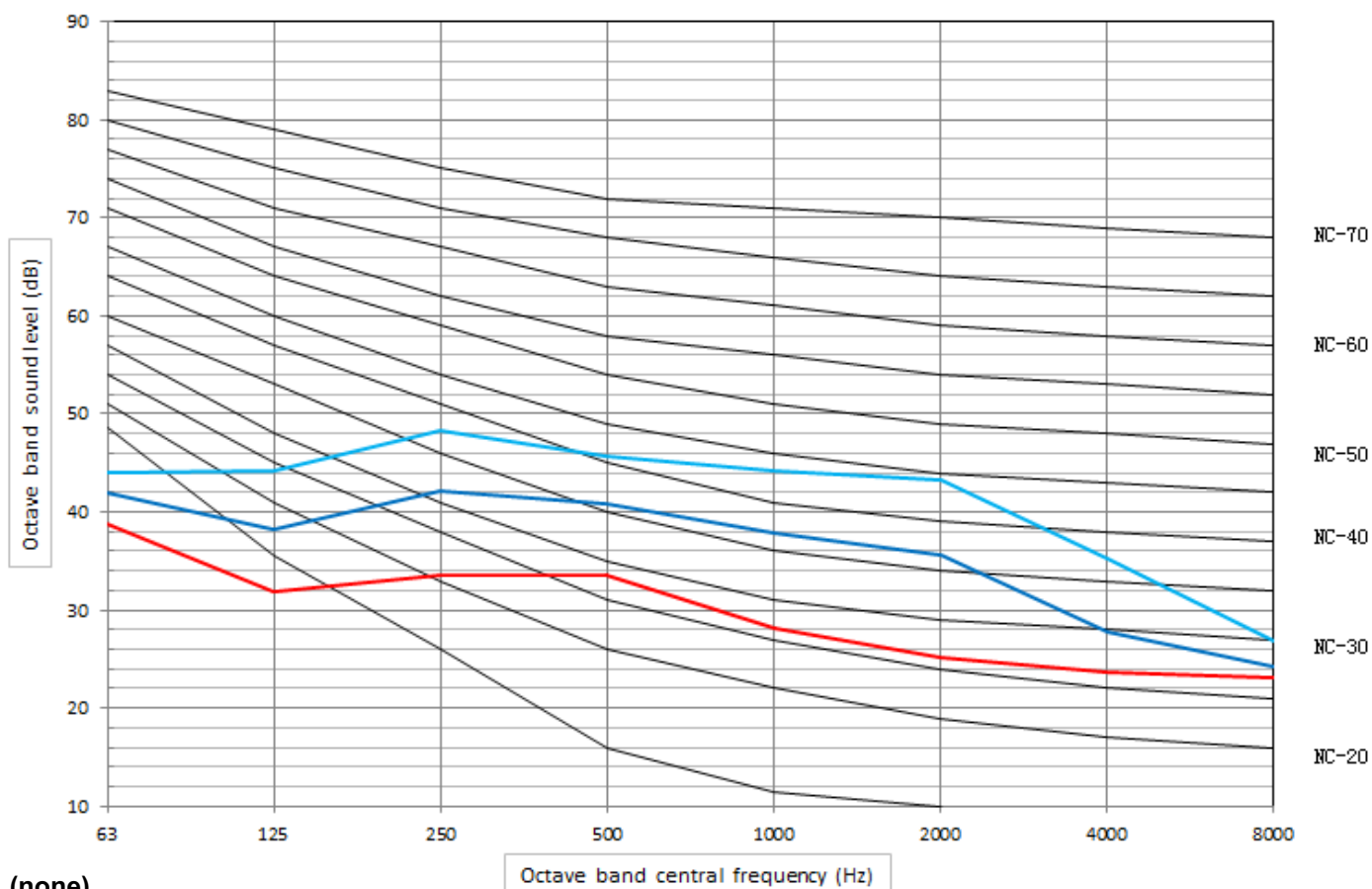
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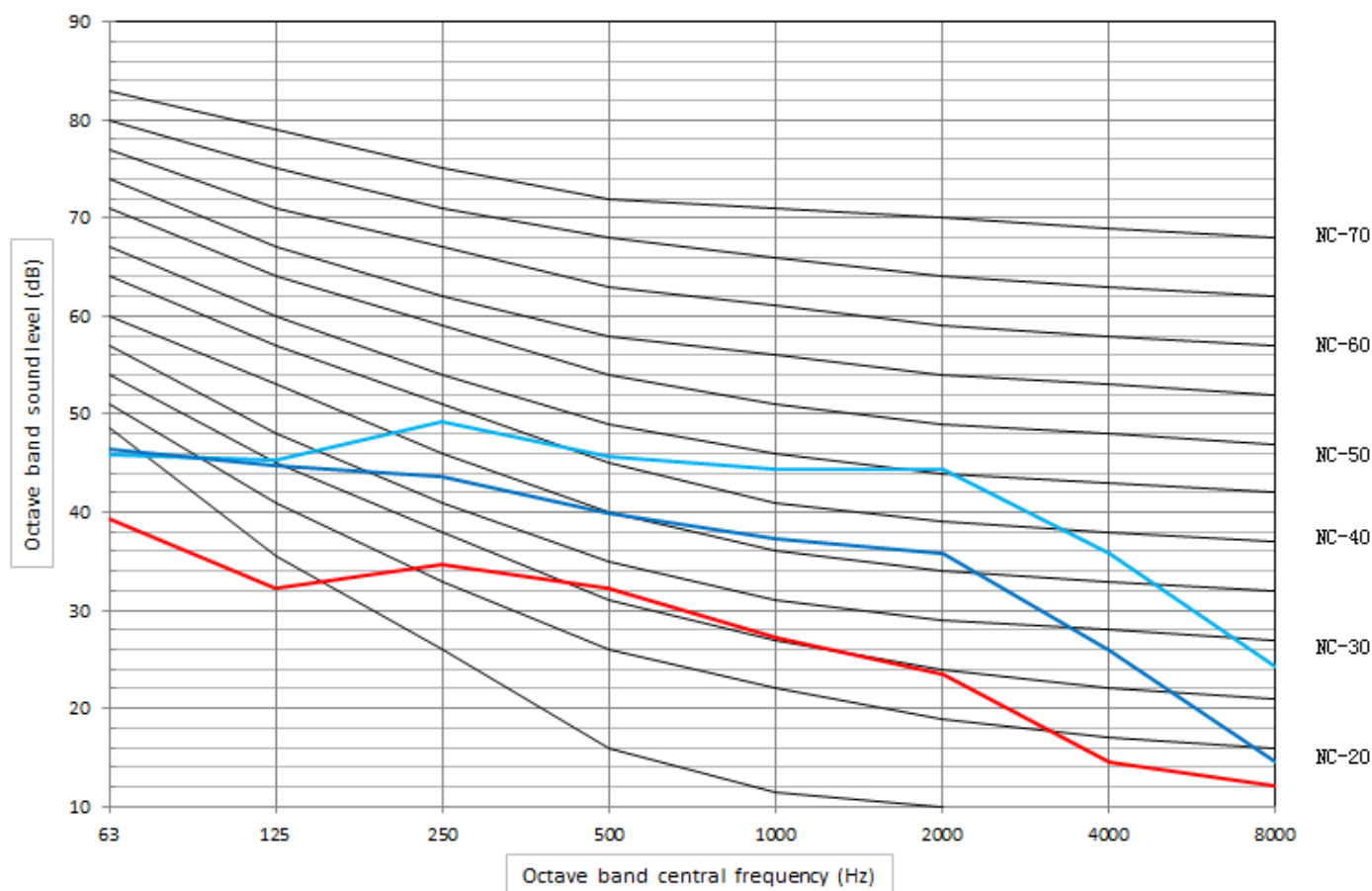
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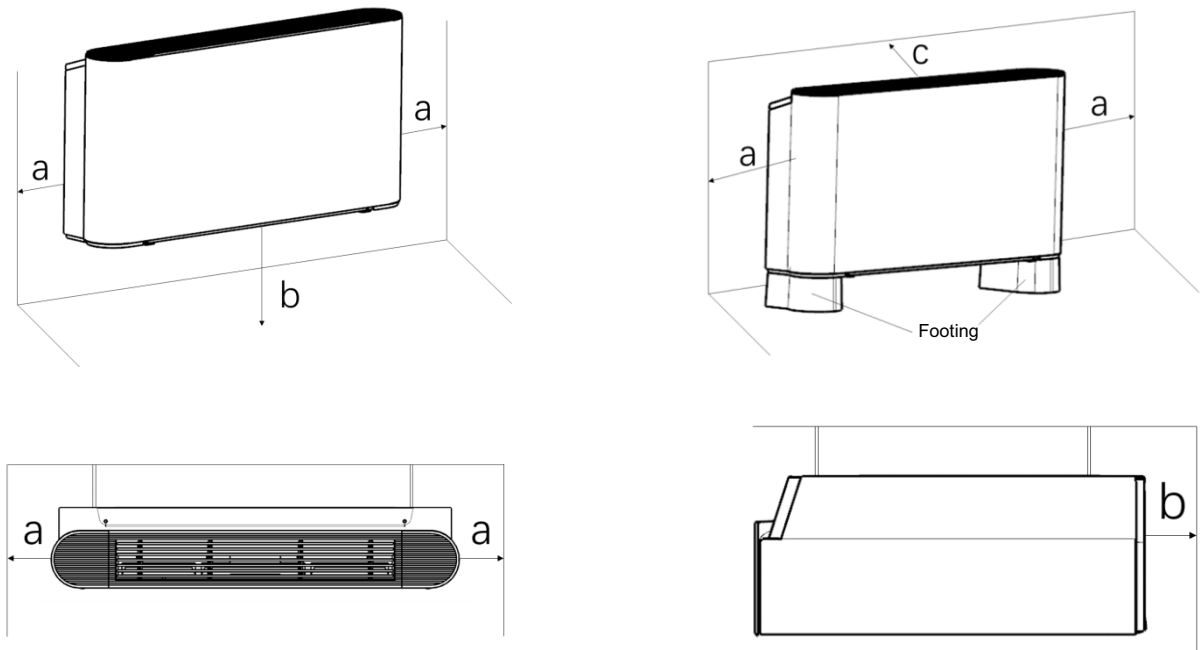


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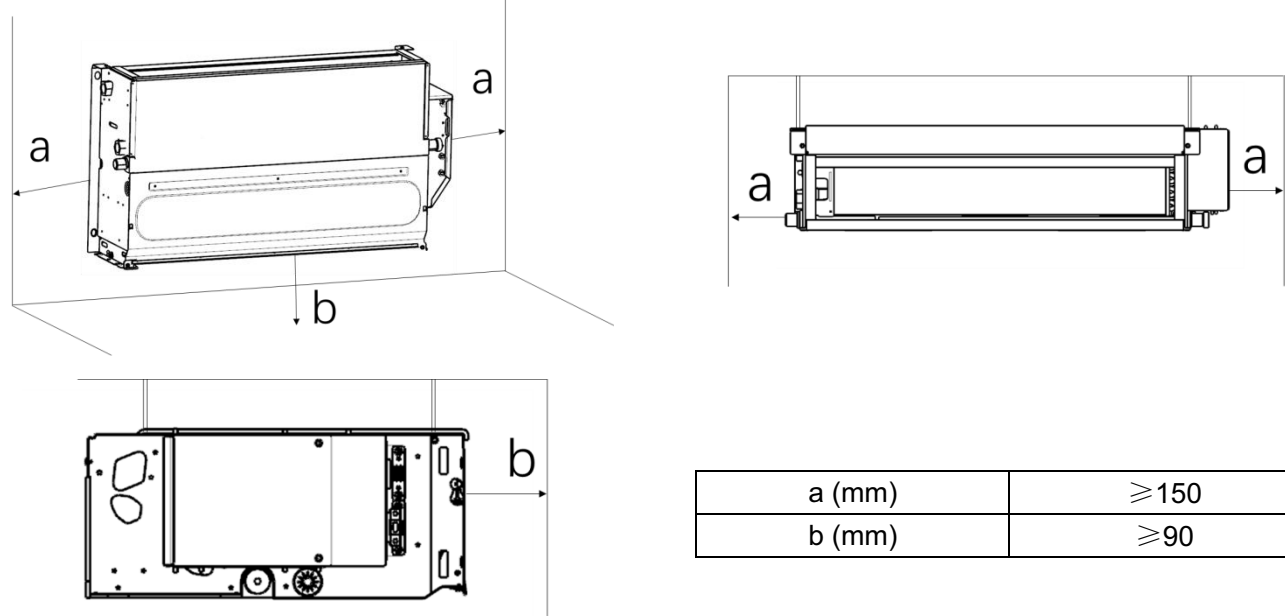
10. Service Spaces

Cased type



|        |            |
|--------|------------|
| a (mm) | $\geq 150$ |
| b (mm) | $\geq 90$  |
| c (mm) | $\geq 50$  |

Uncased type

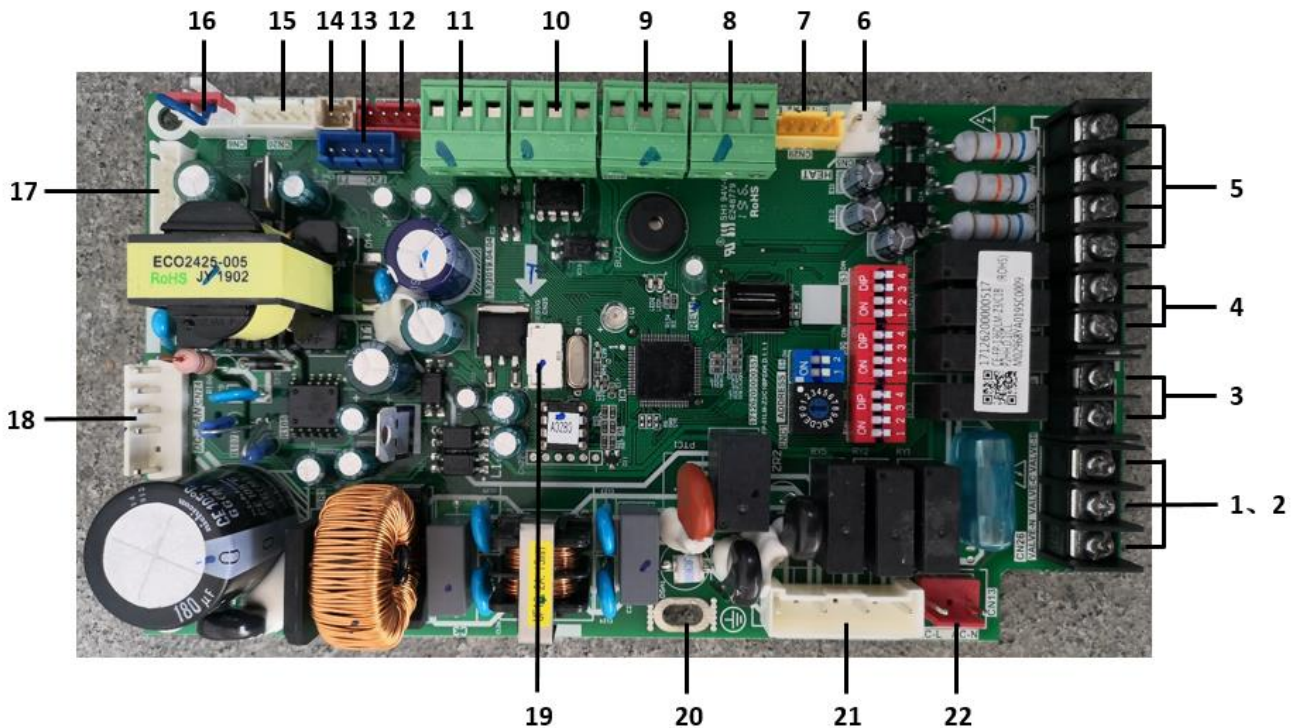


|        |            |
|--------|------------|
| a (mm) | $\geq 150$ |
| b (mm) | $\geq 90$  |



## 11. Wiring Diagrams

For all the model:



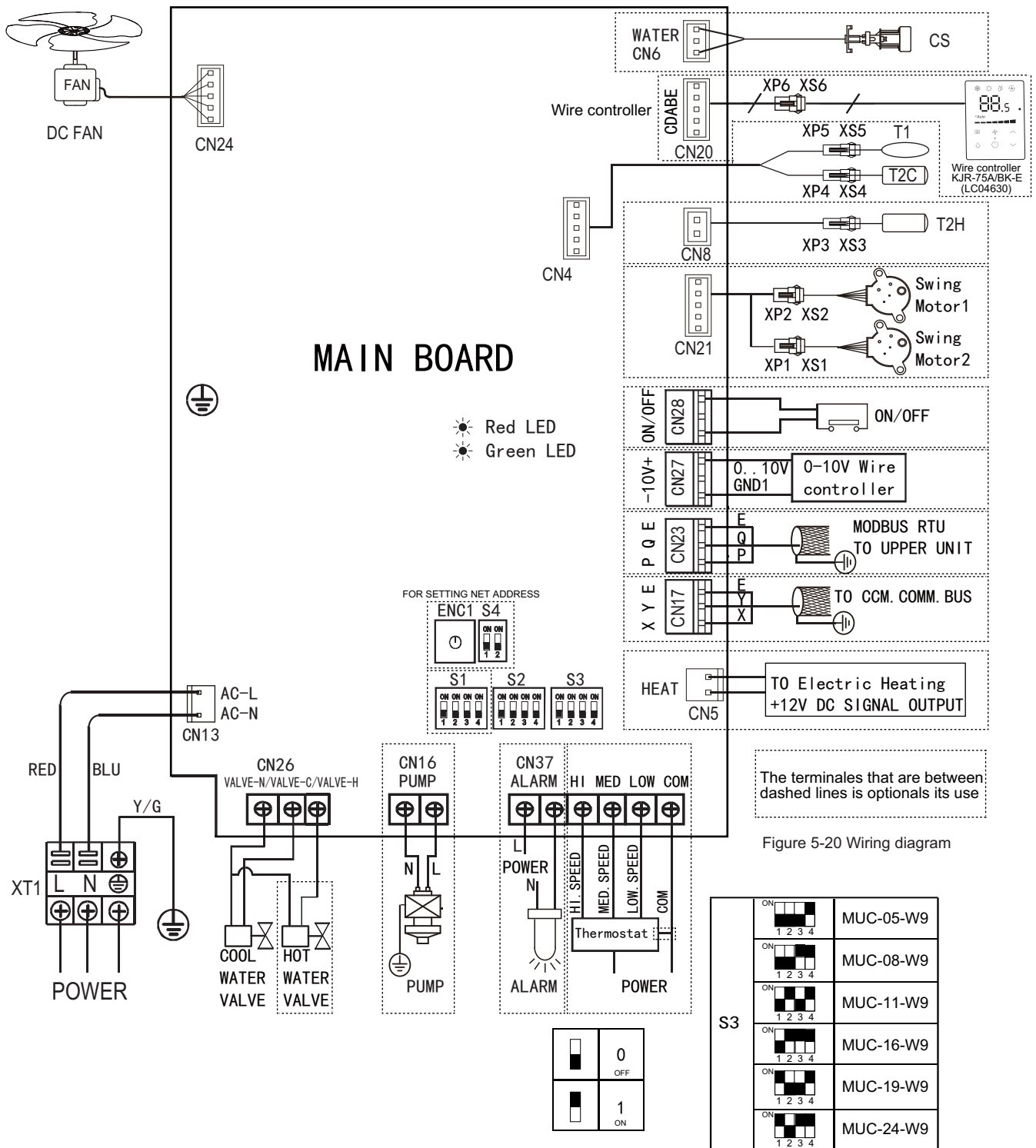
Main control board port description:

| No. | Description                                                        | Remarks    |
|-----|--------------------------------------------------------------------|------------|
| 1   | VALVE-N: Cooling/Heating 2-way valve/3-way valve null line         | Standard   |
|     | VALVE-C: Cooling 2-way/3-way valve live line                       |            |
| 2   | VALVE-N: Cooling/Heating 2-way valve/3-way valve null line         | Customized |
|     | VALVE-H: Heating 2-way/3-way valve live line                       |            |
| 3   | PUMP: Water pump output port                                       | Customized |
| 4   | ALARM: Fault alarm output                                          | Customized |
| 5   | HI: Mechanical 3-fan speeds wired controller, high fan speed       | Standard   |
|     | MED: Mechanical 3-fan speeds wired controller, medium fan speed    |            |
|     | LOW: Mechanical 3-fan speeds wired controller, low fan speed       |            |
|     | COM: Mechanical 3-fan speeds wired controller, public port         |            |
| 6   | HEAT: Control port for auxiliary electric heating relay            | Reserved   |
| 7   | ABX2Y2E: 2-way 485 communication wired controller port             | Reserved   |
| 8   | XYE: Centralized control communication port                        | Standard   |
| 9   | PQE: Modbus communication port                                     | Standard   |
| 10  | -10+: 0-10V wired controller input port                            | Standard   |
| 11  | ON/OFF: Remote on/off port                                         | Standard   |
| 12  | SWING: Swing motor port                                            | Reserved   |
| 13  | T2C: Refrigerating pipe temperature sensor port                    | Standard   |
|     | T1: Room temperature sensor port                                   |            |
| 14  | T2H: Heating pipe temperature sensor port                          | Customized |
| 15  | CDABE: Unidirectional infrared communication wired controller port | Standard   |

|    |                                            |            |
|----|--------------------------------------------|------------|
| 16 | WATER: Water level switch port             | Customized |
| 17 | DISPLAY: Display board port                | Reserved   |
| 18 | DC_FAN: DC fan                             | Standard   |
| 19 | DEBUG: Main control program burn port      | Standard   |
| 20 | Grounding screw position                   | Standard   |
| 21 | N: Null line output port for AC fan        | Reserved   |
|    | H: High fan speed output port for AC fan   |            |
|    | M: Medium fan speed output port for AC fan |            |
|    | L: Low fan speed output port for AC fan    |            |
| 22 | AC-L: Power supply live line input         | Standard   |
|    | AC-N: Power supply null line input         |            |



For all the model:



|                 |                                                                                                                                   |  |                                                                                   |                                                                                      |                  |                                                                                                                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENC1<br>&<br>S4 | SWITCH FOR ADDRESS SETTING                                                                                                        |  |  | ON  | Address<br>0-15  |  0<br> 1 |
|                 | '0-F' of the ENC1 and 'ON/OFF' of the S4, the different position represents a different address. Is be combined 64 address (0-63) |  |  | ON  | Address<br>16-31 |                                                                                                                                                                                |
|                 |                                                                                                                                   |  |  | ON  | Address<br>32-47 |                                                                                                                                                                                |
|                 |                                                                                                                                   |  |  | ON  | Address<br>48-63 |                                                                                                                                                                                |

|    |      |                                                                                   |                                          |    |        |                                                                                    |                                                         |
|----|------|-----------------------------------------------------------------------------------|------------------------------------------|----|--------|------------------------------------------------------------------------------------|---------------------------------------------------------|
| S1 | S1-1 |  | 2 pipe                                   | S2 | S2-1/2 |  | Temp. compensation value is 0 under cool mode (default) |
|    |      |  | 4 pipe                                   |    |        |  | Temp. compensation value is 1 under cool mode           |
|    | S1-2 |  | Without enforcement to turn wind         |    |        |  | Temp. compensation value is 2 under cool mode           |
|    |      |  | With enforcement to turn wind            |    |        |  | Temp. compensation value is 3 under cool mode           |
|    | S1-3 |  | Normal anti-cold wind                    |    | S2-3/4 |  | Temp. compensation value is 3 under heat mode (default) |
|    |      |  | High temperature anti-cold wind          |    |        |  | Temp. compensation value is 1 under heat mode           |
|    | S1-4 |  | turn on E-heater and Heating valve       |    |        |  | Temp. compensation value is 6 under heat mode           |
|    |      |  | turn on E-heater, turn off Heating valve |    |        |  | Temp. compensation value is 8 under heat mode           |

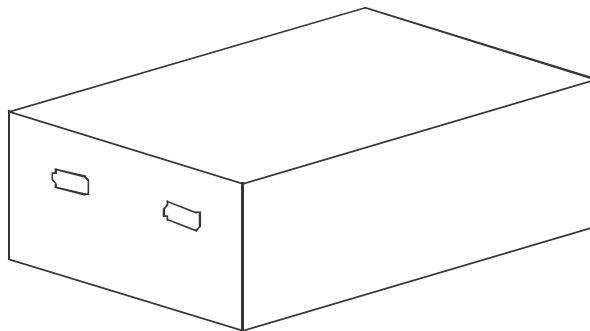
## 12. Installation

### 12.1 Transport and handling

#### Caution:

Do not open or tamper with the packaging before installation. The units should only be moved and lifted by specialized personnel trained in these operations.

Check on arrival that the unit has not been damaged during transport and that it is complete with all its parts.



To remove the packaging, please follow below instructions:

1. Check for visible damage.
2. Open the packaging.
3. Check that the manual for use and maintenance are in the packaging.
4. Dispose of the packaging material in accordance with current legislation at the appropriate waste reception or recycling site.

The units may be moved or lifted either by hand or by means of a suitable trolley. If the weight of the unit is more than 30kg, moving units need to be moved at the same time, it is advisable to put the machines in a container and lift them by means of a crane or something similar.

## 12.2 Storage conditions

Units in packaging may be stacked not more than four-layer, and must be kept under cover.

## 12.3 Units installation

### Caution:

Installation must only be carried out by qualified technicians, trained to work with air-conditioning and refrigeration systems. Incorrect installation could lead to unit malfunctioning and a consequent deterioration in performance.

For installation, follow the instructions set out below:

### Check the space technically required for installation:

- ♦ Space required for installation.
- ♦ Space required for connecting the liquid lines and other valves.
- ♦ Space required for connecting power supply.
- ♦ Space required for connecting the unit to the external control panel (if any).
- ♦ Space required for setting flow route and air inlet (for specific models).
- ♦ Space required for correct and sufficient air flow.
- ♦ Space required for removing condensate water.
- ♦ Space required for cleaning the filter.
- ♦ Space required for cleaning internal assembly and maintenance.

Remove the casing:

Removing screws ①\*2, ②\*2 and ③\*2 and then the casing as Figure 12.4.1.

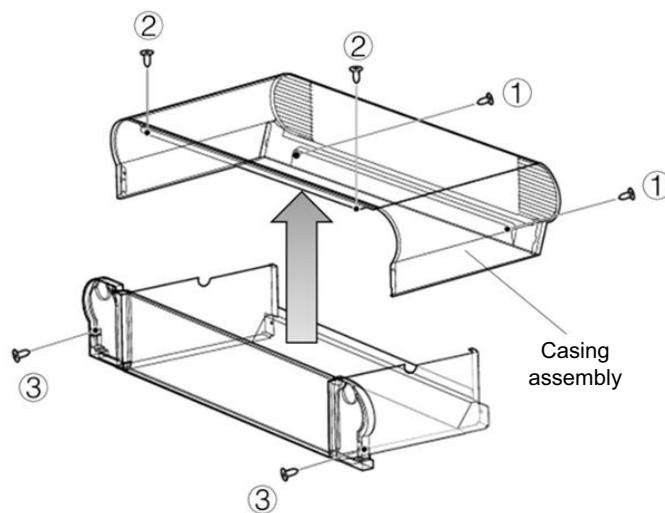


Figure 12.4.1

Mark the places for screws on the wall according to the unit mounting holes or dimensions specified in Figure 12.4.2. The drain pipe for condensate water must be smooth enough to allow unobstructed water discharge.

As shown in Figure 12.4.2, fasten four screws (①) into a proper masonry structure.

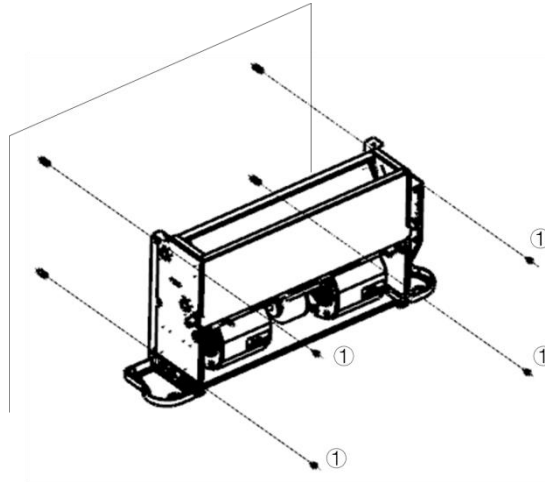


Figure 12.4.2

The footings shown in Figure 12.4.3 are optional. You can purchase them separately and install them as follows:

1. Put the footings beside the unit to be installed.
2. Place the mounting holes on the unit base into the corresponding footing locating pin and install screws ①\*2 and ②\*2 to fix the footing according to Figure 12.4.3.

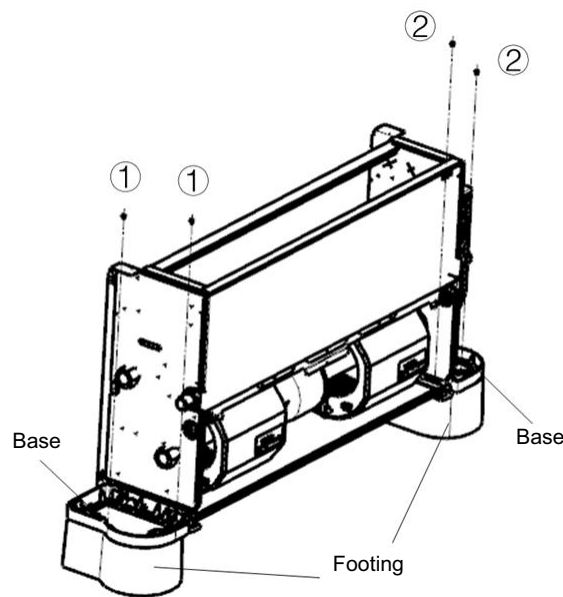


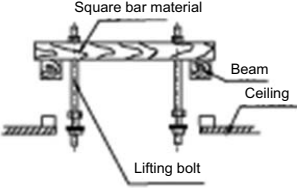
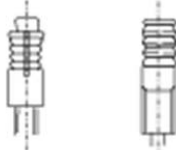
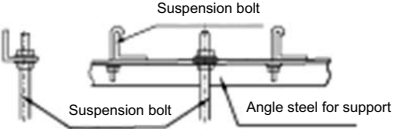
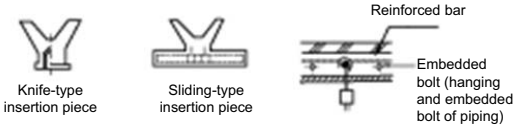
Figure 12.4.3

The footings shown in Figure 12.4.3 are optional. You can purchase them separately and install them as follows:

1. Put the footings beside the unit to be installed.
2. Place the mounting holes on the unit base into the corresponding footing locating pin and install screws ①\*2 and ②\*2 to fix the footing according to Figure 12.4.3.

**Install the unit following the steps below in case it is ceiling mounted.**

To match the existing structure, set the screw pitch according to the unit dimensions.

|                                                                                                                                                                                                 |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Wooden structure</div> <div>Secure the square rod on the beam to set the lifting bolts.</div> <div></div> | <div>Original concrete slab structure</div> <div>Use embedded bolts, and pull bolts.</div> <div></div>                         |
| <div>Steel framework</div> <div>Directly set and use an angle steel for support.</div> <div></div>             | <div>Newly set concrete slab structure</div> <div>Set using embedded appliances, and embedded type of bolts.</div> <div></div> |

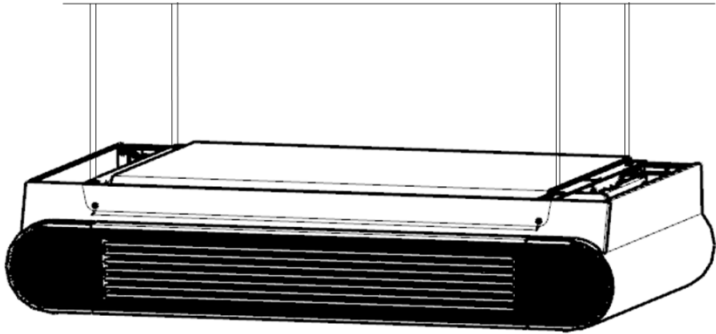


Figure 12.4.4 Diagram of ceiling exposed

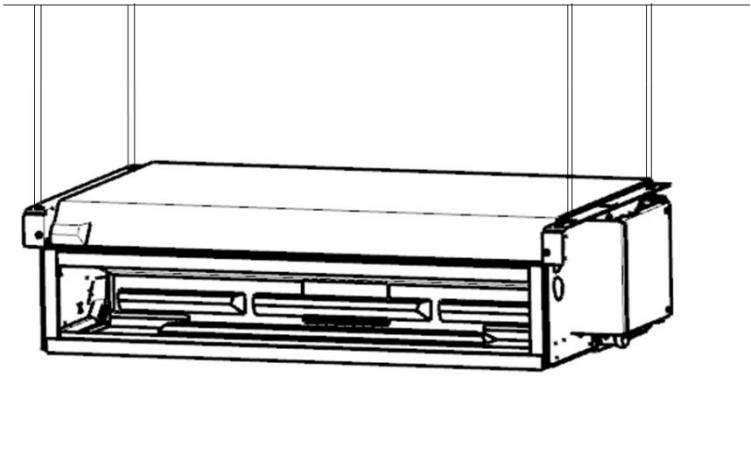


Figure 12.4.5 Diagram of ceiling concealed

Liquid pipe connections

Connect the unit to the water system using inlet and outlet connectors.

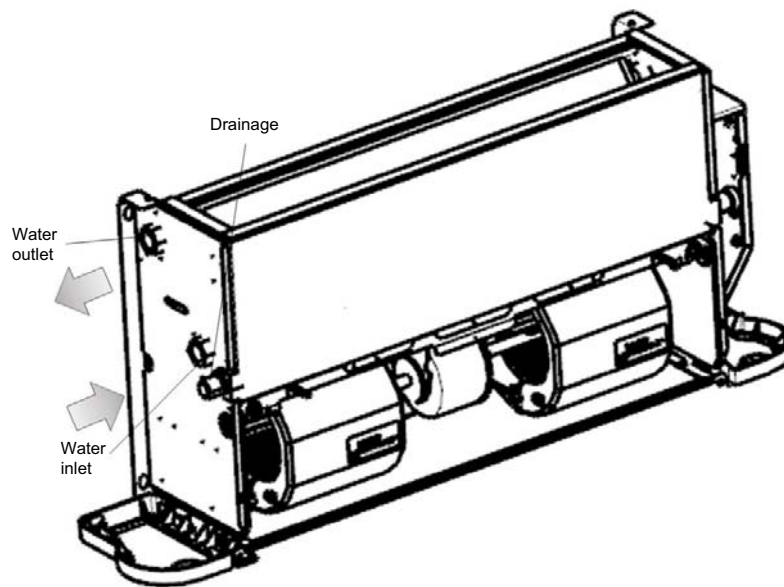


Figure 12.4.6

All water system coils are equipped with discharge and drain valves.  
Use a screwdriver or wrench to open and close the valve.

**When installation is complete,**

- ① Remove air inside pipes.
- ② Wrap the connecting pipes and all the valve body with anti-condensation material (EPDM or PE) of no less than 10 mm thick, or install auxiliary drainage equipment.
- ③ Pour water into the drain pan and check it all the way until you can see water flows from the drain outlet. Alternatively, you may check the drain channel and remove impurities that may obstruct the flow.
- ④ Install the condensate drain system.
- ⑤ The condensate drain system must be properly lowered to ensure water discharge.

Follow the steps below to set the condensate drain system.

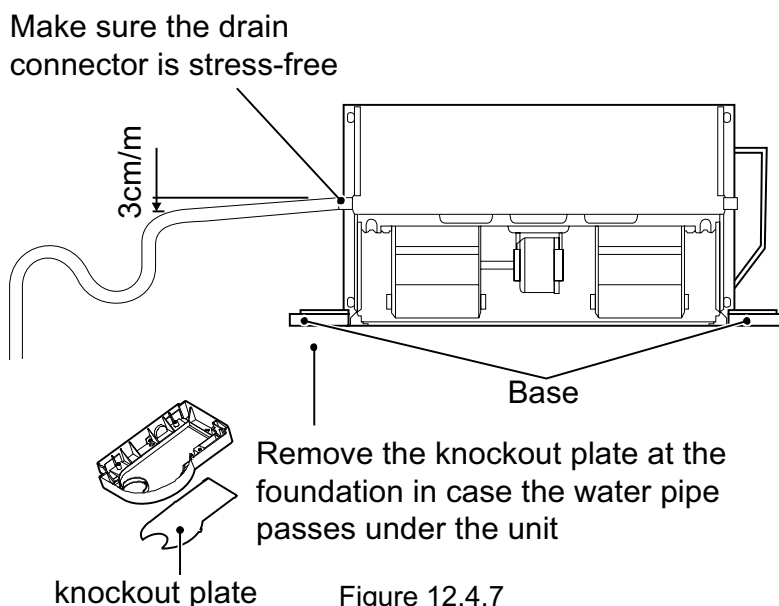


Figure 12.4.7

### Set water storage elbow

The condensate drain system must be fitted with a suitable elbow to prevent odour penetration. Follow the steps below to set the elbow.

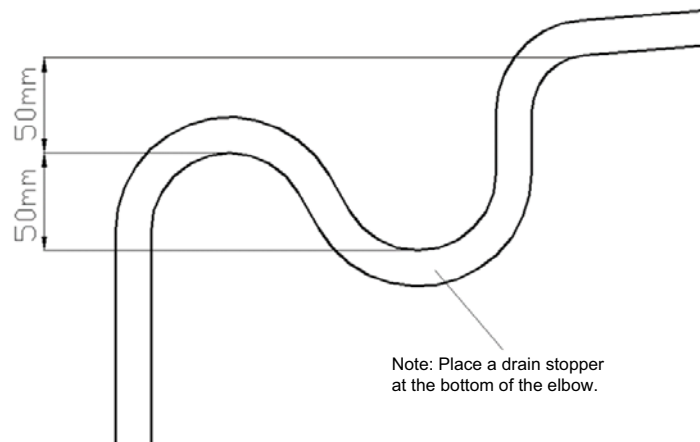


Figure 12.4.8

The customer has to purchase the three-way valve and its accessories (Operation and Installation Manual attached) separately from the manufacturer.

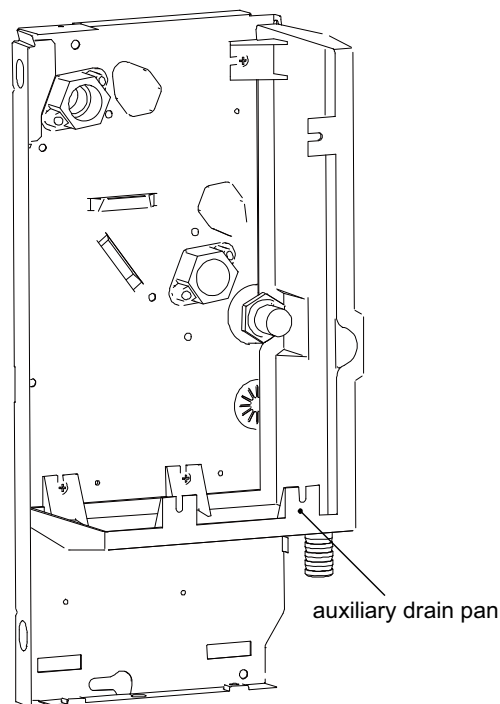


Figure 12.4.9

The customer may also need to purchase the auxiliary drain pan (Figure 12.4.9) separately from the manufacturer if required. See the steps below for installation of auxiliary drain pan:

### Electrical connections

#### Caution:

- ♦ Make sure that the power supply falls with 220-240V~1ph 50Hz/60Hz and is able to provide enough wattage for the unit. The power supply system must comply with the current national safety regulations.
- ♦ The electrical connection must be completed by qualified professionals and must comply with local laws and regulations. The company is not responsible for personal or property damage resulting from any incorrect electrical connections.

- ♦ Provide dedicated and suitable leakage protection device for the unit, with a minimum distance of 3 mm among the wiring contacts. The unit must be grounded reliably.
- ♦ Make sure that the power cord has a large-enough cross section to withstand the maximum current required. Never use a damaged cable.
- ♦ Perform electrical connections according to the wiring nameplate of the unit.
- ♦ Secure the cable using clamps in the electric control box to ensure the safety of the power supply cable and the connection cable.
- ♦ Do not pull, step on or squeeze the cable. Do not use nails or staples to secure the power cord. You need to pass the cable through the knockout hole at the foundation.
- ♦ For this stationary appliance it is required to have for disconnection of mains supply and all-pole switch with a contact opening of at least 3mm in the fixed wiring

### Danger!

Always install a general automatic switch in a protected area near the appliance with an adequate capacity characteristic delayed curve with sufficient breaking power. There should be a minimum distance of 3mm between the contacts. Earth connection is compulsory by law to ensure user safety while the machine is in use. Refer to Tables 12.4.1&12.4.2for the specifications of the power cord and communication wire. A wiring capacity that is too small will cause the electrical wiring to become too hot, and lead to accidents when the unit burns and becomes damaged.

Select the wire diameters ( minimum value) individually for each unit based on the Table 12.4.2.

Maximum allowable voltage range variation between phases is 2%.

Select circuit breaker that having a contact separation in all poles not less than 3 mm providing full disconnection, where MFA is used to select the current circuit breakers and residual current operation breakers

Table 12.4.1

|                                                             |                           |
|-------------------------------------------------------------|---------------------------|
| Air flow                                                    | 255-1300m <sup>3</sup> /h |
| Power supply voltage                                        | 220-240V                  |
| Power supply phase                                          | 1 phase                   |
| Power supply frequency                                      | 50Hz、60Hz                 |
| Circuit breaker / Fuse                                      | 15A / 15A                 |
| Communication wire between indoor unit and wired controller | Three core shielded wire  |

Table 12.4.2

| Rated current of appliance (A) | Nominal cross-sectional area (mm <sup>2</sup> ) |                        |
|--------------------------------|-------------------------------------------------|------------------------|
|                                | Flexible cords                                  | Cable for fixed wiring |
| ≤3                             | 0.5 and 0.75                                    | 1 and 2.5              |
| >3 and ≤6                      | 0.75 and 1                                      | 1 and 2.5              |
| >6 and ≤10                     | 1 and 1.5                                       | 1 and 2.5              |
| >10 and ≤16                    | 1.5 and 2.5                                     | 1.5 and 4              |
| >16 and ≤25                    | 2.5 and 4                                       | 2.5 and 6              |
| >25 and ≤32                    | 4 and 6                                         | 4 and 10               |
| >32 and ≤50                    | 6 and 10                                        | 6 and 16               |
| >50 and ≤63                    | 10 and 16                                       | 10 and 25              |

### Wiring

- ♦ See product wiring nameplate.
- ♦ Check that the voltage and the frequency of the power supply correspond to 220-240V single phase at 50Hz/60Hz; that the available power is sufficient for the running the equipment; and that the supply cables are of adequate section for the maximum current which will be required.
- ♦ Make sure that the power supply system complies with current national safety regulations.
- ♦ Electrical connections must be made in accordance with the wiring diagrams supplied with the machine. For connection to the power supply network, use double-insulated flexible cable, twin pole + earth, section



1.5mm<sup>2</sup>, type H05RN-F.

- ♦ Pass the power supply cable through the slot beside the air filter. Use the cable clamp provided on the inner side of the panel to secure the power supply cable and the connecting cables, and strip only the length of cable needed to go into the connector block. In the event that the unit is mounted on a metal surface, earth connections must be made in compliance with local regulations. If the optional extra electric heating element is fitted, a separate power supply must be provided. Use double-insulated flexible cable, twin pole + earth, section 2.5mm<sup>2</sup>, type H05RN-F.

### Startup instructions

#### Caution:

Machine commissioning or the first startup must be carried out by skilled personnel qualified to work on this type of product.

Before starting up, make sure that the installation and electrical connections have been carried out in accordance with the instructions in this manual. Also make sure that there are no unauthorized persons in the vicinity of the machine during these operations.

### Preliminary checks before startup

- ♦ Before starting up the unit, make sure that:
- ♦ The unit is positioned correctly;
- ♦ The flow and return pipes of the water system are correctly connected;
- ♦ The pipes are clean and free of air;
- ♦ The unit falls correctly towards the drainage outlet and the trap;
- ♦ The heat-exchangers are clean;
- ♦ The electrical connections are correct;
- ♦ The screws holding the cables are well tightened;
- ♦ The supply voltage is as required;
- ♦ The power consumption of the blower is correct and does not exceed the maximum permitted.

## 12.4 Maintenance

#### Caution:

- ♦ Maintenance work must only be carried out by qualified technicians authorized to work on air-conditioning and refrigeration systems.
- ♦ Use suitable work gloves.
- ♦ Do not use pointed objects through the air intake grilles.
- ♦ Disconnect the power supply before cleaning and maintenance.
- ♦ Use dry cloth to clean the unit.
- ♦ Always disconnect the unit from the mains power supply at the main isolator switch before carrying out maintenance work or checks. Make sure that no one accidentally supplies power to the machine; lock the main switch in the Off position.

#### Scheduled maintenance

- ♦ Once a month

Check the state of cleanliness of the air filters. The air filters are made of fibre and can be washed in water. The state of cleanliness of the filters must be checked regularly at the start of the operating season and on a monthly basis.

- ♦ Every six months

Check the state of cleanliness of the heat-exchanger and the condensation drain-tube.

Switch off the unit, remove the casing of the machine and check the state of the heat-exchanger and the condensation drain-tube if necessary:

1. Remove any obstacle from the surface which may obstruct air flow;
2. Clean the dust with a jet of compressed air;

3. Wash and brush gently with water;
4. Dry with a jet of compressed air;
5. Check that there are no obstacles in the condensation drain tube which could prevent the normal flow of water.

#### Release the air in the water system.

1. Remove the casing of the machine (for casing type);
2. Start the system and run for a few minutes;
3. Stop the system;
4. Loosen the release screw on the inlet manifold and release the air.
5. Repeat the operation several times until no more air comes out of the system.

#### At the end of the season

To avoid the risk of rupture due to freezing, it is advisable to drain the water from the system at the end of every season.

#### Check the electrical circuit

The following operations are recommended for the maintenance of the electrical circuit:

Tighten the electrical contacts and terminals;

Check the unit's power using a clip-on ammeter and compare with the values shown on the document.

#### Motor to replace, follow the steps below:

- a) Unplug the unit.
- b) As shown in Figure 12.5.1, remove screws ①\*2 and ②\*2 and then the casing.
- c) As shown in Figure 12.5.2, remove screws ①\*2 to take the filter out.

Then, remove the upper volute.

After that, remove four screws (②) that fix the motor, to disconnect the motor cable and the main board. Then, take out the fan and the motor.

Disassemble the fan to get the motor.

Install back the motor in reverse order.

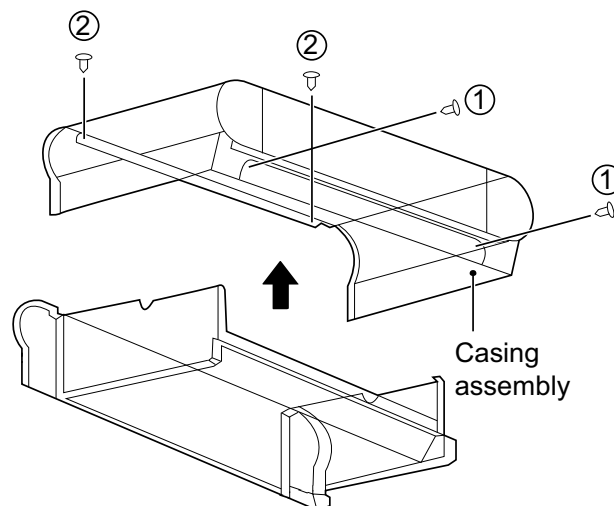


Figure 12.5.1 Removal of casing

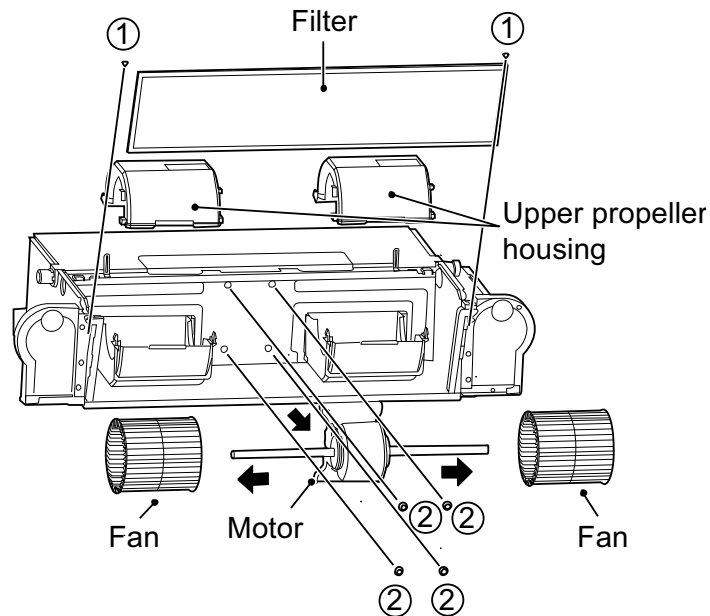


Figure 12.5.2 Removal of filter, upper volute and motor screws

**Heat exchanger to replace, follow the steps below:**

- a) Unplug the unit.
- b) Shut off the water supply.
- c) As shown in Figure 12.5.3, remove screws ①\*2 and ②\*2 and then the casing.
- d) Drain the coil.
- e) Disassemble the inlet and outlet pipes.
- f) As shown in Figure 12.5.4, remove screws ①\*2 to remove the electric control box.
- g) As shown in Figure 12.5.5, remove screws ①\*7 to take the drain pan out. Then, remove screws ②\*4 to take the heat exchanger out.
- h) Pull out the temperature sensor plug.

Install back the heat exchanger in reverse order

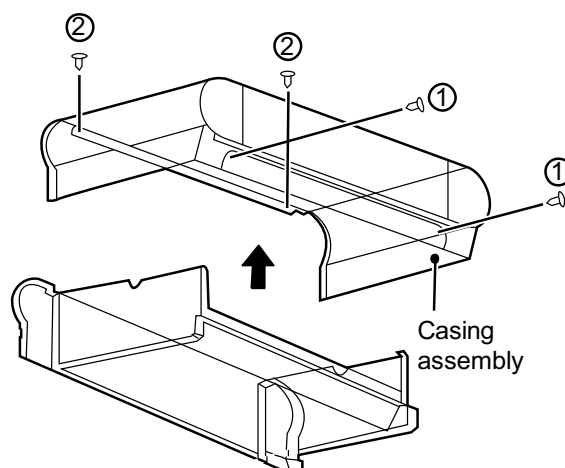


Figure 12.5.3 Removal of casing

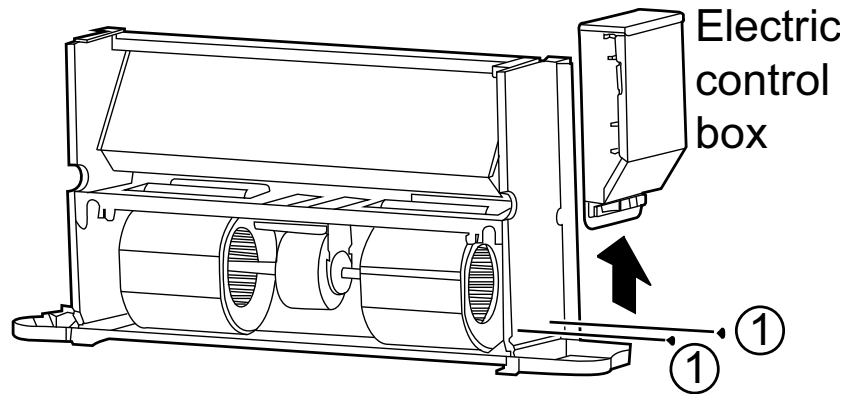


Figure 12.5.4 Removing the electric control box

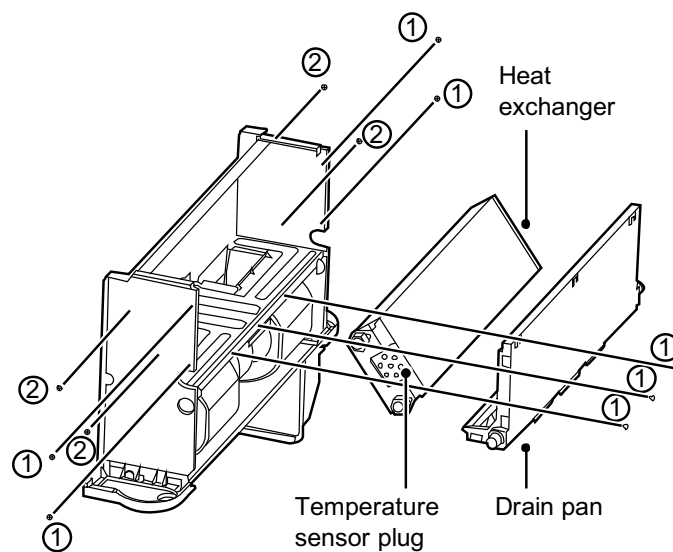


Figure 12.5.5 Removal of drain pan and heat exchanger

**If the unit or its parts need(s) to be removed, make sure that:**

Only a professional person can disassemble the unit.

The system with antifreeze must not be discarded; otherwise, it will cause pollution. It should be collected and then be disposed off properly.

As a special waste, electronic components must be handled by professional persons together with polyurethane foam, polyurethane and sound absorbing sponge.

**12.5 Troubleshooting**

The system maintenance must be carried out by qualified maintenance personnel.

| Error                                                                                                                                                                                 | Measures                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| If a safety device, such as a fuse, circuit breaker or a leakage circuit breaker is triggered frequently or the ON/OFF switch is not working properly.                                | Turn off the main power switch.                              |
| The operating switch is not functioning normally.                                                                                                                                     | Turn off the power supply.                                   |
| If a centralized controller is used, the unit number is displayed on the user interface, and the operating indicator is flickering, and an error code is shown on the screen as well. | Notify the installation personnel and report the error code. |

Except as noted above, if the above faults are not typical and the unit still fails, follow the steps below:

| Error                                                               | Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If the system does not run at all.                                  | Check whether there is a power failure. Wait for the power supply to be restored. If a power failure occurs when the unit is still running, the system will restart automatically once the power is restored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| The system is running but there is insufficient cooling or heating. | <p>Check whether the air outlet is blocked by any obstacles.<br/>Remove the obstacles.</p> <p>Check whether the filter is blocked.</p> <p>Check the temperature setting.</p> <p>Check the fan speed settings on the user interface.</p> <p>Check whether the doors and windows are open.<br/>Close the doors and windows to shut out wind from the external environment.</p> <p>Check whether there are too many people in the room when the cooling mode is in operation.</p> <p>Check whether the heat source of the room is too high.</p> <p>Check whether there is direct sunlight into the room. Use curtains or blinds.</p> <p>Check whether the angle of air flow is appropriate.</p> |

**Error code overview:**

If a centralized controller is used, error codes appear on the user interface. Contact the installation personnel and inform them of the error code, unit model and serial number (you can find the information on the nameplate of this unit).

Refer to Maintenance Manual for troubleshooting:

| NO. | Error      | Name                                    | Running Indicator | Fault Indicator                 | Buzzer action                  | Error Code |
|-----|------------|-----------------------------------------|-------------------|---------------------------------|--------------------------------|------------|
| 1   | Error      | E <sup>2</sup> PROM communication error | Steady on         | Flashes once every 3 seconds    | Buzzes 2 times every 3 seconds | E7         |
| 2   | Error      | Room temperature sensor port abnormal   | Steady on         | Flashes 2 times every 3 seconds | Buzzes 2 times every 3 seconds | E2         |
| 3   | Error      | Coil sensor (T2C)port abnormal          | Steady on         | Flashes 3 times every 3 seconds | Buzzes 2 times every 3 seconds | E3         |
| 4   | Error      | Coil sensor (T2H)port abnormal          | Steady on         | Flashes 3 times every 5 seconds | Buzzes 2 times every 3 seconds | E4         |
| 5   | Error      | DC motor stall fault                    | Steady on         | Flashes 4 times every 3 seconds | Buzzes 2 times every 3 seconds | E8         |
| 6   | Protection | Water level exceeding warning line      | Blinking          | Flashes once every 3 seconds    | Buzzes 2 times every 3 seconds | EE         |

|    |            |                                                                           |          |                                 |                                |    |
|----|------------|---------------------------------------------------------------------------|----------|---------------------------------|--------------------------------|----|
| 7  | Protection | Model protection not set (model DIP switch not listed in the model table) | Blinking | Flashes 2 times every 3 seconds | Buzzes 2 times every 3 seconds | PH |
| 8  | Protection | Water temperature protection                                              | Blinking | Flashes 3 times every 3 seconds | Buzzes 2 times every 3 seconds | P1 |
| 9  | Protection | Anti-freezing protection                                                  | Blinking | Flashes 4 times every 3 seconds | Buzzes 2 times every 3 seconds | P0 |
| 10 | Protection | Remote shutdown                                                           | Blinking | Flashes 5 times every 3 seconds | Buzzes 2 times every 3 seconds | P2 |

### Non-Unit Related Faults:

The following fault symptoms are not caused by the unit itself:

1) Fault symptom: Fan speed is not consistent with the setting.

The fan doesn't respond to the controller. In cooling mode, when the pipe water temperature is outside the allowable range of room temperature, the fan speed will be maintained at a low level to avoid direct exposure to hot air. In heating mode, when the pipe water temperature reaches a certain low level, the fan speed will also be maintained at a low level to avoid direct exposure to cold air.

2) Fault symptom: Fan direction is not consistent with the setting.

The fan direction is inconsistent with the direction indicated on the user interface. Swing is a customized function. If the customer customizes this function and the fan direction does not correspond to the set direction, this is because the unit is controlled.

3) Fault symptom: white fog from a certain unit.

This may result from high humidity during cooling mode. If the interior pollution of the fan coil unit is severe, the indoor temperature distribution may be uneven. At this time, you need to clean the inside of the unit. Ask the dealer for information on how to clean the unit. This operation must be carried out by qualified maintenance personnel.

4) Fault symptom: dust and dirt in the unit.

It may happen after the unit is used again after being left idle for a long period. This is because there is dust inside the unit.

5) Fault symptom: odour from unit.

The unit will absorb the odours of rooms, furniture, cigarettes and others, and then disperse the odours again. Odour might occur after small animals enter the unit.

## 13. Capacity Table

### 13.1 Cooling capacity table

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 5      | 3    | 15                   | 1.3                       | 1.03 | 0.37    | 20.15 | 1.29 | 1.19 | 0.37    | 19.98 | 1.34 | 1.34 | 0.39    | 21.31 | 1.5  | 1.5  | 0.43    | 25.81 | 1.66 | 1.66 | 0.48    | 30.47 |
|        |      | 17                   | 1.76                      | 1.03 | 0.5     | 33.51 | 1.75 | 1.19 | 0.5     | 33.3  | 1.75 | 1.35 | 0.5     | 33.04 | 1.74 | 1.51 | 0.5     | 32.81 | 1.73 | 1.66 | 0.49    | 32.59 |
|        |      | 19                   | -                         | -    | -       | -     | 2.26 | 1.2  | 0.65    | 52.19 | 2.25 | 1.36 | 0.65    | 51.91 | 2.24 | 1.52 | 0.65    | 51.64 | 2.24 | 1.68 | 0.64    | 51.35 |
|        |      | 20                   | -                         | -    | -       | -     | 2.52 | 1.21 | 0.73    | 63.46 | 2.51 | 1.37 | 0.73    | 63.14 | 2.51 | 1.52 | 0.72    | 62.83 | 2.5  | 1.68 | 0.72    | 62.51 |
|        | 4    | 15                   | 1.1                       | 0.94 | 0.24    | 9.26  | 1.1  | 1.1  | 0.24    | 9.25  | 1.25 | 1.25 | 0.27    | 11.37 | 1.41 | 1.41 | 0.3     | 13.94 | 1.57 | 1.57 | 0.34    | 16.89 |
|        |      | 17                   | 1.57                      | 0.95 | 0.34    | 16.87 | 1.56 | 1.1  | 0.34    | 16.75 | 1.56 | 1.26 | 0.33    | 16.63 | 1.55 | 1.42 | 0.33    | 16.5  | 1.57 | 1.56 | 0.34    | 16.86 |
|        |      | 19                   | -                         | -    | -       | -     | 2.06 | 1.11 | 0.44    | 26.74 | 2.05 | 1.27 | 0.44    | 26.64 | 2.05 | 1.43 | 0.44    | 26.51 | 2.04 | 1.58 | 0.44    | 26.09 |
|        |      | 20                   | -                         | -    | -       | -     | 2.32 | 1.11 | 0.5     | 32.78 | 2.32 | 1.27 | 0.5     | 32.62 | 2.31 | 1.43 | 0.5     | 32.45 | 2.3  | 1.59 | 0.49    | 32.27 |
|        | 5    | 15                   | 0.88                      | 0.84 | 0.15    | 4.21  | 1    | 1    | 0.17    | 5.33  | 1.16 | 1.16 | 0.2     | 6.83  | 1.32 | 1.32 | 0.23    | 8.48  | 1.48 | 1.48 | 0.25    | 10.28 |
|        |      | 17                   | 1.36                      | 0.85 | 0.23    | 8.95  | 1.36 | 1.01 | 0.23    | 8.88  | 1.35 | 1.17 | 0.23    | 8.8   | 1.35 | 1.32 | 0.23    | 8.76  | 1.48 | 1.48 | 0.25    | 10.32 |
|        |      | 19                   | -                         | -    | -       | -     | 1.86 | 1.02 | 0.32    | 15.33 | 1.86 | 1.18 | 0.32    | 15.23 | 1.85 | 1.34 | 0.32    | 15.14 | 1.84 | 1.49 | 0.32    | 15.03 |
|        |      | 20                   | -                         | -    | -       | -     | 2.13 | 1.03 | 0.37    | 19.21 | 2.12 | 1.18 | 0.36    | 19.11 | 2.11 | 1.34 | 0.36    | 19    | 2.11 | 1.5  | 0.36    | 18.89 |
|        | 6    | 15                   | 0.69                      | 0.69 | 0.1     | 1.69  | 0.88 | 0.88 | 0.13    | 2.8   | 1.07 | 1.07 | 0.15    | 4.3   | 1.23 | 1.23 | 0.18    | 5.52  | 1.39 | 1.39 | 0.2     | 6.8   |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
|   |   | 17 | 1.14 | 0.76 | 0.16 | 4.88  | 1.14 | 0.91 | 0.16 | 4.83  | 1.13 | 1.07 | 0.16 | 4.78  | 1.23 | 1.23 | 0.18 | 5.54  | 1.39 | 1.39 | 0.2  | 6.83  |
|   |   | 19 | -    | -    | -    | -     | 1.65 | 0.93 | 0.24 | 9.12  | 1.65 | 1.09 | 0.24 | 9.05  | 1.64 | 1.25 | 0.23 | 8.98  | 1.63 | 1.4  | 0.23 | 8.91  |
|   |   | 20 | -    | -    | -    | -     | 1.92 | 0.94 | 0.27 | 11.73 | 1.91 | 1.09 | 0.27 | 11.67 | 1.9  | 1.25 | 0.27 | 11.59 | 1.9  | 1.41 | 0.27 | 11.51 |
| 7 | 3 | 15 | 0.94 | 0.86 | 0.27 | 11.26 | 1.02 | 1.02 | 0.29 | 13.01 | 1.18 | 1.18 | 0.34 | 16.88 | 1.34 | 1.34 | 0.38 | 20.66 | 1.49 | 1.49 | 0.43 | 24.98 |
|   |   | 17 | 1.4  | 0.87 | 0.4  | 22.26 | 1.39 | 1.03 | 0.4  | 22.07 | 1.38 | 1.18 | 0.4  | 21.89 | 1.38 | 1.34 | 0.39 | 21.77 | 1.5  | 1.5  | 0.43 | 25.07 |
|   |   | 19 | -    | -    | -    | -     | 1.89 | 1.03 | 0.55 | 38.03 | 1.88 | 1.19 | 0.54 | 37.81 | 1.88 | 1.35 | 0.54 | 37.56 | 1.87 | 1.51 | 0.54 | 37.3  |
|   |   | 20 | -    | -    | -    | -     | 2.15 | 1.04 | 0.62 | 46.96 | 2.14 | 1.2  | 0.62 | 46.71 | 2.14 | 1.35 | 0.61 | 46.45 | 2.13 | 1.51 | 0.61 | 46.17 |
|   | 4 | 15 | 0.76 | 0.75 | 0.16 | 4.91  | 0.93 | 0.93 | 0.2  | 6.87  | 1.09 | 1.09 | 0.24 | 8.97  | 1.25 | 1.25 | 0.27 | 11.29 | 1.41 | 1.41 | 0.3  | 13.81 |
|   |   | 17 | 1.2  | 0.78 | 0.26 | 10.47 | 1.19 | 0.94 | 0.26 | 10.38 | 1.18 | 1.09 | 0.26 | 10.3  | 1.25 | 1.25 | 0.27 | 11.33 | 1.41 | 1.41 | 0.3  | 13.87 |
|   |   | 19 | -    | -    | -    | -     | 1.68 | 0.94 | 0.36 | 18.61 | 1.68 | 1.1  | 0.36 | 18.47 | 1.67 | 1.26 | 0.36 | 18.34 | 1.66 | 1.41 | 0.36 | 18.19 |
|   |   | 20 | -    | -    | -    | -     | 1.95 | 0.95 | 0.42 | 23.88 | 1.94 | 1.11 | 0.42 | 23.75 | 1.93 | 1.26 | 0.42 | 23.59 | 1.93 | 1.42 | 0.41 | 23.43 |
|   | 5 | 15 | 0.65 | 0.65 | 0.11 | 2.12  | 0.84 | 0.84 | 0.14 | 3.83  | 1    | 1    | 0.17 | 5.26  | 1.16 | 1.16 | 0.2  | 6.77  | 1.32 | 1.32 | 0.23 | 8.4   |
|   |   | 17 | 0.97 | 0.69 | 0.17 | 5.02  | 0.97 | 0.84 | 0.17 | 4.97  | 1    | 0.98 | 0.17 | 5.22  | 1.16 | 1.16 | 0.2  | 6.8   | 1.32 | 1.32 | 0.23 | 8.43  |
|   |   | 19 | -    | -    | -    | -     | 1.47 | 0.86 | 0.25 | 10.1  | 1.47 | 1.01 | 0.25 | 10.02 | 1.44 | 1.09 | 0.25 | 13.4  | 1.45 | 1.33 | 0.25 | 9.93  |
|   |   | 20 | -    | -    | -    | -     | 1.74 | 0.86 | 0.3  | 13.31 | 1.73 | 1.02 | 0.3  | 13.22 | 1.72 | 1.17 | 0.3  | 13.13 | 1.71 | 1.33 | 0.29 | 13.02 |
|   | 6 | 15 | 0.55 | 0.55 | 0.08 | 1.13  | 0.7  | 0.7  | 0.1  | 1.74  | 0.89 | 0.89 | 0.13 | 2.97  | 1.07 | 1.07 | 0.15 | 4.27  | 1.23 | 1.23 | 0.18 | 5.41  |
|   |   | 17 | 0.61 | 0.54 | 0.09 | 1.33  | 0.7  | 0.7  | 0.1  | 1.73  | 0.89 | 0.89 | 0.13 | 2.99  | 1.07 | 1.07 | 0.15 | 4.29  | 1.23 | 1.23 | 0.18 | 5.43  |
|   |   | 19 | -    | -    | -    | -     | 1.25 | 0.76 | 0.18 | 5.56  | 1.24 | 0.92 | 0.18 | 5.51  | 1.23 | 1.08 | 0.18 | 5.46  | 1.23 | 1.23 | 0.18 | 5.47  |
|   |   | 20 | -    | -    | -    | -     | 1.52 | 0.77 | 0.22 | 7.75  | 1.51 | 0.93 | 0.22 | 7.69  | 1.5  | 1.09 | 0.22 | 7.62  | 1.49 | 1.24 | 0.21 | 7.56  |
| 9 | 3 | 15 | 0.7  | 0.7  | 0.2  | 6.8   | 0.86 | 0.86 | 0.25 | 9.61  | 1.02 | 1.02 | 0.29 | 12.62 | 1.17 | 1.17 | 0.33 | 16.15 | 1.33 | 1.33 | 0.38 | 20.04 |
|   |   | 17 | 1.01 | 0.7  | 0.29 | 12.54 | 1.01 | 0.86 | 0.29 | 12.42 | 1.01 | 1    | 0.29 | 12.58 | 1.18 | 1.18 | 0.34 | 16.21 | 1.33 | 1.33 | 0.38 | 20.11 |
|   |   | 19 | -    | -    | -    | -     | 1.5  | 0.87 | 0.43 | 24.69 | 1.49 | 1.03 | 0.43 | 24.49 | 1.49 | 1.18 | 0.42 | 24.29 | 1.48 | 1.34 | 0.42 | 24.1  |
|   |   | 20 | -    | -    | -    | -     | 1.76 | 0.87 | 0.5  | 32.58 | 1.76 | 1.03 | 0.5  | 32.36 | 1.75 | 1.19 | 0.5  | 32.12 | 1.74 | 1.34 | 0.5  | 31.87 |
|   | 4 | 15 | 0.61 | 0.61 | 0.13 | 3.01  | 0.77 | 0.77 | 0.16 | 4.83  | 0.93 | 0.93 | 0.2  | 6.65  | 1.09 | 1.09 | 0.23 | 8.69  | 1.24 | 1.24 | 0.27 | 10.93 |
|   |   | 17 | 0.79 | 0.61 | 0.17 | 5.08  | 0.79 | 0.77 | 0.17 | 5.06  | 0.93 | 0.93 | 0.2  | 6.67  | 1.09 | 1.09 | 0.23 | 8.72  | 1.25 | 1.25 | 0.27 | 10.97 |
|   |   | 19 | -    | -    | -    | -     | 1.29 | 0.78 | 0.28 | 11.6  | 1.28 | 0.94 | 0.28 | 11.49 | 1.27 | 1.09 | 0.27 | 11.39 | 1.27 | 1.25 | 0.27 | 11.37 |
|   |   | 20 | -    | -    | -    | -     | 1.55 | 0.79 | 0.33 | 15.92 | 1.54 | 0.94 | 0.33 | 15.8  | 1.54 | 1.1  | 0.33 | 15.66 | 1.53 | 1.25 | 0.33 | 15.54 |
|   | 5 | 15 | 0.48 | 0.48 | 0.08 | 1.19  | 0.66 | 0.66 | 0.11 | 2.23  | 0.84 | 0.84 | 0.14 | 3.8   | 1    | 1    | 0.17 | 5.11  | 1.16 | 1.16 | 0.2  | 6.55  |
|   |   | 17 | 0.48 | 0.47 | 0.08 | 1.17  | 0.66 | 0.66 | 0.11 | 2.25  | 0.84 | 0.84 | 0.14 | 3.81  | 1    | 1    | 0.17 | 5.13  | 1.16 | 1.16 | 0.2  | 6.57  |
|   |   | 19 | -    | -    | -    | -     | 1.06 | 0.69 | 0.18 | 5.64  | 1.05 | 0.85 | 0.18 | 5.58  | 1.05 | 1    | 0.18 | 5.55  | 1.16 | 1.16 | 0.2  | 6.6   |
|   |   | 20 | -    | -    | -    | -     | 1.32 | 0.7  | 0.23 | 8.25  | 1.32 | 0.85 | 0.23 | 8.17  | 1.31 | 1.01 | 0.22 | 8.1   | 1.3  | 1.16 | 0.22 | 8.04  |
|   | 6 | 15 | 0.42 | 0.42 | 0.06 | 0.77  | 0.55 | 0.55 | 0.08 | 1.09  | 0.72 | 0.72 | 0.1  | 1.81  | 0.9  | 0.9  | 0.13 | 3.1   | 1.07 | 1.07 | 0.15 | 4.21  |
|   |   | 17 | 0.42 | 0.42 | 0.06 | 0.78  | 0.55 | 0.55 | 0.08 | 1.09  | 0.72 | 0.72 | 0.1  | 1.82  | 0.9  | 0.9  | 0.13 | 3.11  | 1.07 | 1.07 | 0.15 | 4.22  |
|   |   | 19 | -    | -    | -    | -     | 0.71 | 0.56 | 0.1  | 1.76  | 0.73 | 0.72 | 0.1  | 1.88  | 0.91 | 0.91 | 0.13 | 3.13  | 1.07 | 1.07 | 0.15 | 4.24  |
|   |   | 20 | -    | -    | -    | -     | 1.08 | 0.61 | 0.16 | 4.31  | 1.07 | 0.76 | 0.15 | 4.26  | 1.07 | 0.92 | 0.15 | 4.22  | 1.07 | 1.07 | 0.15 | 4.25  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11     | 3    | 15                   | 0.54                      | 0.54 | 0.15    | 4.25  | 0.7  | 0.7  | 0.2     | 6.6   | 0.85 | 0.85 | 0.24    | 9.33  | 1.01 | 1.01 | 0.29    | 12.43 | 1.17 | 1.17 | 0.33    | 15.89 |
|        |      | 17                   | 0.6                       | 0.54 | 0.17    | 5.18  | 0.7  | 0.7  | 0.2     | 6.62  | 0.86 | 0.86 | 0.25    | 9.36  | 1.01 | 1.01 | 0.29    | 12.48 | 1.17 | 1.17 | 0.34    | 15.96 |
|        |      | 19                   | -                         | -    | -       | -     | 1.09 | 0.7  | 0.31    | 14.16 | 1.08 | 0.86 | 0.31    | 14.02 | 1.08 | 1.02 | 0.31    | 13.95 | 1.17 | 1.17 | 0.34    | 16.02 |
|        |      | 20                   | -                         | -    | -       | -     | 1.35 | 0.71 | 0.39    | 20.46 | 1.34 | 0.86 | 0.39    | 20.27 | 1.34 | 1.02 | 0.38    | 20.09 | 1.33 | 1.18 | 0.38    | 19.93 |
|        | 4    | 15                   | 0.42                      | 0.42 | 0.09    | 1.38  | 0.61 | 0.61 | 0.13    | 3.16  | 0.77 | 0.77 | 0.17    | 4.79  | 0.93 | 0.93 | 0.2     | 6.56  | 1.08 | 1.08 | 0.23    | 8.56  |
|        |      | 17                   | 0.42                      | 0.42 | 0.09    | 1.39  | 0.61 | 0.61 | 0.13    | 3.2   | 0.77 | 0.77 | 0.17    | 4.8   | 0.93 | 0.93 | 0.2     | 6.59  | 1.08 | 1.08 | 0.23    | 8.59  |
|        |      | 19                   | -                         | -    | -       | -     | 0.86 | 0.62 | 0.19    | 5.81  | 0.86 | 0.77 | 0.18    | 5.76  | 0.93 | 0.92 | 0.2     | 6.59  | 1.09 | 1.09 | 0.23    | 8.62  |
|        |      | 20                   | -                         | -    | -       | -     | 1.12 | 0.62 | 0.24    | 9.15  | 1.12 | 0.78 | 0.24    | 9.05  | 1.11 | 0.93 | 0.24    | 8.97  | 1.11 | 1.09 | 0.24    | 8.97  |
|        | 5    | 15                   | 0.35                      | 0.35 | 0.06    | 0.75  | 0.48 | 0.48 | 0.08    | 1.2   | 0.67 | 0.67 | 0.12    | 2.4   | 0.84 | 0.84 | 0.14    | 3.79  | 1    | 1    | 0.17    | 5.07  |
|        |      | 17                   | 0.35                      | 0.35 | 0.06    | 0.76  | 0.49 | 0.49 | 0.08    | 1.2   | 0.67 | 0.67 | 0.12    | 2.41  | 0.84 | 0.84 | 0.14    | 3.8   | 1    | 1    | 0.17    | 5.08  |
|        |      | 19                   | -                         | -    | -       | -     | 0.51 | 0.49 | 0.09    | 1.31  | 0.67 | 0.67 | 0.12    | 2.42  | 0.84 | 0.84 | 0.15    | 3.82  | 1    | 1    | 0.17    | 5.11  |
|        |      | 20                   | -                         | -    | -       | -     | 0.88 | 0.53 | 0.15    | 4.09  | 0.87 | 0.69 | 0.15    | 4.05  | 0.87 | 0.84 | 0.15    | 4.04  | 1    | 1    | 0.17    | 5.12  |
|        | 6    | 15                   | 0.29                      | 0.29 | 0.04    | 0.5   | 0.42 | 0.42 | 0.06    | 0.74  | 0.55 | 0.55 | 0.08    | 1.08  | 0.73 | 0.73 | 0.1     | 1.9   | 0.9  | 0.9  | 0.13    | 3.14  |
|        |      | 17                   | 0.29                      | 0.29 | 0.04    | 0.5   | 0.42 | 0.42 | 0.06    | 0.74  | 0.55 | 0.55 | 0.08    | 1.09  | 0.73 | 0.73 | 0.1     | 1.92  | 0.91 | 0.91 | 0.13    | 3.15  |
|        |      | 19                   | -                         | -    | -       | -     | 0.42 | 0.42 | 0.06    | 0.74  | 0.55 | 0.55 | 0.08    | 1.09  | 0.73 | 0.73 | 0.1     | 1.93  | 0.91 | 0.91 | 0.13    | 3.16  |
|        |      | 20                   | -                         | -    | -       | -     | 0.5  | 0.4  | 0.07    | 0.93  | 0.55 | 0.53 | 0.08    | 1.07  | 0.73 | 0.73 | 0.11    | 1.94  | 0.91 | 0.91 | 0.13    | 3.17  |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 13 | 3 | 15 | 0.37 | 0.37 | 0.1  | 1.92 | 0.54 | 0.54 | 0.15 | 4.18  | 0.69 | 0.69 | 0.2  | 6.46 | 0.85 | 0.85 | 0.24 | 9.12  | 1.01 | 1.01 | 0.29 | 12.15 |
|    |   | 17 | 0.37 | 0.37 | 0.11 | 1.93 | 0.54 | 0.54 | 0.15 | 4.2   | 0.7  | 0.7  | 0.2  | 6.48 | 0.85 | 0.85 | 0.24 | 9.15  | 1.01 | 1.01 | 0.29 | 12.2  |
|    |   | 19 | -    | -    | -    | -    | 0.66 | 0.54 | 0.19 | 5.87  | 0.69 | 0.67 | 0.2  | 6.38 | 0.85 | 0.85 | 0.25 | 9.19  | 1.01 | 1.01 | 0.29 | 12.08 |
|    |   | 20 | -    | -    | -    | -    | 0.91 | 0.54 | 0.26 | 10.31 | 0.91 | 0.7  | 0.26 | 10.2 | 0.91 | 0.86 | 0.26 | 10.18 | 1.01 | 1.01 | 0.29 | 12.13 |
|    | 4 | 15 | 0.28 | 0.28 | 0.06 | 0.72 | 0.42 | 0.42 | 0.09 | 1.42  | 0.61 | 0.61 | 0.13 | 3.14 | 0.77 | 0.77 | 0.16 | 4.66  | 0.92 | 0.92 | 0.2  | 6.3   |
|    |   | 17 | 0.28 | 0.28 | 0.06 | 0.73 | 0.43 | 0.43 | 0.09 | 1.43  | 0.61 | 0.61 | 0.13 | 3.16 | 0.77 | 0.77 | 0.16 | 4.67  | 0.92 | 0.92 | 0.2  | 6.33  |
|    |   | 19 | -    | -    | -    | -    | 0.42 | 0.42 | 0.09 | 1.42  | 0.61 | 0.61 | 0.13 | 3.17 | 0.77 | 0.77 | 0.17 | 4.69  | 0.92 | 0.92 | 0.2  | 6.35  |
|    |   | 20 | -    | -    | -    | -    | 0.66 | 0.46 | 0.14 | 3.65  | 0.66 | 0.61 | 0.14 | 3.63 | 0.77 | 0.77 | 0.17 | 4.7   | 0.93 | 0.93 | 0.2  | 6.37  |
|    | 5 | 15 | 0.22 | 0.22 | 0.04 | 0.44 | 0.35 | 0.35 | 0.06 | 0.71  | 0.49 | 0.49 | 0.08 | 1.18 | 0.67 | 0.67 | 0.11 | 2.43  | 0.83 | 0.83 | 0.14 | 3.65  |
|    |   | 17 | 0.22 | 0.22 | 0.04 | 0.44 | 0.35 | 0.35 | 0.06 | 0.71  | 0.49 | 0.49 | 0.08 | 1.18 | 0.67 | 0.67 | 0.12 | 2.44  | 0.84 | 0.84 | 0.14 | 3.67  |
|    |   | 19 | -    | -    | -    | -    | 0.35 | 0.35 | 0.06 | 0.71  | 0.49 | 0.49 | 0.08 | 1.19 | 0.67 | 0.67 | 0.12 | 2.46  | 0.84 | 0.84 | 0.14 | 3.68  |
|    |   | 20 | -    | -    | -    | -    | 0.35 | 0.34 | 0.06 | 0.71  | 0.49 | 0.49 | 0.08 | 1.19 | 0.67 | 0.67 | 0.12 | 2.46  | 0.84 | 0.84 | 0.14 | 3.69  |
|    | 6 | 15 | 0.15 | 0.15 | 0.02 | 0.25 | 0.28 | 0.28 | 0.04 | 0.47  | 0.41 | 0.41 | 0.06 | 0.69 | 0.55 | 0.55 | 0.08 | 1.06  | 0.73 | 0.73 | 0.1  | 1.95  |
|    |   | 17 | 0.15 | 0.15 | 0.02 | 0.25 | 0.29 | 0.29 | 0.04 | 0.47  | 0.41 | 0.41 | 0.06 | 0.69 | 0.55 | 0.55 | 0.08 | 1.07  | 0.73 | 0.73 | 0.1  | 1.96  |
|    |   | 19 | -    | -    | -    | -    | 0.29 | 0.29 | 0.04 | 0.47  | 0.42 | 0.42 | 0.06 | 0.7  | 0.55 | 0.55 | 0.08 | 1.07  | 0.73 | 0.73 | 0.11 | 1.98  |
|    |   | 20 | -    | -    | -    | -    | 0.29 | 0.29 | 0.04 | 0.48  | 0.42 | 0.42 | 0.06 | 0.7  | 0.55 | 0.55 | 0.08 | 1.07  | 0.74 | 0.74 | 0.11 | 1.99  |
| 15 | 3 | 15 | 0.21 | 0.21 | 0.06 | 0.7  | 0.37 | 0.37 | 0.11 | 2     | 0.53 | 0.53 | 0.15 | 4.09 | 0.69 | 0.69 | 0.2  | 6.31  | 0.85 | 0.85 | 0.24 | 8.91  |
|    |   | 17 | 0.21 | 0.21 | 0.06 | 0.7  | 0.37 | 0.37 | 0.11 | 2.01  | 0.52 | 0.52 | 0.15 | 4.11 | 0.69 | 0.69 | 0.2  | 6.34  | 0.85 | 0.85 | 0.24 | 8.94  |
|    |   | 19 | -    | -    | -    | -    | 0.37 | 0.37 | 0.11 | 2.03  | 0.54 | 0.54 | 0.15 | 4.12 | 0.69 | 0.69 | 0.2  | 6.36  | 0.85 | 0.85 | 0.24 | 8.98  |
|    |   | 20 | -    | -    | -    | -    | 0.44 | 0.38 | 0.13 | 2.94  | 0.54 | 0.53 | 0.15 | 4.12 | 0.7  | 0.7  | 0.2  | 6.38  | 0.85 | 0.85 | 0.24 | 9     |
|    | 4 | 15 | 0.15 | 0.15 | 0.03 | 0.36 | 0.28 | 0.28 | 0.06 | 0.69  | 0.43 | 0.43 | 0.09 | 1.47 | 0.61 | 0.61 | 0.13 | 3.09  | 0.76 | 0.76 | 0.16 | 4.56  |
|    |   | 17 | 0.15 | 0.15 | 0.03 | 0.36 | 0.28 | 0.28 | 0.06 | 0.69  | 0.43 | 0.43 | 0.09 | 1.48 | 0.61 | 0.61 | 0.13 | 3.1   | 0.76 | 0.76 | 0.16 | 4.57  |
|    |   | 19 | -    | -    | -    | -    | 0.28 | 0.28 | 0.06 | 0.69  | 0.43 | 0.43 | 0.09 | 1.48 | 0.61 | 0.61 | 0.13 | 3.12  | 0.77 | 0.77 | 0.16 | 4.59  |
|    |   | 20 | -    | -    | -    | -    | 0.28 | 0.28 | 0.06 | 0.69  | 0.43 | 0.43 | 0.09 | 1.49 | 0.61 | 0.61 | 0.13 | 3.13  | 0.77 | 0.77 | 0.17 | 4.6   |
|    | 5 | 15 | 0.08 | 0.08 | 0.01 | 0.15 | 0.22 | 0.22 | 0.04 | 0.42  | 0.34 | 0.34 | 0.06 | 0.68 | 0.49 | 0.49 | 0.09 | 1.24  | 0.67 | 0.67 | 0.12 | 2.53  |
|    |   | 17 | 0.08 | 0.08 | 0.01 | 0.15 | 0.22 | 0.22 | 0.04 | 0.42  | 0.35 | 0.35 | 0.06 | 0.68 | 0.49 | 0.49 | 0.09 | 1.25  | 0.68 | 0.68 | 0.12 | 2.54  |
|    |   | 19 | -    | -    | -    | -    | 0.22 | 0.22 | 0.04 | 0.42  | 0.35 | 0.35 | 0.06 | 0.68 | 0.5  | 0.5  | 0.09 | 1.25  | 0.68 | 0.68 | 0.12 | 2.56  |
|    |   | 20 | -    | -    | -    | -    | 0.22 | 0.22 | 0.04 | 0.42  | 0.35 | 0.35 | 0.06 | 0.69 | 0.5  | 0.5  | 0.09 | 1.26  | 0.68 | 0.68 | 0.12 | 2.56  |
|    | 6 | 15 | -    | -    | -    | -    | 0.15 | 0.15 | 0.02 | 0.24  | 0.28 | 0.28 | 0.04 | 0.45 | 0.41 | 0.41 | 0.06 | 0.67  | 0.56 | 0.56 | 0.08 | 1.09  |
|    |   | 17 | -    | -    | -    | -    | 0.15 | 0.15 | 0.02 | 0.24  | 0.28 | 0.28 | 0.04 | 0.45 | 0.41 | 0.41 | 0.06 | 0.67  | 0.56 | 0.56 | 0.08 | 1.1   |
|    |   | 19 | -    | -    | -    | -    | 0.15 | 0.15 | 0.02 | 0.24  | 0.29 | 0.29 | 0.04 | 0.45 | 0.42 | 0.42 | 0.06 | 0.67  | 0.56 | 0.56 | 0.08 | 1.1   |
|    |   | 20 | -    | -    | -    | -    | 0.15 | 0.15 | 0.02 | 0.24  | 0.29 | 0.29 | 0.04 | 0.45 | 0.41 | 0.41 | 0.06 | 0.67  | 0.56 | 0.56 | 0.08 | 1.11  |

## Abbreviations:

EWT: Enter Water Temp. (°C)      Δt: Temperature Difference (°C)      DB: Dry Bulb Temp. (°C)      WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)      TC: Total Cooling Capacity (kW)      SC: Sensible Cooling Capacity (kW)      WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 5      | 3    | 15                   | 2                         | 1.58 | 0.58    | 21.19 | 1.99 | 1.82 | 0.57    | 21    | 2.07 | 2.07 | 0.59    | 22.44 | 2.31 | 2.31 | 0.66    | 26.8  | 2.56 | 2.56 | 0.73    | 31.86 |  |
|        |      | 17                   | 2.71                      | 1.59 | 0.77    | 35.29 | 2.7  | 1.84 | 0.77    | 35.07 | 2.69 | 2.08 | 0.77    | 34.83 | 2.68 | 2.32 | 0.77    | 34.56 | 2.67 | 2.56 | 0.76    | 34.33 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.47 | 1.85 | 0.99    | 54.13 | 3.46 | 2.09 | 0.99    | 53.85 | 3.45 | 2.34 | 0.99    | 53.61 | 3.44 | 2.58 | 0.98    | 53.28 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.88 | 1.86 | 1.12    | 66.83 | 3.87 | 2.1  | 1.12    | 66.5  | 3.86 | 2.35 | 1.11    | 66.16 | 3.85 | 2.59 | 1.11    | 65.83 |  |
|        | 4    | 15                   | 1.69                      | 1.44 | 0.36    | 9.59  | 1.69 | 1.68 | 0.36    | 9.57  | 1.93 | 1.93 | 0.41    | 11.97 | 2.17 | 2.17 | 0.47    | 14.67 | 2.42 | 2.42 | 0.52    | 17.77 |  |
|        |      | 17                   | 2.42                      | 1.46 | 0.52    | 17.75 | 2.41 | 1.7  | 0.52    | 17.63 | 2.4  | 1.94 | 0.52    | 17.49 | 2.39 | 2.18 | 0.51    | 17.36 | 2.42 | 2.4  | 0.52    | 17.74 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.17 | 1.71 | 0.68    | 27.96 | 3.16 | 1.95 | 0.68    | 27.81 | 3.15 | 2.2  | 0.67    | 27.65 | 3.14 | 2.44 | 0.67    | 27.48 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.58 | 1.72 | 0.77    | 34.55 | 3.57 | 1.96 | 0.77    | 34.37 | 3.56 | 2.21 | 0.76    | 34.19 | 3.55 | 2.45 | 0.76    | 34    |  |
|        | 5    | 15                   | 1.36                      | 1.29 | 0.23    | 4.49  | 1.54 | 1.54 | 0.26    | 5.58  | 1.79 | 1.79 | 0.31    | 7.18  | 2.03 | 2.03 | 0.35    | 8.93  | 2.28 | 2.28 | 0.39    | 10.82 |  |
|        |      | 17                   | 2.1                       | 1.31 | 0.36    | 9.42  | 2.09 | 1.56 | 0.36    | 9.34  | 2.08 | 1.8  | 0.36    | 9.26  | 2.06 | 2    | 0.35    | 9.09  | 2.28 | 2.28 | 0.39    | 10.86 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.87 | 1.57 | 0.49    | 16.13 | 2.86 | 1.82 | 0.49    | 16.03 | 2.85 | 2.06 | 0.49    | 15.93 | 2.84 | 2.3  | 0.49    | 15.81 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.28 | 1.58 | 0.56    | 20.21 | 3.26 | 1.82 | 0.56    | 20.1  | 3.25 | 2.07 | 0.56    | 19.99 | 3.24 | 2.31 | 0.56    | 19.87 |  |
|        | 6    | 15                   | 1.05                      | 1.05 | 0.15    | 1.7   | 1.36 | 1.36 | 0.19    | 3     | 1.64 | 1.64 | 0.23    | 4.55  | 1.89 | 1.89 | 0.27    | 5.81  | 2.14 | 2.14 | 0.31    | 7.16  |  |
|        |      | 17                   | 1.76                      | 1.17 | 0.25    | 5.15  | 1.75 | 1.41 | 0.25    | 5.09  | 1.74 | 1.65 | 0.25    | 5.03  | 1.9  | 1.9  | 0.27    | 5.83  | 2.15 | 2.15 | 0.31    | 7.19  |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.55 | 1.43 | 0.36    | 9.59  | 2.54 | 1.68 | 0.36    | 9.52  | 2.52 | 1.92 | 0.36    | 9.45  | 2.51 | 2.16 | 0.36    | 9.37  |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.95 | 1.44 | 0.42    | 12.34 | 2.94 | 1.69 | 0.42    | 12.27 | 2.93 | 1.93 | 0.42    | 12.19 | 2.92 | 2.17 | 0.42    | 12.11 |  |
| 7      | 3    | 15                   | 1.44                      | 1.33 | 0.41    | 11.85 | 1.57 | 1.57 | 0.45    | 13.69 | 1.82 | 1.82 | 0.52    | 17.77 | 2.06 | 2.06 | 0.59    | 21.71 | 2.3  | 2.3  | 0.66    | 26.31 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 2.15 | 1.34 | 0.62 | 23.45 | 2.14 | 1.58 | 0.61 | 23.25 | 2.13 | 1.82 | 0.61 | 23.05 | 2.12 | 2.06 | 0.61 | 22.89 | 2.31 | 2.31 | 0.66 | 26.4  |
|   |   | 19 | -    | -    | -    | -     | 2.91 | 1.59 | 0.84 | 40.05 | 2.9  | 1.84 | 0.84 | 39.83 | 2.89 | 2.08 | 0.84 | 39.57 | 2.88 | 2.32 | 0.83 | 39.28 |
|   |   | 20 | -    | -    | -    | -     | 3.31 | 1.6  | 0.95 | 49.47 | 3.3  | 1.84 | 0.95 | 49.2  | 3.29 | 2.08 | 0.94 | 48.93 | 3.28 | 2.33 | 0.94 | 48.74 |
|   |   | 15 | 1.18 | 1.16 | 0.25 | 5.17  | 1.44 | 1.44 | 0.31 | 7.23  | 1.68 | 1.68 | 0.36 | 9.44  | 1.92 | 1.92 | 0.42 | 11.88 | 2.17 | 2.17 | 0.47 | 14.54 |
|   |   | 17 | 1.84 | 1.2  | 0.4  | 11.02 | 1.83 | 1.44 | 0.4  | 10.91 | 1.82 | 1.69 | 0.39 | 10.83 | 1.93 | 1.93 | 0.42 | 11.92 | 2.17 | 2.17 | 0.47 | 14.6  |
|   |   | 19 | -    | -    | -    | -     | 2.59 | 1.45 | 0.56 | 19.6  | 2.58 | 1.7  | 0.55 | 19.46 | 2.57 | 1.94 | 0.55 | 19.3  | 2.56 | 2.18 | 0.55 | 19.15 |
|   |   | 20 | -    | -    | -    | -     | 3    | 1.46 | 0.64 | 25.15 | 2.99 | 1.71 | 0.64 | 25    | 2.98 | 1.95 | 0.64 | 24.85 | 2.97 | 2.19 | 0.64 | 24.67 |
|   |   | 15 | 0.99 | 0.99 | 0.17 | 2.23  | 1.29 | 1.29 | 0.22 | 4.07  | 1.54 | 1.54 | 0.27 | 5.53  | 1.79 | 1.79 | 0.31 | 7.13  | 2.03 | 2.03 | 0.35 | 8.84  |
|   |   | 17 | 1.5  | 1.06 | 0.26 | 5.29  | 1.49 | 1.3  | 0.26 | 5.23  | 1.53 | 1.51 | 0.26 | 5.49  | 1.79 | 1.79 | 0.31 | 7.15  | 2.04 | 2.04 | 0.35 | 8.88  |
|   |   | 19 | -    | -    | -    | -     | 2.27 | 1.32 | 0.39 | 10.64 | 2.26 | 1.56 | 0.39 | 10.54 | 2.23 | 1.7  | 0.38 | 12.7  | 2.24 | 2.04 | 0.38 | 10.38 |
|   |   | 20 | -    | -    | -    | -     | 2.67 | 1.32 | 0.46 | 14.01 | 2.66 | 1.57 | 0.46 | 13.91 | 2.65 | 1.81 | 0.46 | 13.81 | 2.64 | 2.05 | 0.45 | 13.7  |
|   |   | 15 | 0.82 | 0.82 | 0.12 | 1.12  | 1.07 | 1.07 | 0.15 | 1.79  | 1.38 | 1.38 | 0.2  | 3.2   | 1.64 | 1.64 | 0.24 | 4.5   | 1.89 | 1.89 | 0.27 | 5.7   |
|   |   | 17 | 0.87 | 0.81 | 0.12 | 1.23  | 1.07 | 1.07 | 0.15 | 1.79  | 1.38 | 1.38 | 0.2  | 3.22  | 1.65 | 1.65 | 0.24 | 4.52  | 1.9  | 1.9  | 0.27 | 5.72  |
|   |   | 19 | -    | -    | -    | -     | 1.92 | 1.18 | 0.28 | 5.86  | 1.91 | 1.42 | 0.27 | 5.8   | 1.9  | 1.66 | 0.27 | 5.74  | 1.9  | 1.9  | 0.27 | 5.76  |
|   |   | 20 | -    | -    | -    | -     | 2.34 | 1.19 | 0.34 | 8.16  | 2.33 | 1.43 | 0.33 | 8.09  | 2.31 | 1.67 | 0.33 | 8.02  | 2.3  | 1.91 | 0.33 | 7.95  |
|   | 5 | 15 | 1.08 | 1.08 | 0.31 | 7.15  | 1.32 | 1.32 | 0.38 | 10.03 | 1.56 | 1.56 | 0.45 | 13.29 | 1.81 | 1.81 | 0.52 | 17.01 | 2.05 | 2.05 | 0.59 | 21.1  |
|   |   | 17 | 1.56 | 1.08 | 0.45 | 13.21 | 1.55 | 1.33 | 0.44 | 13.08 | 1.56 | 1.55 | 0.45 | 13.26 | 1.81 | 1.81 | 0.52 | 17.07 | 2.05 | 2.05 | 0.59 | 21.18 |
|   |   | 19 | -    | -    | -    | -     | 2.31 | 1.34 | 0.66 | 26.01 | 2.3  | 1.58 | 0.66 | 25.79 | 2.29 | 1.82 | 0.65 | 25.57 | 2.28 | 2.06 | 0.65 | 25.38 |
|   |   | 20 | -    | -    | -    | -     | 2.72 | 1.34 | 0.78 | 34.33 | 2.71 | 1.59 | 0.77 | 34.1  | 2.69 | 1.83 | 0.77 | 33.85 | 2.68 | 2.07 | 0.77 | 33.59 |
|   |   | 15 | 0.93 | 0.93 | 0.2  | 3.27  | 1.18 | 1.18 | 0.25 | 5.08  | 1.43 | 1.43 | 0.31 | 7     | 1.67 | 1.67 | 0.36 | 9.15  | 1.92 | 1.92 | 0.41 | 11.51 |
|   |   | 17 | 1.22 | 0.95 | 0.26 | 5.34  | 1.22 | 1.19 | 0.26 | 5.34  | 1.43 | 1.43 | 0.31 | 7.03  | 1.68 | 1.68 | 0.36 | 9.18  | 1.92 | 1.92 | 0.41 | 11.55 |
|   |   | 19 | -    | -    | -    | -     | 1.98 | 1.2  | 0.42 | 12.11 | 1.97 | 1.44 | 0.42 | 11.99 | 1.96 | 1.68 | 0.42 | 11.89 | 1.96 | 1.92 | 0.42 | 11.9  |
|   |   | 20 | -    | -    | -    | -     | 2.39 | 1.21 | 0.51 | 16.77 | 2.38 | 1.45 | 0.51 | 16.63 | 2.37 | 1.69 | 0.51 | 16.49 | 2.35 | 1.93 | 0.51 | 16.36 |
|   |   | 15 | 0.72 | 0.72 | 0.12 | 1.18  | 1.01 | 1.01 | 0.17 | 2.39  | 1.29 | 1.29 | 0.22 | 4.01  | 1.54 | 1.54 | 0.26 | 5.38  | 1.78 | 1.78 | 0.31 | 6.89  |
|   |   | 17 | 0.71 | 0.69 | 0.12 | 1.16  | 1.01 | 1.01 | 0.17 | 2.41  | 1.29 | 1.29 | 0.22 | 4.02  | 1.54 | 1.54 | 0.26 | 5.4   | 1.78 | 1.78 | 0.31 | 6.92  |
|   |   | 19 | -    | -    | -    | -     | 1.63 | 1.06 | 0.28 | 5.93  | 1.62 | 1.31 | 0.28 | 5.87  | 1.61 | 1.55 | 0.28 | 5.84  | 1.79 | 1.79 | 0.31 | 6.94  |
|   |   | 20 | -    | -    | -    | -     | 2.04 | 1.07 | 0.35 | 8.68  | 2.03 | 1.32 | 0.35 | 8.61  | 2.02 | 1.56 | 0.35 | 8.52  | 2.01 | 1.8  | 0.34 | 8.46  |
|   | 6 | 15 | 0.62 | 0.62 | 0.09 | 0.77  | 0.82 | 0.82 | 0.12 | 1.08  | 1.09 | 1.09 | 0.16 | 1.9   | 1.39 | 1.39 | 0.2  | 3.31  | 1.64 | 1.64 | 0.24 | 4.43  |
|   |   | 17 | 0.62 | 0.62 | 0.09 | 0.77  | 0.81 | 0.81 | 0.12 | 1.09  | 1.1  | 1.1  | 0.16 | 1.91  | 1.39 | 1.39 | 0.2  | 3.32  | 1.65 | 1.65 | 0.24 | 4.45  |
|   |   | 19 | -    | -    | -    | -     | 1.02 | 0.84 | 0.15 | 1.64  | 1.11 | 1.11 | 0.16 | 1.95  | 1.4  | 1.4  | 0.2  | 3.34  | 1.65 | 1.65 | 0.24 | 4.46  |
|   |   | 20 | -    | -    | -    | -     | 1.67 | 0.93 | 0.24 | 4.54  | 1.65 | 1.17 | 0.24 | 4.49  | 1.64 | 1.41 | 0.24 | 4.44  | 1.65 | 1.65 | 0.24 | 4.47  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11     | 3    | 15                   | 0.83                      | 0.83 | 0.24    | 4.48  | 1.07 | 1.07 | 0.31    | 6.94  | 1.32 | 1.32 | 0.38    | 9.82  | 1.56 | 1.56 | 0.45    | 13.09 | 1.8  | 1.8  | 0.52    | 16.74 |
|        |      | 17                   | 0.93                      | 0.83 | 0.27    | 5.46  | 1.07 | 1.07 | 0.31    | 6.97  | 1.32 | 1.32 | 0.38    | 9.86  | 1.56 | 1.56 | 0.45    | 13.14 | 1.8  | 1.8  | 0.52    | 16.81 |
|        |      | 19                   | -                         | -    | -       | -     | 1.68 | 1.09 | 0.48    | 14.91 | 1.67 | 1.33 | 0.48    | 14.76 | 1.67 | 1.57 | 0.48    | 14.68 | 1.81 | 1.81 | 0.52    | 16.88 |
|        |      | 20                   | -                         | -    | -       | -     | 2.08 | 1.09 | 0.6     | 21.56 | 2.07 | 1.33 | 0.6     | 21.36 | 2.06 | 1.57 | 0.59    | 21.16 | 2.05 | 1.81 | 0.59    | 20.99 |
|        | 4    | 15                   | 0.63                      | 0.63 | 0.14    | 1.41  | 0.94 | 0.94 | 0.2     | 3.37  | 1.18 | 1.18 | 0.26    | 5.04  | 1.43 | 1.43 | 0.31    | 6.91  | 1.67 | 1.67 | 0.36    | 9.01  |
|        |      | 17                   | 0.63                      | 0.63 | 0.14    | 1.41  | 0.94 | 0.94 | 0.2     | 3.4   | 1.19 | 1.19 | 0.26    | 5.06  | 1.43 | 1.43 | 0.31    | 6.94  | 1.67 | 1.67 | 0.36    | 9.05  |
|        |      | 19                   | -                         | -    | -       | -     | 1.33 | 0.95 | 0.29    | 6.11  | 1.32 | 1.19 | 0.28    | 6.06  | 1.43 | 1.42 | 0.31    | 6.94  | 1.67 | 1.67 | 0.36    | 9.08  |
|        |      | 20                   | -                         | -    | -       | -     | 1.73 | 0.96 | 0.37    | 9.63  | 1.72 | 1.2  | 0.37    | 9.53  | 1.71 | 1.44 | 0.37    | 9.45  | 1.71 | 1.68 | 0.37    | 9.45  |
|        | 5    | 15                   | 0.52                      | 0.52 | 0.09    | 0.75  | 0.73 | 0.73 | 0.13    | 1.21  | 1.03 | 1.03 | 0.18    | 2.59  | 1.29 | 1.29 | 0.22    | 3.99  | 1.53 | 1.53 | 0.27    | 5.33  |
|        |      | 17                   | 0.52                      | 0.52 | 0.09    | 0.75  | 0.73 | 0.73 | 0.13    | 1.21  | 1.03 | 1.03 | 0.18    | 2.6   | 1.29 | 1.29 | 0.22    | 4     | 1.54 | 1.54 | 0.27    | 5.35  |
|        |      | 19                   | -                         | -    | -       | -     | 0.74 | 0.74 | 0.13    | 1.24  | 1.03 | 1.03 | 0.18    | 2.61  | 1.3  | 1.3  | 0.22    | 4.02  | 1.54 | 1.54 | 0.27    | 5.38  |
|        |      | 20                   | -                         | -    | -       | -     | 1.35 | 0.82 | 0.23    | 4.3   | 1.34 | 1.06 | 0.23    | 4.27  | 1.34 | 1.3  | 0.23    | 4.26  | 1.54 | 1.54 | 0.27    | 5.39  |
|        | 6    | 15                   | 0.43                      | 0.43 | 0.06    | 0.5   | 0.62 | 0.62 | 0.09    | 0.73  | 0.82 | 0.82 | 0.12    | 1.08  | 1.12 | 1.12 | 0.16    | 2.04  | 1.39 | 1.39 | 0.2     | 3.32  |
|        |      | 17                   | 0.43                      | 0.43 | 0.06    | 0.5   | 0.62 | 0.62 | 0.09    | 0.73  | 0.82 | 0.82 | 0.12    | 1.09  | 1.12 | 1.12 | 0.16    | 2.05  | 1.4  | 1.4  | 0.2     | 3.33  |
|        |      | 19                   | -                         | -    | -       | -     | 0.62 | 0.62 | 0.09    | 0.74  | 0.83 | 0.83 | 0.12    | 1.09  | 1.12 | 1.12 | 0.16    | 2.06  | 1.4  | 1.4  | 0.2     | 3.34  |
|        |      | 20                   | -                         | -    | -       | -     | 0.71 | 0.6  | 0.1     | 0.86  | 0.82 | 0.81 | 0.12    | 1.08  | 1.12 | 1.12 | 0.16    | 2.07  | 1.4  | 1.4  | 0.2     | 3.35  |
| 13     | 3    | 15                   | 0.56                      | 0.56 | 0.16    | 2.05  | 0.83 | 0.83 | 0.24    | 4.4   | 1.07 | 1.07 | 0.31    | 6.8   | 1.31 | 1.31 | 0.38    | 9.61  | 1.55 | 1.55 | 0.44    | 12.61 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.56 | 0.56 | 0.16 | 2.07 | 0.83 | 0.83 | 0.24 | 4.42  | 1.07 | 1.07 | 0.31 | 6.83  | 1.31 | 1.31 | 0.38 | 9.64  | 1.55 | 1.55 | 0.44 | 12.66 |
|    |   | 19 | -    | -    | -    | -    | 1.01 | 0.83 | 0.29 | 6.17  | 1.06 | 1.03 | 0.3  | 6.72  | 1.32 | 1.32 | 0.38 | 9.68  | 1.56 | 1.56 | 0.44 | 12.71 |
|    |   | 20 | -    | -    | -    | -    | 1.41 | 0.84 | 0.4  | 10.86 | 1.4  | 1.08 | 0.4  | 10.74 | 1.4  | 1.32 | 0.4  | 10.71 | 1.56 | 1.56 | 0.44 | 12.74 |
|    |   | 15 | 0.41 | 0.41 | 0.09 | 0.72 | 0.65 | 0.65 | 0.14 | 1.47  | 0.93 | 0.93 | 0.2  | 3.32  | 1.18 | 1.18 | 0.25 | 4.9   | 1.42 | 1.42 | 0.3  | 6.64  |
|    |   | 17 | 0.41 | 0.41 | 0.09 | 0.72 | 0.65 | 0.65 | 0.14 | 1.48  | 0.94 | 0.94 | 0.2  | 3.33  | 1.18 | 1.18 | 0.25 | 4.92  | 1.42 | 1.42 | 0.3  | 6.67  |
|    |   | 19 | -    | -    | -    | -    | 0.65 | 0.65 | 0.14 | 1.48  | 0.94 | 0.94 | 0.2  | 3.34  | 1.18 | 1.18 | 0.25 | 4.88  | 1.42 | 1.42 | 0.31 | 6.69  |
|    |   | 20 | -    | -    | -    | -    | 1.02 | 0.7  | 0.22 | 3.84  | 1.02 | 0.94 | 0.22 | 3.83  | 1.19 | 1.18 | 0.26 | 4.95  | 1.43 | 1.43 | 0.31 | 6.71  |
|    |   | 15 | 0.32 | 0.32 | 0.06 | 0.44 | 0.51 | 0.51 | 0.09 | 0.7   | 0.73 | 0.73 | 0.13 | 1.2   | 1.04 | 1.04 | 0.18 | 2.61  | 1.29 | 1.29 | 0.22 | 3.85  |
|    |   | 17 | 0.32 | 0.32 | 0.06 | 0.44 | 0.51 | 0.51 | 0.09 | 0.7   | 0.74 | 0.74 | 0.13 | 1.21  | 1.04 | 1.04 | 0.18 | 2.62  | 1.29 | 1.29 | 0.22 | 3.86  |
|    |   | 19 | -    | -    | -    | -    | 0.51 | 0.51 | 0.09 | 0.7   | 0.74 | 0.74 | 0.13 | 1.21  | 1.04 | 1.04 | 0.18 | 2.64  | 1.29 | 1.29 | 0.22 | 3.88  |
|    |   | 20 | -    | -    | -    | -    | 0.51 | 0.47 | 0.09 | 0.69  | 0.74 | 0.74 | 0.13 | 1.22  | 1.04 | 1.04 | 0.18 | 2.65  | 1.29 | 1.29 | 0.22 | 3.89  |
|    |   | 15 | 0.23 | 0.23 | 0.03 | 0.25 | 0.42 | 0.42 | 0.06 | 0.47  | 0.61 | 0.61 | 0.09 | 0.69  | 0.83 | 0.83 | 0.12 | 1.07  | 1.13 | 1.13 | 0.16 | 2.1   |
|    |   | 17 | 0.23 | 0.23 | 0.03 | 0.25 | 0.42 | 0.42 | 0.06 | 0.47  | 0.61 | 0.61 | 0.09 | 0.69  | 0.83 | 0.83 | 0.12 | 1.08  | 1.13 | 1.13 | 0.16 | 2.12  |
|    |   | 19 | -    | -    | -    | -    | 0.43 | 0.43 | 0.06 | 0.47  | 0.62 | 0.62 | 0.09 | 0.69  | 0.83 | 0.83 | 0.12 | 1.08  | 1.14 | 1.14 | 0.16 | 2.13  |
|    |   | 20 | -    | -    | -    | -    | 0.43 | 0.43 | 0.06 | 0.47  | 0.62 | 0.62 | 0.09 | 0.69  | 0.83 | 0.83 | 0.12 | 1.08  | 1.14 | 1.14 | 0.16 | 2.14  |
|    | 5 | 15 | 0.31 | 0.31 | 0.09 | 0.69 | 0.57 | 0.57 | 0.16 | 2.16  | 0.82 | 0.82 | 0.24 | 4.31  | 1.07 | 1.07 | 0.31 | 6.65  | 1.3  | 1.3  | 0.37 | 9.39  |
|    |   | 17 | 0.31 | 0.31 | 0.09 | 0.7  | 0.57 | 0.57 | 0.16 | 2.17  | 0.83 | 0.83 | 0.24 | 4.32  | 1.07 | 1.07 | 0.31 | 6.67  | 1.31 | 1.31 | 0.38 | 9.42  |
|    |   | 19 | -    | -    | -    | -    | 0.57 | 0.57 | 0.16 | 2.19  | 0.83 | 0.83 | 0.24 | 4.34  | 1.07 | 1.07 | 0.31 | 6.7   | 1.31 | 1.31 | 0.38 | 9.46  |
|    |   | 20 | -    | -    | -    | -    | 0.68 | 0.58 | 0.19 | 3.1   | 0.83 | 0.82 | 0.24 | 4.33  | 1.07 | 1.07 | 0.31 | 6.72  | 1.31 | 1.31 | 0.38 | 9.48  |
|    | 6 | 15 | 0.22 | 0.22 | 0.05 | 0.36 | 0.41 | 0.41 | 0.09 | 0.68  | 0.66 | 0.66 | 0.14 | 1.55  | 0.93 | 0.93 | 0.2  | 3.26  | 1.17 | 1.17 | 0.25 | 4.8   |
|    |   | 17 | 0.22 | 0.22 | 0.05 | 0.36 | 0.41 | 0.41 | 0.09 | 0.68  | 0.66 | 0.66 | 0.14 | 1.56  | 0.94 | 0.94 | 0.2  | 3.27  | 1.18 | 1.18 | 0.25 | 4.82  |
|    |   | 19 | -    | -    | -    | -    | 0.41 | 0.41 | 0.09 | 0.69  | 0.66 | 0.66 | 0.14 | 1.57  | 0.94 | 0.94 | 0.2  | 3.27  | 1.18 | 1.18 | 0.25 | 4.84  |
|    |   | 20 | -    | -    | -    | -    | 0.41 | 0.41 | 0.09 | 0.69  | 0.66 | 0.66 | 0.14 | 1.58  | 0.94 | 0.94 | 0.2  | 3.29  | 1.18 | 1.18 | 0.25 | 4.85  |
|    | 7 | 15 | 0.12 | 0.12 | 0.02 | 0.16 | 0.32 | 0.32 | 0.06 | 0.42  | 0.51 | 0.51 | 0.09 | 0.68  | 0.75 | 0.75 | 0.13 | 1.29  | 1.04 | 1.04 | 0.18 | 2.69  |
|    |   | 17 | 0.12 | 0.12 | 0.02 | 0.16 | 0.32 | 0.32 | 0.06 | 0.42  | 0.51 | 0.51 | 0.09 | 0.68  | 0.75 | 0.75 | 0.13 | 1.3   | 1.04 | 1.04 | 0.18 | 2.7   |
|    |   | 19 | -    | -    | -    | -    | 0.32 | 0.32 | 0.06 | 0.42  | 0.51 | 0.51 | 0.09 | 0.68  | 0.76 | 0.76 | 0.13 | 1.3   | 1.05 | 1.05 | 0.18 | 2.71  |
|    |   | 20 | -    | -    | -    | -    | 0.32 | 0.32 | 0.06 | 0.42  | 0.51 | 0.51 | 0.09 | 0.68  | 0.76 | 0.76 | 0.13 | 1.31  | 1.05 | 1.05 | 0.18 | 2.72  |
|    | 8 | 15 | -    | -    | -    | -    | 0.23 | 0.23 | 0.03 | 0.24  | 0.42 | 0.42 | 0.06 | 0.45  | 0.61 | 0.61 | 0.09 | 0.66  | 0.84 | 0.84 | 0.12 | 1.12  |
|    |   | 17 | -    | -    | -    | -    | 0.23 | 0.23 | 0.03 | 0.24  | 0.42 | 0.42 | 0.06 | 0.45  | 0.61 | 0.61 | 0.09 | 0.67  | 0.85 | 0.85 | 0.12 | 1.13  |
|    |   | 19 | -    | -    | -    | -    | 0.23 | 0.23 | 0.03 | 0.24  | 0.42 | 0.42 | 0.06 | 0.45  | 0.61 | 0.61 | 0.09 | 0.67  | 0.85 | 0.85 | 0.12 | 1.13  |
|    |   | 20 | -    | -    | -    | -    | 0.23 | 0.23 | 0.03 | 0.24  | 0.42 | 0.42 | 0.06 | 0.45  | 0.61 | 0.61 | 0.09 | 0.67  | 0.85 | 0.85 | 0.12 | 1.14  |

| (none) |      |                      |                           |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 3.05                      | 2.4  | 0.87    | 57.4  | 3.04 | 2.76 | 0.87    | 57.04  | 3.13 | 3.12 | 0.9     | 60.92  | 3.49 | 3.49 | 1.01    | 73.54  | 3.86 | 3.86 | 1.11    | 86.51  |  |
|        |      | 17                   | 4.12                      | 2.41 | 1.18    | 96.86 | 4.1  | 2.77 | 1.18    | 96.29  | 4.09 | 3.14 | 1.17    | 95.64  | 4.07 | 3.5  | 1.17    | 94.89  | 4.06 | 3.86 | 1.16    | 94.5   |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.25 | 2.79 | 1.51    | 149.3  | 5.24 | 3.16 | 1.51    | 148.92 | 5.23 | 3.53 | 1.51    | 149.06 | 5.2  | 3.88 | 1.5     | 146.66 |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.87 | 2.8  | 1.69    | 180.94 | 5.85 | 3.17 | 1.69    | 179.98 | 5.83 | 3.54 | 1.68    | 179.06 | 5.81 | 3.9  | 1.68    | 178.13 |  |
|        | 4    | 15                   | 2.63                      | 2.2  | 0.57    | 27.05 | 2.65 | 2.57 | 0.57    | 27.27  | 2.93 | 2.93 | 0.63    | 32.37  | 3.3  | 3.3  | 0.71    | 39.65  | 3.66 | 3.66 | 0.78    | 47.47  |  |
|        |      | 17                   | 3.7                       | 2.22 | 0.79    | 48.36 | 3.68 | 2.58 | 0.79    | 48     | 3.67 | 2.94 | 0.79    | 47.6   | 3.65 | 3.3  | 0.78    | 47.32  | 3.7  | 3.67 | 0.79    | 48.41  |  |
|        |      | 19                   | -                         | -    | -       | -     | 4.84 | 2.6  | 1.04    | 77.73  | 4.82 | 2.97 | 1.04    | 77.3   | 4.81 | 3.33 | 1.04    | 76.84  | 4.79 | 3.69 | 1.03    | 76.35  |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.44 | 2.61 | 1.17    | 94.74  | 5.42 | 2.97 | 1.17    | 94.26  | 5.41 | 3.34 | 1.16    | 93.76  | 5.39 | 3.7  | 1.16    | 93.23  |  |
|        | 5    | 15                   | 2.2                       | 2    | 0.38    | 13.52 | 2.37 | 2.37 | 0.41    | 15.44  | 2.74 | 2.74 | 0.47    | 19.7   | 3.1  | 3.1  | 0.53    | 24.16  | 3.47 | 3.47 | 0.6     | 29.5   |  |
|        |      | 17                   | 3.26                      | 2.02 | 0.56    | 26.35 | 3.25 | 2.38 | 0.56    | 26.12  | 3.23 | 2.74 | 0.55    | 25.92  | 3.25 | 3.11 | 0.56    | 26.12  | 3.48 | 3.47 | 0.6     | 29.61  |  |
|        |      | 19                   | -                         | -    | -       | -     | 4.39 | 2.4  | 0.75    | 44.02  | 4.38 | 2.77 | 0.75    | 43.74  | 4.36 | 3.13 | 0.75    | 43.43  | 4.34 | 3.49 | 0.74    | 43.11  |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.01 | 2.41 | 0.86    | 55.42  | 5    | 2.78 | 0.86    | 55.13  | 4.98 | 3.14 | 0.86    | 54.82  | 4.96 | 3.5  | 0.85    | 54.47  |  |
|        | 6    | 15                   | 1.81                      | 1.81 | 0.26    | 7.15  | 2.17 | 2.17 | 0.31    | 9.72   | 2.54 | 2.54 | 0.36    | 12.65  | 2.91 | 2.91 | 0.42    | 15.89  | 3.27 | 3.27 | 0.47    | 19.28  |  |
|        |      | 17                   | 2.81                      | 1.82 | 0.4     | 15.01 | 2.8  | 2.19 | 0.4     | 14.89  | 2.8  | 2.55 | 0.4     | 14.9   | 2.93 | 2.92 | 0.42    | 16.1   | 3.28 | 3.28 | 0.47    | 19.35  |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.95 | 2.21 | 0.56    | 26.59  | 3.93 | 2.57 | 0.56    | 26.39  | 3.91 | 2.93 | 0.56    | 26.18  | 3.9  | 3.29 | 0.56    | 26.01  |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.56 | 2.22 | 0.65    | 34.32  | 4.55 | 2.58 | 0.65    | 34.12  | 4.53 | 2.95 | 0.65    | 33.9   | 4.51 | 3.31 | 0.65    | 33.65  |  |
| 7      | 3    | 15                   | 2.24                      | 2.02 | 0.65    | 33.62 | 2.38 | 2.38 | 0.69    | 37.48  | 2.74 | 2.74 | 0.79    | 47.28  | 3.11 | 3.11 | 0.9     | 59.18  | 3.48 | 3.48 | 1.01    | 72.29  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
|   |   | 17 | 3.29 | 2.03 | 0.95 | 65.24 | 3.27 | 2.4  | 0.94 | 64.69  | 3.25 | 2.75 | 0.94 | 63.53  | 3.25 | 3.12 | 0.94 | 63.56  | 3.48 | 3.48 | 1.01 | 72.55  |
|   |   | 19 | -    | -    | -    | -     | 4.43 | 2.41 | 1.29 | 110.79 | 4.41 | 2.78 | 1.28 | 110.13 | 4.39 | 3.14 | 1.28 | 109.32 | 4.36 | 3.5  | 1.26 | 106.6  |
|   |   | 20 | -    | -    | -    | -     | 5.02 | 2.42 | 1.46 | 137.16 | 5.01 | 2.78 | 1.45 | 136.42 | 4.99 | 3.15 | 1.45 | 135.68 | 4.98 | 3.51 | 1.44 | 134.83 |
|   |   | 15 | 1.85 | 1.83 | 0.4  | 14.72 | 2.19 | 2.19 | 0.47 | 19.38  | 2.55 | 2.55 | 0.55 | 25.24  | 2.92 | 2.92 | 0.63 | 32.1   | 3.28 | 3.28 | 0.71 | 38.84  |
|   | 4 | 17 | 2.85 | 1.84 | 0.62 | 30.74 | 2.83 | 2.2  | 0.61 | 30.46  | 2.83 | 2.57 | 0.61 | 30.37  | 2.94 | 2.93 | 0.64 | 32.45  | 3.29 | 3.29 | 0.71 | 39.74  |
|   |   | 19 | -    | -    | -    | -     | 3.97 | 2.21 | 0.85 | 54.06  | 3.95 | 2.58 | 0.85 | 53.63  | 3.93 | 2.94 | 0.85 | 53.2   | 3.92 | 3.3  | 0.84 | 52.79  |
|   |   | 20 | -    | -    | -    | -     | 4.58 | 2.23 | 0.99 | 69.72  | 4.57 | 2.59 | 0.99 | 69.3   | 4.54 | 2.95 | 0.98 | 68.24  | 4.52 | 3.31 | 0.97 | 67.87  |
|   |   | 15 | 1.64 | 1.64 | 0.28 | 8.06  | 2    | 2    | 0.34 | 11.32  | 2.36 | 2.36 | 0.41 | 14.99  | 2.73 | 2.73 | 0.47 | 19.15  | 3.09 | 3.09 | 0.53 | 23.71  |
|   | 5 | 17 | 2.37 | 1.64 | 0.41 | 15.13 | 2.37 | 2    | 0.41 | 15.05  | 2.43 | 2.37 | 0.42 | 15.71  | 2.73 | 2.73 | 0.47 | 19.22  | 3.09 | 3.09 | 0.53 | 23.8   |
|   |   | 19 | -    | -    | -    | -     | 3.52 | 2.02 | 0.61 | 29.85  | 3.5  | 2.39 | 0.6  | 29.61  | 3.41 | 2.58 | 0.58 | 33.4   | 3.48 | 3.11 | 0.6  | 29.28  |
|   |   | 20 | -    | -    | -    | -     | 4.12 | 2.03 | 0.71 | 38.85  | 4.1  | 2.39 | 0.71 | 38.59  | 4.08 | 2.76 | 0.7  | 38.3   | 4.06 | 3.12 | 0.7  | 37.99  |
|   |   | 15 | 1.4  | 1.4  | 0.2  | 4.47  | 1.8  | 1.8  | 0.26 | 6.94   | 2.17 | 2.17 | 0.31 | 9.51   | 2.53 | 2.53 | 0.36 | 12.32  | 2.9  | 2.9  | 0.42 | 15.54  |
|   | 6 | 17 | 1.89 | 1.44 | 0.27 | 7.53  | 1.91 | 1.81 | 0.27 | 7.7    | 2.17 | 2.17 | 0.31 | 9.54   | 2.54 | 2.54 | 0.36 | 12.37  | 2.9  | 2.9  | 0.42 | 15.6   |
|   |   | 19 | -    | -    | -    | -     | 3.03 | 1.83 | 0.44 | 16.79  | 3.02 | 2.19 | 0.43 | 16.64  | 3.01 | 2.55 | 0.43 | 16.57  | 3.05 | 2.92 | 0.44 | 16.97  |
|   |   | 20 | -    | -    | -    | -     | 3.65 | 1.84 | 0.52 | 23.06  | 3.63 | 2.2  | 0.52 | 22.86  | 3.61 | 2.56 | 0.52 | 22.55  | 3.59 | 2.92 | 0.52 | 22.4   |
|   |   | 15 | 1.64 | 1.64 | 0.47 | 19.1  | 2.01 | 2.01 | 0.58 | 27.37  | 2.37 | 2.37 | 0.68 | 35.91  | 2.74 | 2.74 | 0.79 | 46.62  | 3.09 | 3.09 | 0.89 | 57.03  |
| 9 | 3 | 17 | 2.4  | 1.65 | 0.69 | 36.68 | 2.39 | 2.01 | 0.68 | 36.4   | 2.42 | 2.38 | 0.69 | 37.28  | 2.74 | 2.74 | 0.79 | 46.8   | 3.1  | 3.1  | 0.89 | 57.27  |
|   |   | 19 | -    | -    | -    | -     | 3.53 | 2.03 | 1.02 | 72.9   | 3.52 | 2.39 | 1.02 | 72.27  | 3.5  | 2.76 | 1.01 | 71.91  | 3.48 | 3.11 | 1.01 | 70.95  |
|   |   | 20 | -    | -    | -    | -     | 4.13 | 2.03 | 1.19 | 94.67  | 4.11 | 2.4  | 1.18 | 94.29  | 4.1  | 2.76 | 1.18 | 94.34  | 4.09 | 3.13 | 1.18 | 94.18  |
|   |   | 15 | 1.45 | 1.45 | 0.31 | 9.5   | 1.82 | 1.82 | 0.39 | 13.83  | 2.18 | 2.18 | 0.47 | 19.11  | 2.55 | 2.55 | 0.55 | 24.85  | 2.9  | 2.9  | 0.62 | 30.87  |
|   | 4 | 17 | 1.93 | 1.46 | 0.42 | 15.46 | 1.95 | 1.83 | 0.42 | 15.67  | 2.19 | 2.18 | 0.47 | 19.18  | 2.55 | 2.55 | 0.55 | 24.94  | 2.91 | 2.91 | 0.62 | 30.99  |
|   |   | 19 | -    | -    | -    | -     | 3.05 | 1.83 | 0.66 | 33.63  | 3.04 | 2.2  | 0.65 | 33.32  | 3.02 | 2.56 | 0.65 | 33.09  | 3.05 | 2.92 | 0.65 | 33.54  |
|   |   | 20 | -    | -    | -    | -     | 3.67 | 1.85 | 0.79 | 46.64  | 3.65 | 2.21 | 0.79 | 46.26  | 3.63 | 2.57 | 0.78 | 45.87  | 3.62 | 2.93 | 0.78 | 45.52  |
|   |   | 15 | 1.25 | 1.25 | 0.21 | 5.03  | 1.62 | 1.62 | 0.28 | 7.81   | 1.99 | 1.99 | 0.34 | 11.01  | 2.35 | 2.35 | 0.4  | 14.64  | 2.71 | 2.71 | 0.47 | 18.68  |
|   | 5 | 17 | 1.44 | 1.26 | 0.25 | 6.36  | 1.63 | 1.62 | 0.28 | 7.85   | 1.99 | 1.99 | 0.34 | 11.05  | 2.36 | 2.36 | 0.4  | 14.69  | 2.72 | 2.72 | 0.47 | 18.75  |
|   |   | 19 | -    | -    | -    | -     | 2.56 | 1.64 | 0.44 | 16.91  | 2.55 | 2    | 0.44 | 16.79  | 2.57 | 2.37 | 0.44 | 16.96  | 2.74 | 2.73 | 0.47 | 18.98  |
|   |   | 20 | -    | -    | -    | -     | 3.17 | 1.65 | 0.54 | 24.32  | 3.15 | 2.01 | 0.54 | 24.09  | 3.14 | 2.37 | 0.54 | 23.89  | 3.13 | 2.73 | 0.54 | 23.83  |
|   |   | 15 | 0.95 | 0.95 | 0.14 | 1.88  | 1.42 | 1.42 | 0.2  | 4.56   | 1.8  | 1.8  | 0.26 | 6.81   | 2.17 | 2.17 | 0.31 | 9.31   | 2.53 | 2.53 | 0.36 | 12.13  |
|   | 6 | 17 | 0.95 | 0.95 | 0.14 | 1.89  | 1.43 | 1.43 | 0.2  | 4.58   | 1.8  | 1.8  | 0.26 | 6.84   | 2.17 | 2.17 | 0.31 | 9.35   | 2.53 | 2.53 | 0.36 | 12.17  |
|   |   | 19 | -    | -    | -    | -     | 2.05 | 1.45 | 0.29 | 8.52   | 2.06 | 1.81 | 0.3  | 8.58   | 2.21 | 2.18 | 0.32 | 9.64   | 2.54 | 2.54 | 0.36 | 12.22  |
|   |   | 20 | -    | -    | -    | -     | 2.65 | 1.46 | 0.38 | 13.08  | 2.64 | 1.82 | 0.38 | 12.97  | 2.63 | 2.18 | 0.38 | 12.93  | 2.69 | 2.55 | 0.38 | 13.39  |

Continued:

| (none) |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|--------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT    | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|        |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|        |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]   | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11     | 3    | 15                | 1.27                      | 1.27 | 0.36   | 12.25 | 1.64 | 1.64 | 0.47   | 18.82 | 2    | 2    | 0.57   | 26.55 | 2.36 | 2.36 | 0.68   | 35.59 | 2.72 | 2.72 | 0.78   | 45.18 |
|        |      | 17                | 1.48                      | 1.27 | 0.42   | 15.78 | 1.64 | 1.63 | 0.47   | 18.9  | 2    | 2    | 0.58   | 26.66 | 2.37 | 2.37 | 0.68   | 35.72 | 2.72 | 2.72 | 0.78   | 45.35 |
|        |      | 19                | -                         | -    | -      | -     | 2.59 | 1.65 | 0.75   | 41.98 | 2.57 | 2.01 | 0.75   | 41.6  | 2.58 | 2.37 | 0.75   | 41.65 | 2.73 | 2.72 | 0.79   | 45.57 |
|        |      | 20                | -                         | -    | -      | -     | 3.18 | 1.66 | 0.92   | 59.44 | 3.17 | 2.02 | 0.91   | 58.9  | 3.15 | 2.38 | 0.91   | 58.37 | 3.14 | 2.74 | 0.9    | 58.02 |
|        | 4    | 15                | 1.08                      | 1.08 | 0.23   | 5.71  | 1.45 | 1.45 | 0.31   | 9.38  | 1.81 | 1.81 | 0.39   | 13.59 | 2.17 | 2.17 | 0.47   | 18.56 | 2.53 | 2.53 | 0.55   | 24.15 |
|        |      | 17                | 1.08                      | 1.06 | 0.23   | 5.72  | 1.45 | 1.45 | 0.31   | 9.42  | 1.81 | 1.81 | 0.39   | 13.65 | 2.18 | 2.18 | 0.47   | 18.63 | 2.54 | 2.54 | 0.55   | 24.24 |
|        |      | 19                | -                         | -    | -      | -     | 2.08 | 1.46 | 0.45   | 17.21 | 2.08 | 1.82 | 0.45   | 17.25 | 2.21 | 2.19 | 0.48   | 19.1  | 2.54 | 2.54 | 0.55   | 24.34 |
|        |      | 20                | -                         | -    | -      | -     | 2.68 | 1.47 | 0.58   | 26.61 | 2.67 | 1.83 | 0.57   | 26.41 | 2.66 | 2.19 | 0.57   | 26.4  | 2.68 | 2.55 | 0.58   | 26.71 |
|        | 5    | 15                | 0.81                      | 0.81 | 0.14   | 1.98  | 1.26 | 1.26 | 0.22   | 5.01  | 1.62 | 1.62 | 0.28   | 7.74  | 1.99 | 1.99 | 0.34   | 10.9  | 2.34 | 2.34 | 0.4    | 14.35 |
|        |      | 17                | 0.81                      | 0.81 | 0.14   | 1.99  | 1.26 | 1.26 | 0.22   | 5.04  | 1.63 | 1.63 | 0.28   | 7.77  | 1.99 | 1.99 | 0.34   | 10.94 | 2.35 | 2.35 | 0.4    | 14.4  |
|        |      | 19                | -                         | -    | -      | -     | 1.56 | 1.26 | 0.27   | 7.27  | 1.67 | 1.64 | 0.29   | 8.14  | 1.99 | 1.99 | 0.34   | 10.98 | 2.35 | 2.35 | 0.41   | 14.46 |
|        |      | 20                | -                         | -    | -      | -     | 2.15 | 1.27 | 0.37   | 12.36 | 2.14 | 1.63 | 0.37   | 12.28 | 2.17 | 2    | 0.37   | 12.58 | 2.37 | 2.36 | 0.41   | 14.64 |
|        | 6    | 15                | 0.62                      | 0.62 | 0.09   | 0.97  | 0.98 | 0.98 | 0.14   | 2     | 1.43 | 1.43 | 0.21   | 4.55  | 1.79 | 1.79 | 0.26   | 6.65  | 2.15 | 2.15 | 0.31   | 9.08  |
|        |      | 17                | 0.62                      | 0.62 | 0.09   | 0.97  | 0.98 | 0.98 | 0.14   | 2.02  | 1.43 | 1.43 | 0.21   | 4.57  | 1.79 | 1.79 | 0.26   | 6.67  | 2.16 | 2.16 | 0.31   | 9.11  |
|        |      | 19                | -                         | -    | -      | -     | 0.98 | 0.98 | 0.14   | 2.02  | 1.43 | 1.43 | 0.21   | 4.59  | 1.8  | 1.8  | 0.26   | 6.7   | 2.16 | 2.16 | 0.31   | 9.15  |
|        |      | 20                | -                         | -    | -      | -     | 1.59 | 1.07 | 0.23   | 5.43  | 1.61 | 1.44 | 0.23   | 5.55  | 1.82 | 1.81 | 0.26   | 6.83  | 2.17 | 2.17 | 0.31   | 9.17  |
| 13     | 3    | 15                | 0.9                       | 0.9  | 0.26   | 6.75  | 1.27 | 1.27 | 0.36   | 11.99 | 1.63 | 1.63 | 0.47   | 18.44 | 1.99 | 1.99 | 0.57   | 25.97 | 2.35 | 2.35 | 0.67   | 34.11 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.9  | 0.9  | 0.26 | 6.78 | 1.27 | 1.27 | 0.36 | 12.04 | 1.63 | 1.63 | 0.47 | 18.5  | 1.99 | 1.99 | 0.57 | 26.07 | 2.35 | 2.35 | 0.67 | 34.24 |
|    |   | 19 | -    | -    | -    | -    | 1.59 | 1.27 | 0.46 | 17.64 | 1.66 | 1.65 | 0.48 | 19.1  | 2    | 2    | 0.57 | 26.17 | 2.36 | 2.36 | 0.67 | 34.38 |
|    |   | 20 | -    | -    | -    | -    | 2.17 | 1.28 | 0.62 | 29.96 | 2.16 | 1.64 | 0.62 | 29.67 | 2.17 | 2    | 0.62 | 29.95 | 2.36 | 2.35 | 0.67 | 34.47 |
|    |   | 15 | 0.66 | 0.66 | 0.14 | 2.04 | 1.07 | 1.07 | 0.23 | 5.49  | 1.44 | 1.44 | 0.31 | 9.01  | 1.8  | 1.8  | 0.39 | 13.19 | 2.16 | 2.16 | 0.47 | 18.19 |
|    |   | 17 | 0.66 | 0.66 | 0.14 | 2.06 | 1.08 | 1.08 | 0.23 | 5.51  | 1.44 | 1.44 | 0.31 | 9.05  | 1.81 | 1.81 | 0.39 | 13.24 | 2.17 | 2.17 | 0.47 | 18.26 |
|    |   | 19 | -    | -    | -    | -    | 1.11 | 1.1  | 0.24 | 5.76  | 1.45 | 1.45 | 0.31 | 9.08  | 1.81 | 1.81 | 0.39 | 13.29 | 2.17 | 2.17 | 0.47 | 18.33 |
|    |   | 20 | -    | -    | -    | -    | 1.63 | 1.09 | 0.35 | 11.17 | 1.65 | 1.45 | 0.35 | 11.3  | 1.83 | 1.82 | 0.39 | 13.51 | 2.18 | 2.18 | 0.47 | 18.37 |
|    |   | 15 | 0.47 | 0.47 | 0.08 | 0.84 | 0.83 | 0.83 | 0.14 | 2.04  | 1.25 | 1.25 | 0.21 | 4.85  | 1.62 | 1.62 | 0.28 | 7.47  | 1.98 | 1.98 | 0.34 | 10.51 |
|    |   | 17 | 0.47 | 0.47 | 0.08 | 0.85 | 0.83 | 0.83 | 0.14 | 2.05  | 1.25 | 1.25 | 0.21 | 4.87  | 1.62 | 1.62 | 0.28 | 7.5   | 1.98 | 1.98 | 0.34 | 10.55 |
|    |   | 19 | -    | -    | -    | -    | 0.83 | 0.83 | 0.14 | 2.07  | 1.26 | 1.26 | 0.22 | 4.89  | 1.62 | 1.62 | 0.28 | 7.53  | 1.99 | 1.99 | 0.34 | 10.59 |
|    |   | 20 | -    | -    | -    | -    | 1.04 | 0.88 | 0.18 | 3.51  | 1.27 | 1.26 | 0.22 | 4.95  | 1.63 | 1.63 | 0.28 | 7.54  | 1.99 | 1.99 | 0.34 | 10.61 |
|    |   | 15 | 0.34 | 0.34 | 0.05 | 0.49 | 0.62 | 0.62 | 0.09 | 0.92  | 1    | 1    | 0.14 | 2.1   | 1.42 | 1.42 | 0.2  | 4.42  | 1.79 | 1.79 | 0.26 | 6.49  |
|    |   | 17 | 0.34 | 0.34 | 0.05 | 0.49 | 0.62 | 0.62 | 0.09 | 0.92  | 1    | 1    | 0.14 | 2.11  | 1.43 | 1.43 | 0.2  | 4.44  | 1.79 | 1.79 | 0.26 | 6.51  |
|    |   | 19 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.92  | 1.01 | 1.01 | 0.14 | 2.13  | 1.43 | 1.43 | 0.2  | 4.46  | 1.8  | 1.8  | 0.26 | 6.54  |
|    |   | 20 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.92  | 1.01 | 1.01 | 0.14 | 2.13  | 1.43 | 1.43 | 0.2  | 4.47  | 1.8  | 1.8  | 0.26 | 6.56  |
|    | 5 | 15 | 0.5  | 0.5  | 0.14 | 2.14 | 0.9  | 0.9  | 0.26 | 6.6   | 1.26 | 1.26 | 0.36 | 11.73 | 1.62 | 1.62 | 0.47 | 18.26 | 1.98 | 1.98 | 0.57 | 25.34 |
|    |   | 17 | 0.51 | 0.51 | 0.15 | 2.15 | 0.9  | 0.9  | 0.26 | 6.63  | 1.26 | 1.26 | 0.36 | 11.77 | 1.63 | 1.63 | 0.47 | 18.33 | 1.98 | 1.98 | 0.57 | 25.43 |
|    |   | 19 | -    | -    | -    | -    | 0.9  | 0.9  | 0.26 | 6.65  | 1.27 | 1.27 | 0.36 | 11.82 | 1.63 | 1.63 | 0.47 | 18.4  | 1.99 | 1.99 | 0.57 | 25.54 |
|    |   | 20 | -    | -    | -    | -    | 1.11 | 0.91 | 0.32 | 9.44  | 1.27 | 1.26 | 0.37 | 11.91 | 1.63 | 1.63 | 0.47 | 18.44 | 1.99 | 1.99 | 0.57 | 25.59 |
|    | 6 | 15 | 0.32 | 0.32 | 0.07 | 0.7  | 0.68 | 0.68 | 0.15 | 2.19  | 1.07 | 1.07 | 0.23 | 5.46  | 1.44 | 1.44 | 0.31 | 9.03  | 1.8  | 1.8  | 0.39 | 13.18 |
|    |   | 17 | 0.32 | 0.32 | 0.07 | 0.7  | 0.68 | 0.68 | 0.15 | 2.2   | 1.08 | 1.08 | 0.23 | 5.48  | 1.45 | 1.45 | 0.31 | 9.07  | 1.8  | 1.8  | 0.39 | 13.23 |
|    |   | 19 | -    | -    | -    | -    | 0.68 | 0.68 | 0.15 | 2.22  | 1.08 | 1.08 | 0.23 | 5.5   | 1.45 | 1.45 | 0.31 | 9.11  | 1.8  | 1.8  | 0.39 | 13.28 |
|    |   | 20 | -    | -    | -    | -    | 0.68 | 0.68 | 0.15 | 2.22  | 1.08 | 1.08 | 0.23 | 5.51  | 1.45 | 1.45 | 0.31 | 9.13  | 1.81 | 1.81 | 0.39 | 13.31 |
|    | 7 | 15 | 0.18 | 0.18 | 0.03 | 0.31 | 0.47 | 0.47 | 0.08 | 0.81  | 0.85 | 0.85 | 0.15 | 2.28  | 1.25 | 1.25 | 0.22 | 4.84  | 1.61 | 1.61 | 0.28 | 7.43  |
|    |   | 17 | 0.18 | 0.18 | 0.03 | 0.31 | 0.47 | 0.47 | 0.08 | 0.81  | 0.86 | 0.86 | 0.15 | 2.29  | 1.25 | 1.25 | 0.22 | 4.86  | 1.62 | 1.62 | 0.28 | 7.46  |
|    |   | 19 | -    | -    | -    | -    | 0.47 | 0.47 | 0.08 | 0.81  | 0.86 | 0.86 | 0.15 | 2.31  | 1.26 | 1.26 | 0.22 | 4.88  | 1.62 | 1.62 | 0.28 | 7.49  |
|    |   | 20 | -    | -    | -    | -    | 0.47 | 0.47 | 0.08 | 0.81  | 0.86 | 0.86 | 0.15 | 2.32  | 1.26 | 1.26 | 0.22 | 4.89  | 1.62 | 1.62 | 0.28 | 7.51  |
|    | 8 | 15 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.47  | 0.62 | 0.62 | 0.09 | 0.88  | 1.03 | 1.03 | 0.15 | 2.31  | 1.42 | 1.42 | 0.2  | 4.4   |
|    |   | 17 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.47  | 0.62 | 0.62 | 0.09 | 0.89  | 1.03 | 1.03 | 0.15 | 2.32  | 1.43 | 1.43 | 0.21 | 4.42  |
|    |   | 19 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.47  | 0.62 | 0.62 | 0.09 | 0.89  | 1.03 | 1.03 | 0.15 | 2.34  | 1.42 | 1.42 | 0.21 | 4.44  |
|    |   | 20 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.47  | 0.62 | 0.62 | 0.09 | 0.89  | 1.04 | 1.04 | 0.15 | 2.35  | 1.43 | 1.43 | 0.21 | 4.45  |

| (none) |      |                      |                           |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|        |      |                      | 21                        |      |         |        | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 3.94                      | 3.08 | 1.14    | 90.84  | 3.91 | 3.54 | 1.12    | 88.51  | 4.02 | 4.02 | 1.16    | 93.43  | 4.48 | 4.48 | 1.3     | 114.44 | 4.95 | 4.95 | 1.44    | 136.77 |  |
|        |      | 17                   | 5.29                      | 3.1  | 1.52    | 150.94 | 5.27 | 3.56 | 1.52    | 150.16 | 5.25 | 4.03 | 1.51    | 149.26 | 5.23 | 4.5  | 1.51    | 148.78 | 5.22 | 4.96 | 1.51    | 148.31 |  |
|        |      | 19                   | -                         | -    | -       | -      | 6.74 | 3.58 | 1.94    | 230.8  | 6.72 | 4.05 | 1.94    | 229.57 | 6.7  | 4.52 | 1.93    | 228.43 | 6.68 | 4.98 | 1.93    | 227.21 |  |
|        |      | 20                   | -                         | -    | -       | -      | 7.53 | 3.59 | 2.17    | 280    | 7.5  | 4.06 | 2.16    | 278.52 | 7.48 | 4.53 | 2.16    | 277.07 | 7.46 | 5    | 2.15    | 275.66 |  |
|        | 4    | 15                   | 3.4                       | 2.83 | 0.73    | 41.78  | 3.43 | 3.3  | 0.74    | 42.49  | 3.77 | 3.77 | 0.81    | 49.93  | 4.24 | 4.24 | 0.91    | 61.89  | 4.7  | 4.7  | 1.02    | 74.18  |  |
|        |      | 17                   | 4.77                      | 2.85 | 1.03    | 75.93  | 4.75 | 3.32 | 1.03    | 75.42  | 4.73 | 3.79 | 1.02    | 74.82  | 4.71 | 4.25 | 1.02    | 74.35  | 4.79 | 4.72 | 1.03    | 76.45  |  |
|        |      | 19                   | -                         | -    | -       | -      | 6.21 | 3.33 | 1.34    | 119.65 | 6.19 | 3.8  | 1.33    | 119    | 6.17 | 4.27 | 1.33    | 118.34 | 6.15 | 4.73 | 1.32    | 117.58 |  |
|        |      | 20                   | -                         | -    | -       | -      | 7    | 3.35 | 1.52    | 149.29 | 6.97 | 3.81 | 1.5     | 146.83 | 6.95 | 4.28 | 1.5     | 146.04 | 6.93 | 4.75 | 1.5     | 145.34 |  |
|        | 5    | 15                   | 2.86                      | 2.58 | 0.49    | 21.06  | 3.07 | 3.06 | 0.53    | 23.76  | 3.53 | 3.53 | 0.61    | 30.39  | 3.99 | 3.99 | 0.69    | 37.63  | 4.46 | 4.46 | 0.76    | 45.1   |  |
|        |      | 17                   | 4.21                      | 2.6  | 0.72    | 40.87  | 4.19 | 3.06 | 0.72    | 40.48  | 4.17 | 3.53 | 0.72    | 40.46  | 4.2  | 4    | 0.72    | 40.78  | 4.47 | 4.46 | 0.77    | 45.3   |  |
|        |      | 19                   | -                         | -    | -       | -      | 5.67 | 3.09 | 0.98    | 68.74  | 5.65 | 3.56 | 0.97    | 68.34  | 5.63 | 4.02 | 0.97    | 67.88  | 5.6  | 4.49 | 0.96    | 67.36  |  |
|        |      | 20                   | -                         | -    | -       | -      | 6.45 | 3.1  | 1.11    | 86.56  | 6.43 | 3.57 | 1.11    | 86.07  | 6.41 | 4.04 | 1.11    | 85.59  | 6.39 | 4.5  | 1.1     | 85.08  |  |
|        | 6    | 15                   | 2.41                      | 2.34 | 0.35    | 11.59  | 2.81 | 2.81 | 0.4     | 15     | 3.28 | 3.28 | 0.47    | 19.36  | 3.75 | 3.75 | 0.54    | 24.33  | 4.22 | 4.22 | 0.6     | 30     |  |
|        |      | 17                   | 3.64                      | 2.35 | 0.52    | 23.14  | 3.62 | 2.82 | 0.52    | 22.92  | 3.63 | 3.29 | 0.52    | 23.05  | 3.81 | 3.76 | 0.54    | 25.08  | 4.23 | 4.23 | 0.61    | 30.11  |  |
|        |      | 19                   | -                         | -    | -       | -      | 5.1  | 2.84 | 0.73    | 41.69  | 5.09 | 3.31 | 0.73    | 41.41  | 5.06 | 3.78 | 0.73    | 41.04  | 5.04 | 4.24 | 0.72    | 40.76  |  |
|        |      | 20                   | -                         | -    | -       | -      | 5.87 | 2.85 | 0.84    | 52.7   | 5.85 | 3.32 | 0.84    | 52.38  | 5.83 | 3.78 | 0.83    | 52.05  | 5.8  | 4.25 | 0.83    | 51.67  |  |
| 7      | 3    | 15                   | 2.88                      | 2.59 | 0.83    | 51.25  | 3.07 | 3.07 | 0.89    | 58.17  | 3.53 | 3.53 | 1.02    | 73.45  | 4    | 4    | 1.15    | 91.21  | 4.46 | 4.46 | 1.29    | 110.92 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 4.23 | 2.6  | 1.24 | 103.06 | 4.21 | 3.08 | 1.22 | 100.86 | 4.2  | 3.54 | 1.22 | 100.54 | 4.2  | 4.01 | 1.22 | 100.6  | 4.47 | 4.47 | 1.29 | 111.29 |
|   |   | 19 | -    | -    | -    | -      | 5.68 | 3.1  | 1.66 | 172.08 | 5.67 | 3.56 | 1.65 | 171.04 | 5.65 | 4.03 | 1.65 | 170.1  | 5.62 | 4.49 | 1.64 | 168.86 |
|   |   | 20 | -    | -    | -    | -      | 6.46 | 3.1  | 1.88 | 215.23 | 6.44 | 3.57 | 1.88 | 214.03 | 6.42 | 4.04 | 1.87 | 212.84 | 6.4  | 4.51 | 1.86 | 211.68 |
|   |   | 15 | 2.42 | 2.36 | 0.52 | 22.98  | 2.83 | 2.83 | 0.61 | 30.32  | 3.29 | 3.29 | 0.71 | 39.01  | 3.76 | 3.76 | 0.81 | 49.61  | 4.22 | 4.22 | 0.91 | 60.29  |
|   |   | 17 | 3.68 | 2.37 | 0.8  | 47.76  | 3.65 | 2.83 | 0.79 | 47.27  | 3.65 | 3.3  | 0.79 | 47.19  | 3.8  | 3.77 | 0.82 | 50.66  | 4.23 | 4.23 | 0.91 | 60.51  |
|   |   | 19 | -    | -    | -    | -      | 5.12 | 2.85 | 1.11 | 85.29  | 5.11 | 3.32 | 1.11 | 84.75  | 5.08 | 3.78 | 1.1  | 84.06  | 5.06 | 4.25 | 1.1  | 83.37  |
|   |   | 20 | -    | -    | -    | -      | 5.89 | 2.86 | 1.28 | 108.4  | 5.88 | 3.33 | 1.28 | 108.47 | 5.86 | 3.8  | 1.27 | 108.06 | 5.84 | 4.26 | 1.27 | 107.28 |
|   |   | 15 | 2.1  | 2.1  | 0.36 | 12.33  | 2.58 | 2.58 | 0.44 | 17.41  | 3.05 | 3.05 | 0.52 | 23.17  | 3.52 | 3.52 | 0.61 | 29.87  | 3.98 | 3.98 | 0.68 | 36.64  |
|   |   | 17 | 3.08 | 2.12 | 0.53 | 23.59  | 3.07 | 2.58 | 0.53 | 23.48  | 3.17 | 3.06 | 0.55 | 24.87  | 3.52 | 3.52 | 0.61 | 29.97  | 3.98 | 3.98 | 0.69 | 36.76  |
|   |   | 19 | -    | -    | -    | -      | 4.54 | 2.61 | 0.78 | 46.43  | 4.52 | 3.07 | 0.78 | 46.02  | 4.25 | 3.21 | 0.73 | 53.5   | 4.49 | 4    | 0.78 | 45.53  |
|   |   | 20 | -    | -    | -    | -      | 5.3  | 2.61 | 0.91 | 59.96  | 5.28 | 3.08 | 0.91 | 59.94  | 5.26 | 3.54 | 0.91 | 59.46  | 5.23 | 4    | 0.9  | 58.97  |
|   |   | 15 | 1.86 | 1.86 | 0.27 | 7.32   | 2.33 | 2.33 | 0.33 | 10.77  | 2.8  | 2.8  | 0.4  | 14.65  | 3.28 | 3.28 | 0.47 | 19.21  | 3.74 | 3.74 | 0.54 | 24.1   |
|   |   | 17 | 2.47 | 1.87 | 0.35 | 11.86  | 2.53 | 2.34 | 0.36 | 12.3   | 2.82 | 2.81 | 0.41 | 14.87  | 3.28 | 3.28 | 0.47 | 19.28  | 3.75 | 3.75 | 0.54 | 24.18  |
|   |   | 19 | -    | -    | -    | -      | 3.93 | 2.36 | 0.57 | 26.27  | 3.91 | 2.82 | 0.56 | 26.01  | 3.9  | 3.29 | 0.56 | 25.9   | 3.99 | 3.76 | 0.57 | 26.89  |
|   |   | 20 | -    | -    | -    | -      | 4.7  | 2.37 | 0.67 | 35.53  | 4.68 | 2.83 | 0.67 | 35.24  | 4.66 | 3.3  | 0.67 | 34.9   | 4.64 | 3.76 | 0.66 | 34.66  |
|   | 5 | 15 | 2.12 | 2.12 | 0.61 | 29.99  | 2.59 | 2.59 | 0.75 | 42.37  | 3.05 | 3.05 | 0.88 | 56.46  | 3.52 | 3.52 | 1.02 | 72.36  | 3.98 | 3.98 | 1.15 | 90.05  |
|   |   | 17 | 3.09 | 2.12 | 0.89 | 57.07  | 3.08 | 2.59 | 0.88 | 56.6   | 3.15 | 3.07 | 0.92 | 60.6   | 3.52 | 3.52 | 1.02 | 72.6   | 3.99 | 3.99 | 1.16 | 90.34  |
|   |   | 19 | -    | -    | -    | -      | 4.56 | 2.61 | 1.32 | 114.26 | 4.53 | 3.08 | 1.32 | 113.34 | 4.51 | 3.54 | 1.31 | 112.31 | 4.48 | 4    | 1.29 | 109.34 |
|   |   | 20 | -    | -    | -    | -      | 5.31 | 2.61 | 1.53 | 148.21 | 5.3  | 3.08 | 1.53 | 147.33 | 5.28 | 3.55 | 1.53 | 146.9  | 5.26 | 4.01 | 1.53 | 146.89 |
|   |   | 15 | 1.87 | 1.87 | 0.4  | 14.61  | 2.34 | 2.34 | 0.5  | 21.51  | 2.81 | 2.81 | 0.6  | 29.17  | 3.27 | 3.27 | 0.7  | 38.03  | 3.74 | 3.74 | 0.8  | 47.81  |
|   |   | 17 | 2.51 | 1.88 | 0.54 | 24.24  | 2.54 | 2.36 | 0.55 | 24.79  | 2.82 | 2.82 | 0.6  | 29.33  | 3.28 | 3.28 | 0.7  | 38.16  | 3.74 | 3.74 | 0.8  | 47.96  |
|   |   | 19 | -    | -    | -    | -      | 3.95 | 2.37 | 0.85 | 53.19  | 3.93 | 2.83 | 0.85 | 52.67  | 3.92 | 3.29 | 0.85 | 52.29  | 3.96 | 3.76 | 0.85 | 53.27  |
|   |   | 20 | -    | -    | -    | -      | 4.73 | 2.38 | 1.02 | 72.74  | 4.71 | 2.84 | 1.02 | 72.18  | 4.69 | 3.31 | 1.01 | 71.55  | 4.66 | 3.77 | 1.01 | 70.93  |
|   |   | 15 | 1.63 | 1.63 | 0.28 | 7.86   | 2.1  | 2.1  | 0.36 | 12.1   | 2.57 | 2.57 | 0.44 | 17.03  | 3.04 | 3.04 | 0.52 | 22.64  | 3.5  | 3.5  | 0.6  | 29.02  |
|   |   | 17 | 1.9  | 1.64 | 0.33 | 10.15  | 2.14 | 2.11 | 0.37 | 12.44  | 2.58 | 2.58 | 0.44 | 17.09  | 3.04 | 3.04 | 0.52 | 22.72  | 3.51 | 3.51 | 0.6  | 29.12  |
|   |   | 19 | -    | -    | -    | -      | 3.32 | 2.12 | 0.57 | 26.37  | 3.3  | 2.58 | 0.57 | 26.16  | 3.34 | 3.05 | 0.57 | 26.66  | 3.56 | 3.52 | 0.61 | 29.92  |
|   |   | 20 | -    | -    | -    | -      | 4.11 | 2.13 | 0.71 | 38.37  | 4.09 | 2.6  | 0.7  | 37.98  | 4.06 | 3.06 | 0.7  | 37.62  | 4.06 | 3.52 | 0.7  | 37.58  |
|   | 6 | 15 | 1.36 | 1.36 | 0.2  | 4.18   | 1.86 | 1.86 | 0.27 | 7.21   | 2.33 | 2.33 | 0.33 | 10.59  | 2.8  | 2.8  | 0.4  | 14.33  | 3.26 | 3.26 | 0.47 | 18.63  |
|   |   | 17 | 1.36 | 1.34 | 0.2  | 4.17   | 1.86 | 1.86 | 0.27 | 7.23   | 2.34 | 2.34 | 0.34 | 10.62  | 2.8  | 2.8  | 0.4  | 14.38  | 3.27 | 3.27 | 0.47 | 18.69  |
|   |   | 19 | -    | -    | -    | -      | 2.67 | 1.87 | 0.38 | 13.26  | 2.7  | 2.34 | 0.39 | 13.46  | 2.9  | 2.81 | 0.42 | 15.28  | 3.27 | 3.27 | 0.47 | 18.76  |
|   |   | 20 | -    | -    | -    | -      | 3.45 | 1.88 | 0.49 | 20.49  | 3.43 | 2.35 | 0.49 | 20.28  | 3.43 | 2.81 | 0.49 | 20.25  | 3.53 | 3.29 | 0.5  | 21.28  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11     | 3    | 15                   | 1.64                      | 1.64 | 0.47    | 18.96 | 2.11 | 2.11 | 0.61    | 29.35 | 2.58 | 2.58 | 0.75    | 41.72 | 3.04 | 3.04 | 0.88    | 54.99 | 3.5  | 3.5  | 1.02    | 71.32 |  |
|        |      | 17                   | 1.91                      | 1.64 | 0.55    | 24.64 | 2.12 | 2.12 | 0.61    | 29.69 | 2.58 | 2.58 | 0.75    | 41.86 | 3.04 | 3.04 | 0.88    | 55    | 3.51 | 3.51 | 1.02    | 71.57 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.35 | 2.13 | 0.97    | 65.77 | 3.32 | 2.59 | 0.96    | 65.06 | 3.33 | 3.06 | 0.97    | 65.23 | 3.53 | 3.53 | 1.02    | 72.23 |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.11 | 2.13 | 1.18    | 93    | 4.08 | 2.59 | 1.18    | 92.14 | 4.06 | 3.06 | 1.17    | 91.2  | 4.04 | 3.52 | 1.17    | 90.64 |  |
|        | 4    | 15                   | 1.4                       | 1.4  | 0.3     | 8.9   | 1.87 | 1.87 | 0.4     | 14.39 | 2.34 | 2.34 | 0.5     | 21.07 | 2.8  | 2.8  | 0.6     | 28.9  | 3.27 | 3.27 | 0.71    | 37.88 |  |
|        |      | 17                   | 1.44                      | 1.42 | 0.31    | 9.3   | 1.87 | 1.87 | 0.4     | 14.44 | 2.34 | 2.34 | 0.5     | 21.14 | 2.81 | 2.81 | 0.61    | 29.01 | 3.27 | 3.27 | 0.71    | 38.01 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.7  | 1.88 | 0.58    | 26.9  | 2.7  | 2.35 | 0.58    | 27.03 | 2.88 | 2.82 | 0.62    | 30.33 | 3.29 | 3.28 | 0.71    | 38.22 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.46 | 1.89 | 0.75    | 41.53 | 3.44 | 2.35 | 0.74    | 41.06 | 3.43 | 2.82 | 0.74    | 40.82 | 3.49 | 3.29 | 0.75    | 41.98 |  |
|        | 5    | 15                   | 1.15                      | 1.15 | 0.2     | 4.31  | 1.63 | 1.63 | 0.28    | 7.82  | 2.1  | 2.1  | 0.36    | 12.01 | 2.57 | 2.57 | 0.44    | 16.91 | 3.03 | 3.03 | 0.52    | 22.46 |  |
|        |      | 17                   | 1.14                      | 1.14 | 0.2     | 4.34  | 1.63 | 1.63 | 0.28    | 7.85  | 2.1  | 2.1  | 0.36    | 12.06 | 2.57 | 2.57 | 0.44    | 16.97 | 3.04 | 3.04 | 0.53    | 22.54 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.05 | 1.64 | 0.35    | 11.51 | 2.21 | 2.11 | 0.38    | 13    | 2.58 | 2.57 | 0.45    | 17.04 | 3.04 | 3.04 | 0.53    | 22.63 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.81 | 1.65 | 0.49    | 19.69 | 2.8  | 2.11 | 0.48    | 19.59 | 2.86 | 2.59 | 0.49    | 20.27 | 3.1  | 3.05 | 0.54    | 23.34 |  |
|        | 6    | 15                   | 0.75                      | 0.75 | 0.11    | 1.25  | 1.37 | 1.37 | 0.2     | 4.28  | 1.85 | 1.85 | 0.27    | 7.05  | 2.32 | 2.32 | 0.33    | 10.33 | 2.79 | 2.79 | 0.4     | 14.22 |  |
|        |      | 17                   | 0.76                      | 0.76 | 0.11    | 1.25  | 1.38 | 1.38 | 0.2     | 4.29  | 1.86 | 1.86 | 0.27    | 7.07  | 2.33 | 2.33 | 0.33    | 10.37 | 2.8  | 2.8  | 0.4     | 14.27 |  |
|        |      | 19                   | -                         | -    | -       | -     | 1.46 | 1.4  | 0.21    | 4.73  | 1.86 | 1.86 | 0.27    | 7.11  | 2.33 | 2.33 | 0.33    | 10.41 | 2.81 | 2.81 | 0.4     | 14.33 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.09 | 1.4  | 0.3     | 8.66  | 2.14 | 1.87 | 0.31    | 9.01  | 2.41 | 2.34 | 0.35    | 10.99 | 2.81 | 2.81 | 0.4     | 14.35 |  |
| 13     | 3    | 15                   | 1.17                      | 1.17 | 0.34    | 10.48 | 1.64 | 1.64 | 0.47    | 18.62 | 2.1  | 2.1  | 0.6     | 28.18 | 2.56 | 2.56 | 0.74    | 40.08 | 3.02 | 3.02 | 0.86    | 53.03 |  |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.17 | 1.17 | 0.34 | 10.52 | 1.64 | 1.64 | 0.47 | 18.69 | 2.1  | 2.1  | 0.6  | 28.29 | 2.57 | 2.57 | 0.74 | 40.22 | 3.03 | 3.03 | 0.87 | 53.21 |
|    |   | 19 | -    | -    | -    | -     | 2.05 | 1.64 | 0.58 | 26.95 | 2.17 | 2.12 | 0.62 | 29.99 | 2.58 | 2.57 | 0.74 | 40.38 | 3.04 | 3.04 | 0.87 | 53.41 |
|    |   | 20 | -    | -    | -    | -     | 2.82 | 1.65 | 0.81 | 47.56 | 2.8  | 2.12 | 0.81 | 47.08 | 2.82 | 2.58 | 0.81 | 47.66 | 3.05 | 3.05 | 0.87 | 53.86 |
|    |   | 15 | 0.92 | 0.92 | 0.2  | 4.28  | 1.4  | 1.4  | 0.3  | 8.56  | 1.87 | 1.87 | 0.4  | 14.18 | 2.33 | 2.33 | 0.5  | 20.68 | 2.79 | 2.79 | 0.6  | 27.88 |
|    |   | 17 | 0.92 | 0.92 | 0.2  | 4.3   | 1.4  | 1.4  | 0.3  | 8.59  | 1.87 | 1.87 | 0.4  | 14.23 | 2.34 | 2.34 | 0.5  | 20.75 | 2.79 | 2.79 | 0.6  | 27.97 |
|    |   | 19 | -    | -    | -    | -     | 1.48 | 1.42 | 0.32 | 9.47  | 1.87 | 1.87 | 0.4  | 14.28 | 2.34 | 2.34 | 0.5  | 20.83 | 2.8  | 2.8  | 0.6  | 28.09 |
|    |   | 20 | -    | -    | -    | -     | 2.14 | 1.41 | 0.46 | 17.81 | 2.16 | 1.88 | 0.47 | 18.16 | 2.39 | 2.35 | 0.52 | 21.61 | 2.8  | 2.8  | 0.6  | 28.14 |
|    |   | 15 | 0.57 | 0.57 | 0.1  | 1.04  | 1.15 | 1.15 | 0.2  | 4.21  | 1.63 | 1.63 | 0.28 | 7.56  | 2.09 | 2.09 | 0.36 | 11.6  | 2.56 | 2.56 | 0.44 | 16.47 |
|    |   | 17 | 0.57 | 0.57 | 0.1  | 1.04  | 1.15 | 1.15 | 0.2  | 4.23  | 1.63 | 1.63 | 0.28 | 7.59  | 2.1  | 2.1  | 0.36 | 11.64 | 2.56 | 2.56 | 0.44 | 16.52 |
|    |   | 19 | -    | -    | -    | -     | 1.15 | 1.14 | 0.2  | 4.24  | 1.63 | 1.63 | 0.28 | 7.62  | 2.1  | 2.1  | 0.36 | 11.69 | 2.57 | 2.57 | 0.44 | 16.59 |
|    |   | 20 | -    | -    | -    | -     | 1.42 | 1.16 | 0.24 | 6.04  | 1.69 | 1.65 | 0.29 | 8.07  | 2.1  | 2.1  | 0.36 | 11.71 | 2.57 | 2.57 | 0.44 | 16.62 |
|    |   | 15 | 0.41 | 0.41 | 0.06 | 0.61  | 0.76 | 0.76 | 0.11 | 1.22  | 1.38 | 1.38 | 0.2  | 4.19  | 1.85 | 1.85 | 0.27 | 6.91  | 2.33 | 2.33 | 0.33 | 10.19 |
|    |   | 17 | 0.41 | 0.41 | 0.06 | 0.61  | 0.76 | 0.76 | 0.11 | 1.22  | 1.38 | 1.38 | 0.2  | 4.21  | 1.86 | 1.86 | 0.27 | 6.93  | 2.33 | 2.33 | 0.33 | 10.22 |
|    |   | 19 | -    | -    | -    | -     | 0.76 | 0.76 | 0.11 | 1.23  | 1.38 | 1.38 | 0.2  | 4.23  | 1.86 | 1.86 | 0.27 | 6.96  | 2.33 | 2.33 | 0.34 | 10.26 |
|    |   | 20 | -    | -    | -    | -     | 0.76 | 0.76 | 0.11 | 1.23  | 1.39 | 1.38 | 0.2  | 4.23  | 1.86 | 1.86 | 0.27 | 6.97  | 2.34 | 2.34 | 0.34 | 10.28 |
|    | 5 | 15 | 0.69 | 0.69 | 0.2  | 4.25  | 1.17 | 1.17 | 0.34 | 10.27 | 1.63 | 1.63 | 0.47 | 18.48 | 2.09 | 2.09 | 0.6  | 27.92 | 2.55 | 2.55 | 0.74 | 39.48 |
|    |   | 17 | 0.69 | 0.69 | 0.2  | 4.27  | 1.17 | 1.17 | 0.34 | 10.31 | 1.64 | 1.64 | 0.47 | 18.54 | 2.1  | 2.1  | 0.6  | 28.02 | 2.56 | 2.56 | 0.74 | 39.61 |
|    |   | 19 | -    | -    | -    | -     | 1.17 | 1.16 | 0.34 | 10.33 | 1.64 | 1.64 | 0.47 | 18.61 | 2.1  | 2.1  | 0.6  | 28.12 | 2.56 | 2.56 | 0.74 | 39.76 |
|    |   | 20 | -    | -    | -    | -     | 1.46 | 1.17 | 0.42 | 15.25 | 1.67 | 1.66 | 0.48 | 19.14 | 2.1  | 2.1  | 0.6  | 28.18 | 2.57 | 2.57 | 0.74 | 39.84 |
|    | 6 | 15 | 0.39 | 0.39 | 0.08 | 0.85  | 0.92 | 0.92 | 0.2  | 4.23  | 1.4  | 1.4  | 0.3  | 8.63  | 1.87 | 1.87 | 0.4  | 14.02 | 2.32 | 2.32 | 0.5  | 20.22 |
|    |   | 17 | 0.39 | 0.39 | 0.08 | 0.85  | 0.92 | 0.92 | 0.2  | 4.24  | 1.41 | 1.41 | 0.3  | 8.66  | 1.87 | 1.87 | 0.4  | 14.07 | 2.32 | 2.32 | 0.5  | 20.3  |
|    |   | 19 | -    | -    | -    | -     | 0.93 | 0.93 | 0.2  | 4.26  | 1.41 | 1.41 | 0.3  | 8.68  | 1.87 | 1.87 | 0.41 | 14.12 | 2.33 | 2.33 | 0.5  | 20.37 |
|    |   | 20 | -    | -    | -    | -     | 0.94 | 0.92 | 0.2  | 4.34  | 1.41 | 1.4  | 0.3  | 8.7   | 1.87 | 1.87 | 0.41 | 14.15 | 2.33 | 2.33 | 0.5  | 20.41 |
|    | 7 | 15 | 0.23 | 0.23 | 0.04 | 0.39  | 0.57 | 0.57 | 0.1  | 1.03  | 1.15 | 1.15 | 0.2  | 4.24  | 1.63 | 1.63 | 0.28 | 7.55  | 2.09 | 2.09 | 0.36 | 11.57 |
|    |   | 17 | 0.23 | 0.23 | 0.04 | 0.39  | 0.57 | 0.57 | 0.1  | 1.04  | 1.16 | 1.16 | 0.2  | 4.26  | 1.63 | 1.63 | 0.28 | 7.58  | 2.09 | 2.09 | 0.36 | 11.61 |
|    |   | 19 | -    | -    | -    | -     | 0.57 | 0.57 | 0.1  | 1.04  | 1.16 | 1.16 | 0.2  | 4.27  | 1.63 | 1.63 | 0.28 | 7.61  | 2.1  | 2.1  | 0.36 | 11.65 |
|    |   | 20 | -    | -    | -    | -     | 0.57 | 0.57 | 0.1  | 1.04  | 1.16 | 1.16 | 0.2  | 4.28  | 1.64 | 1.64 | 0.28 | 7.63  | 2.1  | 2.1  | 0.36 | 11.68 |
|    | 8 | 15 | -    | -    | -    | -     | 0.41 | 0.41 | 0.06 | 0.58  | 0.78 | 0.78 | 0.11 | 1.28  | 1.38 | 1.38 | 0.2  | 4.2   | 1.85 | 1.85 | 0.27 | 6.8   |
|    |   | 17 | -    | -    | -    | -     | 0.41 | 0.41 | 0.06 | 0.58  | 0.78 | 0.78 | 0.11 | 1.3   | 1.38 | 1.38 | 0.2  | 4.21  | 1.85 | 1.85 | 0.27 | 6.83  |
|    |   | 19 | -    | -    | -    | -     | 0.41 | 0.41 | 0.06 | 0.58  | 0.79 | 0.79 | 0.11 | 1.3   | 1.39 | 1.39 | 0.2  | 4.23  | 1.86 | 1.86 | 0.27 | 6.85  |
|    |   | 20 | -    | -    | -    | -     | 0.41 | 0.41 | 0.06 | 0.58  | 0.79 | 0.79 | 0.11 | 1.3   | 1.39 | 1.39 | 0.2  | 4.24  | 1.86 | 1.86 | 0.27 | 6.87  |

| (none) |      |                      |                           |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|--------|------|----------------------|---------------------------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|        |      |                      | 21                        |      |         |        | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |
|        |      |                      | TC                        | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |
| 5      | 3    | 15                   | 5.04                      | 3.97 | 1.45    | 70.92  | 5.03 | 4.58 | 1.45    | 71.52  | 5.19 | 5.19 | 1.5     | 75.48  | 5.79 | 5.79 | 1.68    | 91.71  | 6.4  | 6.4  | 1.85    | 108.65 |
|        |      | 17                   | 6.82                      | 3.99 | 1.97    | 121.29 | 6.79 | 4.6  | 1.95    | 119.75 | 6.76 | 5.2  | 1.95    | 119.05 | 6.73 | 5.81 | 1.94    | 118.11 | 6.71 | 6.41 | 1.93    | 117.5  |
|        |      | 19                   | -                         | -    | -       | -      | 8.69 | 4.62 | 2.5     | 185.02 | 8.67 | 5.23 | 2.5     | 184.09 | 8.64 | 5.84 | 2.49    | 183.13 | 8.61 | 6.44 | 2.48    | 182.18 |
|        |      | 20                   | -                         | -    | -       | -      | 9.7  | 4.63 | 2.8     | 224.44 | 9.68 | 5.24 | 2.79    | 223.36 | 9.65 | 5.85 | 2.78    | 222.2  | 9.62 | 6.46 | 2.77    | 221.08 |
|        | 4    | 15                   | 4.34                      | 3.64 | 0.93    | 32.95  | 4.38 | 4.25 | 0.94    | 33.49  | 4.86 | 4.86 | 1.04    | 40.1   | 5.46 | 5.46 | 1.17    | 49.11  | 6.07 | 6.07 | 1.31    | 59.28  |
|        |      | 17                   | 6.12                      | 3.67 | 1.32    | 60.38  | 6.09 | 4.27 | 1.31    | 59.6   | 6.06 | 4.88 | 1.31    | 59.1   | 6.04 | 5.48 | 1.3     | 58.65  | 6.15 | 6.09 | 1.33    | 60.85  |
|        |      | 19                   | -                         | -    | -       | -      | 7.98 | 4.29 | 1.72    | 95.17  | 7.96 | 4.9  | 1.71    | 94.68  | 7.94 | 5.51 | 1.71    | 94.13  | 7.91 | 6.11 | 1.7     | 93.61  |
|        |      | 20                   | -                         | -    | -       | -      | 8.99 | 4.3  | 1.94    | 117.53 | 8.97 | 4.91 | 1.93    | 116.94 | 8.94 | 5.52 | 1.93    | 116.32 | 8.91 | 6.13 | 1.92    | 115.7  |
|        | 5    | 15                   | 3.64                      | 3.32 | 0.63    | 16.63  | 3.93 | 3.93 | 0.68    | 19.03  | 4.53 | 4.53 | 0.78    | 24.08  | 5.15 | 5.15 | 0.89    | 30.17  | 5.75 | 5.75 | 0.99    | 36.54  |
|        |      | 17                   | 5.4                       | 3.34 | 0.93    | 32.7   | 5.37 | 3.95 | 0.92    | 32.4   | 5.34 | 4.55 | 0.92    | 32.1   | 5.37 | 5.16 | 0.93    | 32.49  | 5.76 | 5.76 | 0.99    | 36.65  |
|        |      | 19                   | -                         | -    | -       | -      | 7.27 | 3.97 | 1.25    | 54.54  | 7.24 | 4.58 | 1.25    | 54.23  | 7.22 | 5.18 | 1.24    | 53.87  | 7.18 | 5.78 | 1.23    | 53.34  |
|        |      | 20                   | -                         | -    | -       | -      | 8.27 | 3.98 | 1.42    | 68.39  | 8.25 | 4.59 | 1.42    | 68     | 8.22 | 5.2  | 1.42    | 67.64  | 8.19 | 5.8  | 1.41    | 67.26  |
|        | 6    | 15                   | 3.03                      | 2.99 | 0.43    | 8.89   | 3.6  | 3.6  | 0.52    | 11.93  | 4.21 | 4.21 | 0.6     | 15.58  | 4.82 | 4.82 | 0.69    | 19.46  | 5.42 | 5.42 | 0.77    | 23.83  |
|        |      | 17                   | 4.62                      | 3    | 0.66    | 18.08  | 4.59 | 3.61 | 0.66    | 17.88  | 4.6  | 4.22 | 0.66    | 17.95  | 4.86 | 4.83 | 0.69    | 19.74  | 5.43 | 5.43 | 0.78    | 23.91  |
|        |      | 19                   | -                         | -    | -       | -      | 6.52 | 3.65 | 0.94    | 32.91  | 6.5  | 4.25 | 0.93    | 32.7   | 6.47 | 4.86 | 0.93    | 32.43  | 6.44 | 5.46 | 0.92    | 32.16  |
|        |      | 20                   | -                         | -    | -       | -      | 7.53 | 3.66 | 1.08    | 42.16  | 7.5  | 4.26 | 1.08    | 41.91  | 7.48 | 4.87 | 1.07    | 41.68  | 7.45 | 5.47 | 1.07    | 41.4   |
| 7      | 3    | 15                   | 3.68                      | 3.34 | 1.06    | 40.53  | 3.95 | 3.94 | 1.13    | 45.85  | 4.56 | 4.56 | 1.32    | 59.34  | 5.17 | 5.17 | 1.49    | 73.45  | 5.77 | 5.77 | 1.66    | 89.03  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 5.45 | 3.36 | 1.57 | 80.99 | 5.42 | 3.97 | 1.57 | 80.34  | 5.39 | 4.58 | 1.56 | 79.51  | 5.39 | 5.18 | 1.56 | 79.48  | 5.78 | 5.78 | 1.67 | 89.32  |
|   |   | 19 | -    | -    | -    | -     | 7.32 | 3.99 | 2.12 | 135.97 | 7.29 | 4.6  | 2.11 | 135.18 | 7.27 | 5.2  | 2.1  | 134.36 | 7.24 | 5.81 | 2.1  | 134.04 |
|   |   | 20 | -    | -    | -    | -     | 8.33 | 4    | 2.43 | 172.66 | 8.3  | 4.61 | 2.42 | 171.71 | 8.28 | 5.22 | 2.41 | 170.79 | 8.25 | 5.82 | 2.41 | 169.88 |
|   |   | 15 | 3.07 | 3.03 | 0.66 | 18    | 3.63 | 3.63 | 0.78 | 23.99  | 4.25 | 4.25 | 0.92 | 31.68  | 4.84 | 4.84 | 1.04 | 39.42  | 5.45 | 5.45 | 1.18 | 48.85  |
|   | 4 | 17 | 4.69 | 3.04 | 1.01 | 37.3  | 4.66 | 3.64 | 1    | 36.9   | 4.65 | 4.25 | 1    | 36.74  | 4.88 | 4.87 | 1.06 | 40.32  | 5.46 | 5.46 | 1.18 | 49.03  |
|   |   | 19 | -    | -    | -    | -     | 6.56 | 3.66 | 1.41 | 66.87  | 6.54 | 4.27 | 1.41 | 66.48  | 6.51 | 4.87 | 1.4  | 66     | 6.48 | 5.47 | 1.4  | 65.41  |
|   |   | 20 | -    | -    | -    | -     | 7.57 | 3.67 | 1.63 | 85.86  | 7.55 | 4.28 | 1.63 | 85.37  | 7.53 | 4.89 | 1.63 | 85.25  | 7.51 | 5.5  | 1.63 | 85.3   |
|   |   | 15 | 2.7  | 2.7  | 0.47 | 9.91  | 3.31 | 3.31 | 0.57 | 13.89  | 3.92 | 3.92 | 0.67 | 18.54  | 4.53 | 4.53 | 0.78 | 23.72  | 5.14 | 5.14 | 0.89 | 29.7   |
|   | 5 | 17 | 3.91 | 2.71 | 0.67 | 18.48 | 3.9  | 3.32 | 0.67 | 18.34  | 4.04 | 3.93 | 0.69 | 19.48  | 4.53 | 4.53 | 0.78 | 23.79  | 5.15 | 5.15 | 0.89 | 29.79  |
|   |   | 19 | -    | -    | -    | -     | 5.8  | 3.34 | 1    | 36.34  | 5.77 | 3.95 | 0.99 | 36.05  | 4.94 | 4.08 | 0.85 | 44.7   | 5.72 | 5.15 | 0.98 | 35.54  |
|   |   | 20 | -    | -    | -    | -     | 6.81 | 3.36 | 1.18 | 48.41  | 6.79 | 3.96 | 1.17 | 48.12  | 6.76 | 4.57 | 1.17 | 47.8   | 6.73 | 5.17 | 1.16 | 47.39  |
|   |   | 15 | 2.36 | 2.36 | 0.34 | 5.74  | 2.99 | 2.99 | 0.43 | 8.54   | 3.6  | 3.6  | 0.52 | 11.73  | 4.21 | 4.21 | 0.6  | 15.3   | 4.82 | 4.82 | 0.69 | 19.33  |
|   | 6 | 17 | 3.1  | 2.38 | 0.44 | 9.09  | 3.18 | 3    | 0.46 | 9.48   | 3.61 | 3.6  | 0.52 | 11.77  | 4.22 | 4.22 | 0.61 | 15.35  | 4.83 | 4.83 | 0.69 | 19.39  |
|   |   | 19 | -    | -    | -    | -     | 5.01 | 3.02 | 0.72 | 20.68  | 4.98 | 3.63 | 0.72 | 20.44  | 4.96 | 4.23 | 0.71 | 20.33  | 5.06 | 4.84 | 0.73 | 20.95  |
|   |   | 20 | -    | -    | -    | -     | 6    | 3.03 | 0.86 | 27.99  | 5.98 | 3.63 | 0.86 | 27.81  | 5.96 | 4.24 | 0.86 | 27.84  | 5.93 | 4.84 | 0.85 | 27.6   |
|   |   | 15 | 2.73 | 2.72 | 0.78 | 23.67 | 3.33 | 3.33 | 0.95 | 33.49  | 3.95 | 3.95 | 1.14 | 45.42  | 4.54 | 4.54 | 1.3  | 57.34  | 5.15 | 5.15 | 1.49 | 72.38  |
| 9 | 3 | 17 | 3.99 | 2.74 | 1.15 | 46.28 | 3.96 | 3.35 | 1.14 | 45.76  | 4.03 | 3.96 | 1.16 | 47.18  | 4.55 | 4.55 | 1.3  | 57.52  | 5.16 | 5.16 | 1.49 | 72.61  |
|   |   | 19 | -    | -    | -    | -     | 5.86 | 3.37 | 1.7  | 90.86  | 5.84 | 3.97 | 1.69 | 90.24  | 5.81 | 4.58 | 1.68 | 89.41  | 5.78 | 5.18 | 1.67 | 88.66  |
|   |   | 20 | -    | -    | -    | -     | 6.84 | 3.37 | 1.97 | 118.15 | 6.82 | 3.98 | 1.96 | 117.32 | 6.8  | 4.58 | 1.96 | 117.18 | 6.78 | 5.19 | 1.96 | 117.24 |
|   |   | 15 | 2.41 | 2.41 | 0.52 | 11.73 | 3.02 | 3.02 | 0.65 | 17.23  | 3.63 | 3.63 | 0.78 | 23.71  | 4.23 | 4.23 | 0.91 | 30.54  | 4.83 | 4.83 | 1.04 | 38.48  |
|   | 4 | 17 | 3.19 | 2.42 | 0.69 | 19.03 | 3.23 | 3.03 | 0.7  | 19.41  | 3.64 | 3.63 | 0.78 | 23.78  | 4.23 | 4.23 | 0.91 | 30.64  | 4.84 | 4.84 | 1.04 | 38.61  |
|   |   | 19 | -    | -    | -    | -     | 5.07 | 3.05 | 1.1  | 42.29  | 5.04 | 3.65 | 1.09 | 41.86  | 5.02 | 4.25 | 1.08 | 41.47  | 5.07 | 4.86 | 1.09 | 42.17  |
|   |   | 20 | -    | -    | -    | -     | 6.07 | 3.06 | 1.31 | 57.82  | 6.05 | 3.66 | 1.31 | 57.42  | 6.02 | 4.26 | 1.3  | 56.93  | 5.99 | 4.87 | 1.29 | 56.38  |
|   |   | 15 | 2.08 | 2.08 | 0.36 | 6.21  | 2.7  | 2.7  | 0.46 | 9.64   | 3.31 | 3.31 | 0.57 | 13.63  | 3.91 | 3.91 | 0.67 | 18.16  | 4.52 | 4.52 | 0.78 | 23.21  |
|   | 5 | 17 | 2.37 | 2.09 | 0.41 | 7.72  | 2.72 | 2.71 | 0.47 | 9.74   | 3.31 | 3.31 | 0.57 | 13.67  | 3.92 | 3.92 | 0.67 | 18.22  | 4.52 | 4.52 | 0.78 | 23.28  |
|   |   | 19 | -    | -    | -    | -     | 4.23 | 2.72 | 0.73 | 20.76  | 4.21 | 3.32 | 0.72 | 20.56  | 4.25 | 3.93 | 0.73 | 20.88  | 4.56 | 4.54 | 0.78 | 23.6   |
|   |   | 20 | -    | -    | -    | -     | 5.25 | 2.73 | 0.9  | 30.18  | 5.22 | 3.34 | 0.9  | 29.89  | 5.19 | 3.94 | 0.89 | 29.57  | 5.18 | 4.54 | 0.89 | 29.47  |
|   |   | 15 | 1.67 | 1.67 | 0.24 | 2.91  | 2.37 | 2.37 | 0.34 | 5.69   | 2.99 | 2.99 | 0.43 | 8.42   | 3.6  | 3.6  | 0.52 | 11.55  | 4.2  | 4.2  | 0.6  | 14.93  |
|   | 6 | 17 | 1.67 | 1.67 | 0.24 | 2.93  | 2.38 | 2.38 | 0.34 | 5.71   | 3    | 3    | 0.43 | 8.45   | 3.61 | 3.61 | 0.52 | 11.59  | 4.21 | 4.21 | 0.6  | 14.98  |
|   |   | 19 | -    | -    | -    | -     | 3.38 | 2.4  | 0.49 | 10.35  | 3.41 | 3.01 | 0.49 | 10.49  | 3.69 | 3.62 | 0.53 | 12.04  | 4.22 | 4.22 | 0.6  | 15.03  |
|   |   | 20 | -    | -    | -    | -     | 4.39 | 2.41 | 0.63 | 16.06  | 4.36 | 3.01 | 0.62 | 15.87  | 4.34 | 3.61 | 0.62 | 15.8   | 4.47 | 4.23 | 0.64 | 16.6   |

Continued:

| (none) |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|--------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT    | ΔT   | Indoor temp W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|        |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|        |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]   | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11     | 3    | 15                | 2.12                      | 2.12 | 0.61   | 15.19 | 2.72 | 2.72 | 0.78   | 23.4  | 3.33 | 3.33 | 0.96   | 33.31 | 3.93 | 3.93 | 1.13   | 44.11 | 4.53 | 4.53 | 1.3    | 56.57 |
|        |      | 17                | 2.43                      | 2.12 | 0.7    | 19.32 | 2.72 | 2.71 | 0.78   | 23.51 | 3.33 | 3.33 | 0.96   | 33.42 | 3.93 | 3.93 | 1.13   | 44.24 | 4.54 | 4.54 | 1.31   | 56.75 |
|        |      | 19                | -                         | -    | -      | -     | 4.3  | 2.74 | 1.25   | 52.29 | 4.27 | 3.35 | 1.24   | 51.64 | 4.27 | 3.95 | 1.24   | 51.66 | 4.55 | 4.54 | 1.31   | 57.01 |
|        |      | 20                | -                         | -    | -      | -     | 5.28 | 2.74 | 1.52   | 74.11 | 5.25 | 3.35 | 1.51   | 73.42 | 5.23 | 3.95 | 1.51   | 73.14 | 5.21 | 4.56 | 1.51   | 73.16 |
|        | 4    | 15                | 1.8                       | 1.8  | 0.39   | 7.06  | 2.41 | 2.41 | 0.52   | 11.66 | 3.01 | 3.01 | 0.65   | 16.91 | 3.62 | 3.62 | 0.78   | 23.12 | 4.22 | 4.22 | 0.91   | 30.32 |
|        |      | 17                | 1.82                      | 1.81 | 0.39   | 7.2   | 2.42 | 2.42 | 0.52   | 11.7  | 3.02 | 3.02 | 0.65   | 16.96 | 3.62 | 3.62 | 0.78   | 23.19 | 4.23 | 4.23 | 0.91   | 30.42 |
|        |      | 19                | -                         | -    | -      | -     | 3.44 | 2.42 | 0.74   | 21.18 | 3.44 | 3.02 | 0.74   | 21.21 | 3.68 | 3.64 | 0.79   | 23.82 | 4.24 | 4.24 | 0.91   | 30.52 |
|        |      | 20                | -                         | -    | -      | -     | 4.45 | 2.43 | 0.96   | 33.26 | 4.42 | 3.04 | 0.95   | 32.84 | 4.4  | 3.64 | 0.95   | 32.57 | 4.47 | 4.25 | 0.97   | 33.64 |
|        | 5    | 15                | 1.43                      | 1.43 | 0.25   | 3.21  | 2.09 | 2.09 | 0.36   | 6.2   | 2.7  | 2.7  | 0.47   | 9.6   | 3.3  | 3.3  | 0.57   | 13.41 | 3.91 | 3.91 | 0.68   | 18.06 |
|        |      | 17                | 1.44                      | 1.44 | 0.25   | 3.23  | 2.09 | 2.09 | 0.36   | 6.23  | 2.71 | 2.71 | 0.47   | 9.63  | 3.31 | 3.31 | 0.57   | 13.46 | 3.92 | 3.92 | 0.68   | 18.12 |
|        |      | 19                | -                         | -    | -      | -     | 2.57 | 2.1  | 0.44   | 8.84  | 2.8  | 2.72 | 0.48   | 10.21 | 3.31 | 3.31 | 0.57   | 13.5  | 3.93 | 3.93 | 0.68   | 18.18 |
|        |      | 20                | -                         | -    | -      | -     | 3.57 | 2.11 | 0.62   | 15.47 | 3.55 | 2.72 | 0.61   | 15.32 | 3.62 | 3.33 | 0.63   | 15.8  | 3.96 | 3.94 | 0.69   | 18.47 |
|        | 6    | 15                | 0.89                      | 0.89 | 0.13   | 0.91  | 1.73 | 1.73 | 0.25   | 3.24  | 2.37 | 2.37 | 0.34   | 5.58  | 2.98 | 2.98 | 0.43   | 8.24  | 3.59 | 3.59 | 0.52   | 11.29 |
|        |      | 17                | 0.9                       | 0.9  | 0.13   | 0.91  | 1.73 | 1.73 | 0.25   | 3.25  | 2.37 | 2.37 | 0.34   | 5.6   | 2.99 | 2.99 | 0.43   | 8.27  | 3.6  | 3.6  | 0.52   | 11.33 |
|        |      | 19                | -                         | -    | -      | -     | 1.73 | 1.7  | 0.25   | 3.23  | 2.38 | 2.37 | 0.34   | 5.62  | 3    | 3    | 0.43   | 8.3   | 3.61 | 3.61 | 0.52   | 11.37 |
|        |      | 20                | -                         | -    | -      | -     | 2.61 | 1.77 | 0.37   | 6.56  | 2.67 | 2.39 | 0.38   | 6.82  | 3.05 | 3.01 | 0.44   | 8.53  | 3.61 | 3.61 | 0.52   | 11.39 |
| 13     | 3    | 15                | 1.5                       | 1.5  | 0.43   | 8.37  | 2.11 | 2.11 | 0.6    | 14.69 | 2.72 | 2.72 | 0.78   | 23    | 3.32 | 3.32 | 0.95   | 32.27 | 3.92 | 3.92 | 1.13   | 43.65 |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.51 | 1.51 | 0.43 | 8.39 | 2.12 | 2.12 | 0.61 | 15    | 2.72 | 2.72 | 0.78 | 23.08 | 3.32 | 3.32 | 0.95 | 32.38 | 3.92 | 3.92 | 1.13 | 43.24 |
|    |   | 19 | -    | -    | -    | -    | 2.63 | 2.12 | 0.75 | 21.71 | 2.78 | 2.74 | 0.8  | 23.93 | 3.33 | 3.33 | 0.95 | 32.49 | 3.93 | 3.93 | 1.13 | 43.72 |
|    |   | 20 | -    | -    | -    | -    | 3.6  | 2.12 | 1.03 | 37.05 | 3.58 | 2.73 | 1.02 | 36.57 | 3.6  | 3.33 | 1.03 | 36.96 | 3.94 | 3.94 | 1.13 | 43.86 |
|    |   | 15 | 1.16 | 1.16 | 0.25 | 3.29 | 1.79 | 1.79 | 0.38 | 6.81  | 2.4  | 2.4  | 0.51 | 11.21 | 3.01 | 3.01 | 0.65 | 16.64 | 3.61 | 3.61 | 0.78 | 22.72 |
|    |   | 17 | 1.17 | 1.17 | 0.25 | 3.31 | 1.79 | 1.79 | 0.38 | 6.83  | 2.41 | 2.41 | 0.52 | 11.24 | 3.02 | 3.02 | 0.65 | 16.69 | 3.62 | 3.62 | 0.78 | 22.79 |
|    |   | 19 | -    | -    | -    | -    | 1.86 | 1.81 | 0.4  | 7.28  | 2.41 | 2.4  | 0.52 | 11.27 | 3.02 | 3.02 | 0.65 | 16.75 | 3.62 | 3.62 | 0.78 | 22.87 |
|    |   | 20 | -    | -    | -    | -    | 2.72 | 1.81 | 0.59 | 13.96 | 2.74 | 2.42 | 0.59 | 14.18 | 3.06 | 3.04 | 0.66 | 17.09 | 3.63 | 3.63 | 0.78 | 22.91 |
|    |   | 15 | 0.68 | 0.68 | 0.12 | 0.78 | 1.45 | 1.45 | 0.25 | 3.25  | 2.08 | 2.08 | 0.36 | 6.02  | 2.69 | 2.69 | 0.46 | 9.29  | 3.3  | 3.3  | 0.57 | 13.24 |
|    |   | 17 | 0.68 | 0.68 | 0.12 | 0.78 | 1.45 | 1.45 | 0.25 | 3.27  | 2.09 | 2.09 | 0.36 | 6.04  | 2.7  | 2.7  | 0.46 | 9.32  | 3.31 | 3.31 | 0.57 | 13.28 |
|    |   | 19 | -    | -    | -    | -    | 1.46 | 1.46 | 0.25 | 3.28  | 2.09 | 2.09 | 0.36 | 6.06  | 2.71 | 2.71 | 0.46 | 9.35  | 3.32 | 3.32 | 0.57 | 13.33 |
|    |   | 20 | -    | -    | -    | -    | 1.74 | 1.47 | 0.3  | 4.46  | 2.13 | 2.11 | 0.36 | 6.23  | 2.71 | 2.71 | 0.46 | 9.37  | 3.32 | 3.32 | 0.57 | 13.36 |
|    |   | 15 | 0.5  | 0.5  | 0.07 | 0.47 | 0.89 | 0.89 | 0.13 | 0.86  | 1.75 | 1.75 | 0.25 | 3.26  | 2.38 | 2.38 | 0.34 | 5.49  | 2.99 | 2.99 | 0.43 | 8.12  |
|    |   | 17 | 0.5  | 0.5  | 0.07 | 0.47 | 0.89 | 0.89 | 0.13 | 0.87  | 1.75 | 1.75 | 0.25 | 3.27  | 2.38 | 2.38 | 0.34 | 5.51  | 3    | 3    | 0.43 | 8.16  |
|    |   | 19 | -    | -    | -    | -    | 0.9  | 0.9  | 0.13 | 0.87  | 1.75 | 1.75 | 0.25 | 3.29  | 2.39 | 2.39 | 0.34 | 5.53  | 3    | 3    | 0.43 | 8.22  |
|    |   | 20 | -    | -    | -    | -    | 0.9  | 0.9  | 0.13 | 0.87  | 1.76 | 1.76 | 0.25 | 3.29  | 2.39 | 2.39 | 0.34 | 5.54  | 3.01 | 3.01 | 0.43 | 8.23  |
|    | 6 | 15 | 0.82 | 0.82 | 0.17 | 1.34 | 1.5  | 1.5  | 0.43 | 8.21  | 2.11 | 2.11 | 0.61 | 14.87 | 2.7  | 2.7  | 0.78 | 22.49 | 3.3  | 3.3  | 0.95 | 31.82 |
|    |   | 17 | 0.88 | 0.88 | 0.25 | 3.33 | 1.5  | 1.5  | 0.43 | 8.24  | 2.12 | 2.12 | 0.61 | 14.92 | 2.71 | 2.71 | 0.78 | 22.56 | 3.31 | 3.31 | 0.95 | 31.93 |
|    |   | 19 | -    | -    | -    | -    | 1.51 | 1.5  | 0.43 | 8.26  | 2.12 | 2.12 | 0.61 | 14.98 | 2.71 | 2.71 | 0.78 | 22.64 | 3.32 | 3.32 | 0.95 | 32.04 |
|    |   | 20 | -    | -    | -    | -    | 1.84 | 1.51 | 0.53 | 11.57 | 2.14 | 2.13 | 0.62 | 15.19 | 2.72 | 2.72 | 0.78 | 22.68 | 3.32 | 3.32 | 0.96 | 32.1  |
|    | 4 | 15 | 0.47 | 0.47 | 0.1  | 0.65 | 1.17 | 1.17 | 0.25 | 3.31  | 1.79 | 1.79 | 0.39 | 6.79  | 2.4  | 2.4  | 0.52 | 11.27 | 2.99 | 2.99 | 0.65 | 16.27 |
|    |   | 17 | 0.47 | 0.47 | 0.1  | 0.65 | 1.17 | 1.17 | 0.25 | 3.33  | 1.8  | 1.8  | 0.39 | 6.81  | 2.41 | 2.41 | 0.52 | 11.31 | 3    | 3    | 0.65 | 16.33 |
|    |   | 19 | -    | -    | -    | -    | 1.17 | 1.17 | 0.25 | 3.35  | 1.8  | 1.8  | 0.39 | 6.84  | 2.41 | 2.41 | 0.52 | 11.35 | 3    | 3    | 0.65 | 16.39 |
|    |   | 20 | -    | -    | -    | -    | 1.17 | 1.14 | 0.25 | 3.32  | 1.8  | 1.8  | 0.39 | 6.85  | 2.42 | 2.42 | 0.52 | 11.37 | 3.01 | 3.01 | 0.65 | 16.42 |
|    | 5 | 15 | 0.28 | 0.28 | 0.05 | 0.31 | 0.68 | 0.68 | 0.12 | 0.76  | 1.47 | 1.47 | 0.25 | 3.34  | 2.09 | 2.09 | 0.36 | 6.04  | 2.69 | 2.69 | 0.47 | 9.29  |
|    |   | 17 | 0.28 | 0.28 | 0.05 | 0.31 | 0.68 | 0.68 | 0.12 | 0.76  | 1.5  | 1.5  | 0.25 | 3.34  | 2.1  | 2.1  | 0.36 | 6.05  | 2.7  | 2.7  | 0.47 | 9.32  |
|    |   | 19 | -    | -    | -    | -    | 0.68 | 0.68 | 0.12 | 0.76  | 1.48 | 1.48 | 0.26 | 3.36  | 2.1  | 2.1  | 0.36 | 6.08  | 2.71 | 2.71 | 0.47 | 9.35  |
|    |   | 20 | -    | -    | -    | -    | 0.68 | 0.68 | 0.12 | 0.76  | 1.48 | 1.48 | 0.26 | 3.37  | 2.1  | 2.1  | 0.36 | 6.09  | 2.71 | 2.71 | 0.47 | 9.37  |
|    | 6 | 15 | -    | -    | -    | -    | 0.5  | 0.5  | 0.07 | 0.45  | 0.9  | 0.9  | 0.13 | 0.86  | 1.76 | 1.76 | 0.25 | 3.31  | 2.38 | 2.38 | 0.34 | 5.49  |
|    |   | 17 | -    | -    | -    | -    | 0.5  | 0.5  | 0.07 | 0.45  | 0.9  | 0.9  | 0.13 | 0.86  | 1.76 | 1.76 | 0.25 | 3.32  | 2.38 | 2.38 | 0.34 | 5.51  |
|    |   | 19 | -    | -    | -    | -    | 0.5  | 0.5  | 0.07 | 0.45  | 0.9  | 0.9  | 0.13 | 0.86  | 1.77 | 1.77 | 0.25 | 3.33  | 2.39 | 2.39 | 0.34 | 5.53  |
|    |   | 20 | -    | -    | -    | -    | 0.5  | 0.5  | 0.07 | 0.45  | 0.91 | 0.91 | 0.13 | 0.86  | 1.77 | 1.77 | 0.26 | 3.34  | 2.39 | 2.39 | 0.35 | 5.54  |

| (none) |      |                      |                           |      |         |       |       |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|-------|-------|------|---------|-------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |       |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |  |
|        |      |                      | 21                        |      |         |       | 23    |      |         |       | 25    |      |         |        | 27    |      |         |        | 29    |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC    | SC   | WF      | WPD   | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW]  | [kW] | [m^3/h] | [kPa] | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 5.85                      | 4.6  | 1.69    | 46.07 | 5.84  | 5.32 | 1.68    | 45.76 | 6.02  | 6.01 | 1.73    | 48.21  | 6.73  | 6.73 | 1.92    | 57.71  | 7.43  | 7.43 | 2.13    | 68.66  |  |
|        |      | 17                   | 7.92                      | 4.64 | 2.28    | 77.52 | 7.9   | 5.35 | 2.28    | 77.32 | 7.87  | 6.05 | 2.27    | 76.81  | 7.83  | 6.75 | 2.25    | 75.86  | 7.8   | 7.46 | 2.25    | 75.72  |  |
|        |      | 19                   | -                         | -    | -       | -     | 10.1  | 5.37 | 2.91    | 118.1 | 10.07 | 6.09 | 2.9     | 117.53 | 10.05 | 6.79 | 2.9     | 117.51 | 10.03 | 7.5  | 2.9     | 117.55 |  |
|        |      | 20                   | -                         | -    | -       | -     | 11.29 | 5.39 | 3.26    | 144.2 | 11.26 | 6.11 | 3.26    | 144.24 | 11.23 | 6.82 | 3.26    | 144.26 | 11.21 | 7.53 | 3.26    | 144.07 |  |
|        | 4    | 15                   | 5.02                      | 4.23 | 1.08    | 21.29 | 5.04  | 4.94 | 1.09    | 21.43 | 5.63  | 5.63 | 1.21    | 25.67  | 6.34  | 6.34 | 1.36    | 31.49  | 7.05  | 7.05 | 1.51    | 37.81  |  |
|        |      | 17                   | 7.08                      | 4.25 | 1.52    | 38.12 | 7.05  | 4.96 | 1.51    | 37.86 | 7.02  | 5.66 | 1.51    | 37.54  | 6.99  | 6.36 | 1.5     | 37.28  | 7.08  | 7.07 | 1.52    | 38.13  |  |
|        |      | 19                   | -                         | -    | -       | -     | 9.28  | 4.99 | 2       | 61.52 | 9.25  | 5.7  | 2       | 61.18  | 9.23  | 6.41 | 1.99    | 60.85  | 9.19  | 7.1  | 1.98    | 60.42  |  |
|        |      | 20                   | -                         | -    | -       | -     | 10.46 | 5.01 | 2.26    | 75.69 | 10.43 | 5.72 | 2.25    | 75.3   | 10.4  | 6.43 | 2.25    | 74.93  | 10.37 | 7.13 | 2.24    | 74.53  |  |
|        | 5    | 15                   | 4.15                      | 3.83 | 0.71    | 10.37 | 4.54  | 4.53 | 0.78    | 12.08 | 5.26  | 5.26 | 0.9     | 15.61  | 5.96  | 5.96 | 1.03    | 19.36  | 6.66  | 6.66 | 1.14    | 23.21  |  |
|        |      | 17                   | 6.21                      | 3.86 | 1.06    | 20.61 | 6.2   | 4.57 | 1.07    | 20.67 | 6.17  | 5.28 | 1.06    | 20.5   | 6.18  | 5.98 | 1.06    | 20.58  | 6.67  | 6.67 | 1.14    | 23.29  |  |
|        |      | 19                   | -                         | -    | -       | -     | 8.42  | 4.61 | 1.45    | 34.99 | 8.39  | 5.31 | 1.45    | 34.8   | 8.36  | 6.02 | 1.44    | 34.58  | 8.3   | 6.71 | 1.42    | 33.92  |  |
|        |      | 20                   | -                         | -    | -       | -     | 9.58  | 4.61 | 1.64    | 43.39 | 9.55  | 5.32 | 1.64    | 43.15  | 9.52  | 6.03 | 1.63    | 42.91  | 9.48  | 6.73 | 1.63    | 42.66  |  |
|        | 6    | 15                   | 3.4                       | 3.36 | 0.49    | 5.45  | 4.15  | 4.15 | 0.59    | 7.64  | 4.87  | 4.87 | 0.7     | 9.99   | 5.58  | 5.58 | 0.8     | 12.58  | 6.28  | 6.28 | 0.9     | 15.4   |  |
|        |      | 17                   | 5.32                      | 3.48 | 0.76    | 11.62 | 5.29  | 4.18 | 0.76    | 11.51 | 5.28  | 4.88 | 0.76    | 11.48  | 5.59  | 5.57 | 0.8     | 12.62  | 6.3   | 6.3  | 0.9     | 15.46  |  |
|        |      | 19                   | -                         | -    | -       | -     | 7.52  | 4.21 | 1.07    | 20.8  | 7.49  | 4.92 | 1.07    | 20.65  | 7.45  | 5.62 | 1.06    | 20.48  | 7.42  | 6.32 | 1.06    | 20.32  |  |
|        |      | 20                   | -                         | -    | -       | -     | 8.7   | 4.23 | 1.24    | 26.68 | 8.67  | 4.94 | 1.24    | 26.52  | 8.64  | 5.64 | 1.23    | 26.36  | 8.6   | 6.34 | 1.23    | 26.17  |  |
| 7      | 3    | 15                   | 4.25                      | 3.88 | 1.22    | 25.84 | 4.59  | 4.58 | 1.32    | 29.82 | 5.3   | 5.3  | 1.53    | 38.19  | 6     | 6    | 1.72    | 46.73  | 6.7   | 6.7  | 1.94    | 57.58  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
|   |   | 17 | 6.3  | 3.9  | 1.81 | 51.21 | 6.28 | 4.61 | 1.81 | 51.08  | 6.24 | 5.31 | 1.79 | 50.07  | 6.25 | 6.01 | 1.81 | 50.84  | 6.72 | 6.72 | 1.94 | 57.78  |
|   |   | 19 | -    | -    | -    | -     | 8.5  | 4.64 | 2.47 | 87.29  | 8.48 | 5.35 | 2.46 | 86.95  | 8.45 | 6.05 | 2.45 | 86.41  | 8.41 | 6.75 | 2.44 | 85.75  |
|   |   | 20 | -    | -    | -    | -     | 9.66 | 4.65 | 2.79 | 108.16 | 9.63 | 5.36 | 2.78 | 107.55 | 9.6  | 6.06 | 2.77 | 106.93 | 9.57 | 6.77 | 2.76 | 106.32 |
|   |   | 15 | 3.51 | 3.5  | 0.76 | 11.41 | 4.21 | 4.21 | 0.91 | 15.55  | 4.91 | 4.91 | 1.05 | 20.05  | 5.61 | 5.61 | 1.21 | 25.24  | 6.33 | 6.33 | 1.37 | 31.28  |
|   | 4 | 17 | 5.42 | 3.52 | 1.16 | 23.77 | 5.39 | 4.22 | 1.16 | 23.52  | 5.37 | 4.92 | 1.15 | 23.41  | 5.63 | 5.61 | 1.21 | 25.33  | 6.34 | 6.34 | 1.37 | 31.39  |
|   |   | 19 | -    | -    | -    | -     | 7.62 | 4.26 | 1.65 | 43.19  | 7.59 | 4.96 | 1.64 | 42.9   | 7.56 | 5.66 | 1.63 | 42.56  | 7.52 | 6.36 | 1.63 | 42.21  |
|   |   | 20 | -    | -    | -    | -     | 8.77 | 4.27 | 1.89 | 54.68  | 8.74 | 4.97 | 1.88 | 54.35  | 8.71 | 5.68 | 1.88 | 54     | 8.68 | 6.38 | 1.87 | 53.61  |
|   |   | 15 | 3.1  | 3.1  | 0.53 | 6.29  | 3.82 | 3.82 | 0.66 | 8.99   | 4.53 | 4.53 | 0.78 | 11.87  | 5.24 | 5.24 | 0.9  | 15.19  | 5.94 | 5.94 | 1.02 | 18.84  |
|   | 5 | 17 | 4.49 | 3.13 | 0.77 | 11.71 | 4.47 | 3.83 | 0.77 | 11.62  | 4.59 | 4.55 | 0.79 | 12.14  | 5.25 | 5.25 | 0.9  | 15.25  | 5.95 | 5.95 | 1.02 | 18.91  |
|   |   | 19 | -    | -    | -    | -     | 6.7  | 3.87 | 1.15 | 23.16  | 6.67 | 4.57 | 1.15 | 22.96  | 6.21 | 4.75 | 1.06 | 37.3   | 6.61 | 5.97 | 1.14 | 22.63  |
|   |   | 20 | -    | -    | -    | -     | 7.89 | 3.89 | 1.36 | 30.89  | 7.86 | 4.6  | 1.36 | 30.7   | 7.82 | 5.3  | 1.35 | 30.47  | 7.79 | 5.99 | 1.34 | 30.22  |
|   |   | 15 | 2.6  | 2.6  | 0.37 | 3.13  | 3.43 | 3.43 | 0.49 | 5.43   | 4.15 | 4.15 | 0.59 | 7.49   | 4.86 | 4.86 | 0.7  | 9.79   | 5.56 | 5.56 | 0.8  | 12.27  |
|   | 6 | 17 | 3.51 | 2.73 | 0.5  | 5.65  | 3.54 | 3.44 | 0.51 | 5.75   | 4.16 | 4.16 | 0.6  | 7.52   | 4.87 | 4.87 | 0.7  | 9.83   | 5.57 | 5.57 | 0.8  | 12.32  |
|   |   | 19 | -    | -    | -    | -     | 5.75 | 3.49 | 0.82 | 12.98  | 5.71 | 4.18 | 0.82 | 12.85  | 5.69 | 4.88 | 0.82 | 12.77  | 5.76 | 5.6  | 0.83 | 13.03  |
|   |   | 20 | -    | -    | -    | -     | 6.95 | 3.51 | 1    | 18.05  | 6.92 | 4.21 | 0.99 | 17.9   | 6.88 | 4.91 | 0.99 | 17.74  | 6.85 | 5.61 | 0.98 | 17.6   |
|   |   | 15 | 3.15 | 3.15 | 0.9  | 15.16 | 3.86 | 3.86 | 1.1  | 21.43  | 4.57 | 4.57 | 1.32 | 29.03  | 5.27 | 5.27 | 1.51 | 36.62  | 5.97 | 5.97 | 1.72 | 46.13  |
| 9 | 3 | 17 | 4.61 | 3.18 | 1.33 | 29.45 | 4.59 | 3.88 | 1.32 | 29.16  | 4.64 | 4.6  | 1.34 | 29.75  | 5.28 | 5.28 | 1.51 | 36.75  | 5.99 | 5.99 | 1.73 | 46.3   |
|   |   | 19 | -    | -    | -    | -     | 6.77 | 3.9  | 1.94 | 56.61  | 6.75 | 4.61 | 1.95 | 57.05  | 6.72 | 5.31 | 1.94 | 56.6   | 6.69 | 6    | 1.93 | 56.18  |
|   |   | 20 | -    | -    | -    | -     | 7.95 | 3.92 | 2.29 | 75.79  | 7.94 | 4.61 | 2.29 | 75.48  | 7.89 | 5.33 | 2.28 | 75.07  | 7.85 | 6.02 | 2.27 | 74.37  |
|   |   | 15 | 2.78 | 2.78 | 0.6  | 7.49  | 3.49 | 3.49 | 0.75 | 11.03  | 4.2  | 4.2  | 0.9  | 15.1   | 4.9  | 4.9  | 1.06 | 19.78  | 5.6  | 5.6  | 1.21 | 24.87  |
|   | 4 | 17 | 3.65 | 2.79 | 0.78 | 11.89 | 3.68 | 3.5  | 0.79 | 12     | 4.2  | 4.2  | 0.9  | 15.15  | 4.91 | 4.91 | 1.06 | 19.85  | 5.61 | 5.61 | 1.21 | 24.95  |
|   |   | 19 | -    | -    | -    | -     | 5.85 | 3.53 | 1.26 | 26.82  | 5.82 | 4.23 | 1.25 | 26.55  | 5.79 | 4.93 | 1.25 | 26.34  | 5.82 | 5.63 | 1.26 | 26.61  |
|   |   | 20 | -    | -    | -    | -     | 7.01 | 3.54 | 1.5  | 36.3   | 6.98 | 4.24 | 1.5  | 36.02  | 6.94 | 4.94 | 1.49 | 35.7   | 6.9  | 5.63 | 1.48 | 35.36  |
|   |   | 15 | 2.36 | 2.36 | 0.41 | 3.83  | 3.1  | 3.1  | 0.53 | 6.15   | 3.82 | 3.82 | 0.65 | 8.71   | 4.52 | 4.52 | 0.78 | 11.62  | 5.22 | 5.22 | 0.9  | 14.85  |
|   | 5 | 17 | 2.64 | 2.38 | 0.46 | 4.72  | 3.11 | 3.09 | 0.53 | 6.16   | 3.82 | 3.82 | 0.66 | 8.74   | 4.53 | 4.53 | 0.78 | 11.66  | 5.23 | 5.23 | 0.9  | 14.9   |
|   |   | 19 | -    | -    | -    | -     | 4.87 | 3.14 | 0.84 | 13.18  | 4.84 | 3.84 | 0.83 | 13.06  | 4.86 | 4.54 | 0.83 | 13.14  | 5.24 | 5.23 | 0.9  | 14.95  |
|   |   | 20 | -    | -    | -    | -     | 6.05 | 3.16 | 1.04 | 19.07  | 6.01 | 3.86 | 1.03 | 18.88  | 5.98 | 4.56 | 1.03 | 18.7   | 5.96 | 5.25 | 1.02 | 18.61  |
|   |   | 15 | 1.96 | 1.66 | 0.24 | 1.24  | 2.67 | 2.67 | 0.38 | 3.41   | 3.43 | 3.43 | 0.49 | 5.35   | 4.14 | 4.14 | 0.59 | 7.36   | 4.85 | 4.85 | 0.7  | 9.6    |
|   | 6 | 17 | 1.96 | 1.66 | 0.24 | 1.25  | 2.68 | 2.68 | 0.38 | 3.43   | 3.44 | 3.44 | 0.49 | 5.37   | 4.15 | 4.15 | 0.6  | 7.38   | 4.86 | 4.86 | 0.7  | 9.64   |
|   |   | 19 | -    | -    | -    | -     | 3.84 | 2.75 | 0.55 | 6.48   | 3.85 | 3.45 | 0.55 | 6.5    | 4.17 | 4.17 | 0.6  | 7.44   | 4.87 | 4.87 | 0.7  | 9.68   |
|   |   | 20 | -    | -    | -    | -     | 5.04 | 2.78 | 0.72 | 10.27  | 5.01 | 3.48 | 0.72 | 10.15  | 4.99 | 4.18 | 0.72 | 10.09  | 5.08 | 4.89 | 0.73 | 10.38  |

Continued:

| (none) |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|--------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT    | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|        |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|        |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]   | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11     | 3    | 15                | 2.44                      | 2.44 | 0.7    | 9.71  | 3.15 | 3.15 | 0.9    | 14.96 | 3.85 | 3.85 | 1.1    | 21.14 | 4.55 | 4.55 | 1.31   | 28.38 | 5.25 | 5.25 | 1.51   | 36.33 |
|        |      | 17                | 2.79                      | 2.44 | 0.8    | 12.22 | 3.15 | 3.12 | 0.9    | 14.99 | 3.86 | 3.86 | 1.11   | 21.21 | 4.56 | 4.56 | 1.31   | 28.48 | 5.26 | 5.26 | 1.52   | 36.46 |
|        |      | 19                | -                         | -    | -      | -     | 4.95 | 3.18 | 1.43   | 32.84 | 4.92 | 3.87 | 1.42   | 32.49 | 4.92 | 4.57 | 1.42   | 32.45 | 5.27 | 5.25 | 1.52   | 36.57 |
|        |      | 20                | -                         | -    | -      | -     | 6.11 | 3.18 | 1.76   | 46.96 | 6.07 | 3.88 | 1.75   | 46.5  | 6.04 | 4.58 | 1.74   | 46.03 | 6.01 | 5.28 | 1.73   | 45.7  |
|        | 4    | 15                | 2.05                      | 2.05 | 0.44   | 4.48  | 2.78 | 2.78 | 0.6    | 7.41  | 3.48 | 3.48 | 0.75   | 10.91 | 4.18 | 4.18 | 0.9    | 14.77 | 4.88 | 4.88 | 1.05   | 19.24 |
|        |      | 17                | 2.04                      | 2    | 0.44   | 4.44  | 2.78 | 2.78 | 0.6    | 7.44  | 3.49 | 3.49 | 0.75   | 10.95 | 4.19 | 4.19 | 0.9    | 14.82 | 4.89 | 4.89 | 1.05   | 19.31 |
|        |      | 19                | -                         | -    | -      | -     | 3.95 | 2.79 | 0.85   | 13.39 | 3.94 | 3.49 | 0.85   | 13.38 | 4.21 | 4.2  | 0.91   | 14.96 | 4.9  | 4.9  | 1.05   | 19.38 |
|        |      | 20                | -                         | -    | -      | -     | 5.12 | 2.81 | 1.1    | 20.92 | 5.09 | 3.51 | 1.09   | 20.69 | 5.06 | 4.21 | 1.09   | 20.52 | 5.11 | 4.91 | 1.1    | 20.85 |
|        | 5    | 15                | 1.71                      | 1.41 | 0.24   | 1.29  | 2.38 | 2.38 | 0.41   | 3.92  | 3.1  | 3.1  | 0.54   | 6.11  | 3.81 | 3.81 | 0.66   | 8.65  | 4.51 | 4.51 | 0.78   | 11.52 |
|        |      | 17                | 1.72                      | 1.42 | 0.24   | 1.29  | 2.39 | 2.39 | 0.41   | 3.93  | 3.11 | 3.11 | 0.54   | 6.14  | 3.82 | 3.82 | 0.66   | 8.68  | 4.52 | 4.52 | 0.78   | 11.56 |
|        |      | 19                | -                         | -    | -      | -     | 2.91 | 2.41 | 0.5    | 5.48  | 3.14 | 3.13 | 0.54   | 6.23  | 3.83 | 3.83 | 0.66   | 8.71  | 4.53 | 4.53 | 0.78   | 11.6  |
|        |      | 20                | -                         | -    | -      | -     | 4.09 | 2.43 | 0.71   | 9.73  | 4.06 | 3.13 | 0.7    | 9.64  | 4.1  | 3.84 | 0.71   | 9.81  | 4.54 | 4.52 | 0.78   | 11.63 |
|        | 6    | 15                | 1.13                      | 1.13 | 0.16   | 0.75  | 1.98 | 1.7  | 0.25   | 1.29  | 2.7  | 2.7  | 0.39   | 3.52  | 3.42 | 3.42 | 0.49   | 5.24  | 4.13 | 4.13 | 0.59   | 7.19  |
|        |      | 17                | 1.13                      | 1.13 | 0.16   | 0.75  | 1.98 | 1.71 | 0.25   | 1.3   | 2.69 | 2.69 | 0.39   | 3.54  | 3.43 | 3.43 | 0.49   | 5.26  | 4.14 | 4.14 | 0.59   | 7.22  |
|        |      | 19                | -                         | -    | -      | -     | 2.01 | 1.71 | 0.25   | 1.31  | 2.72 | 2.72 | 0.39   | 3.55  | 3.44 | 3.44 | 0.49   | 5.28  | 4.15 | 4.15 | 0.6    | 7.24  |
|        |      | 20                | -                         | -    | -      | -     | 2.95 | 2.03 | 0.42   | 4.09  | 2.97 | 2.74 | 0.43   | 4.16  | 3.44 | 3.42 | 0.49   | 5.28  | 4.15 | 4.15 | 0.6    | 7.26  |
| 13     | 3    | 15                | 1.73                      | 1.73 | 0.5    | 5.32  | 2.44 | 2.44 | 0.7    | 9.53  | 3.13 | 3.13 | 0.89   | 14.45 | 3.84 | 3.84 | 1.1    | 20.72 | 4.52 | 4.52 | 1.29   | 27.2  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|----|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4  | 17 | 1.73 | 1.73 | 0.5  | 5.34 | 2.44 | 2.44 | 0.7  | 9.56  | 3.14 | 3.14 | 0.89 | 14.5  | 3.84 | 3.84 | 1.1  | 20.79 | 4.53 | 4.53 | 1.29 | 27.3  |
|    |    | 19 | -    | -    | -    | -    | 2.99 | 2.44 | 0.85 | 13.39 | 3.17 | 3.16 | 0.91 | 14.93 | 3.85 | 3.85 | 1.11 | 20.87 | 4.54 | 4.54 | 1.3  | 27.41 |
|    |    | 20 | -    | -    | -    | -    | 4.16 | 2.46 | 1.2  | 23.85 | 4.14 | 3.16 | 1.19 | 23.6  | 4.15 | 3.86 | 1.19 | 23.71 | 4.55 | 4.53 | 1.3  | 27.43 |
|    |    | 15 | 1.35 | 1.15 | 0.25 | 1.31 | 2.05 | 2.05 | 0.44 | 4.38  | 2.76 | 2.76 | 0.59 | 7.14  | 3.47 | 3.47 | 0.74 | 10.48 | 4.17 | 4.17 | 0.9  | 14.51 |
|    | 5  | 17 | 1.36 | 1.15 | 0.25 | 1.32 | 2.06 | 2.06 | 0.44 | 4.39  | 2.77 | 2.77 | 0.59 | 7.16  | 3.47 | 3.47 | 0.74 | 10.52 | 4.18 | 4.18 | 0.9  | 14.56 |
|    |    | 19 | -    | -    | -    | -    | 2.06 | 2.04 | 0.44 | 4.42  | 2.78 | 2.78 | 0.59 | 7.19  | 3.48 | 3.48 | 0.75 | 10.56 | 4.19 | 4.19 | 0.9  | 14.62 |
|    |    | 20 | -    | -    | -    | -    | 3.09 | 2.08 | 0.66 | 8.6   | 3.1  | 2.78 | 0.66 | 8.68  | 3.49 | 3.47 | 0.75 | 10.61 | 4.19 | 4.19 | 0.9  | 14.65 |
|    |    | 15 | 0.85 | 0.85 | 0.15 | 0.65 | 1.66 | 1.44 | 0.25 | 1.31  | 2.38 | 2.38 | 0.41 | 3.8   | 3.1  | 3.1  | 0.53 | 5.91  | 3.8  | 3.8  | 0.65 | 8.35  |
|    | 6  | 17 | 0.85 | 0.85 | 0.15 | 0.65 | 1.67 | 1.45 | 0.25 | 1.32  | 2.39 | 2.39 | 0.41 | 3.82  | 3.1  | 3.1  | 0.53 | 5.93  | 3.8  | 3.8  | 0.65 | 8.38  |
|    |    | 19 | -    | -    | -    | -    | 1.68 | 1.45 | 0.25 | 1.32  | 2.39 | 2.39 | 0.41 | 3.83  | 3.11 | 3.11 | 0.53 | 5.95  | 3.81 | 3.81 | 0.65 | 8.41  |
|    |    | 20 | -    | -    | -    | -    | 2.12 | 1.32 | 0.24 | 1.24  | 2.39 | 2.35 | 0.41 | 3.83  | 3.11 | 3.11 | 0.53 | 5.97  | 3.82 | 3.82 | 0.65 | 8.43  |
|    | 7  | 15 | 0.62 | 0.62 | 0.09 | 0.39 | 1.12 | 1.12 | 0.16 | 0.71  | 1.76 | 1.76 | 0.25 | 1.35  | 2.71 | 2.71 | 0.39 | 3.46  | 3.42 | 3.42 | 0.49 | 5.13  |
|    |    | 17 | 0.62 | 0.62 | 0.09 | 0.39 | 1.12 | 1.12 | 0.16 | 0.71  | 1.76 | 1.76 | 0.25 | 1.36  | 2.71 | 2.71 | 0.39 | 3.47  | 3.43 | 3.43 | 0.49 | 5.15  |
|    |    | 19 | -    | -    | -    | -    | 1.13 | 1.13 | 0.16 | 0.71  | 1.77 | 1.77 | 0.25 | 1.37  | 2.72 | 2.72 | 0.39 | 3.49  | 3.44 | 3.44 | 0.49 | 5.17  |
|    |    | 20 | -    | -    | -    | -    | 1.13 | 1.13 | 0.16 | 0.71  | 1.77 | 1.77 | 0.25 | 1.37  | 2.72 | 2.72 | 0.39 | 3.49  | 3.45 | 3.45 | 0.49 | 5.18  |
| 15 | 8  | 15 | 0.88 | 0.88 | 0.25 | 1.37 | 1.72 | 1.72 | 0.49 | 5.22  | 2.43 | 2.43 | 0.7  | 9.33  | 3.13 | 3.13 | 0.91 | 14.57 | 3.82 | 3.82 | 1.11 | 20.54 |
|    |    | 17 | 0.89 | 0.89 | 0.25 | 1.38 | 1.72 | 1.72 | 0.5  | 5.24  | 2.43 | 2.43 | 0.7  | 9.36  | 3.13 | 3.13 | 0.91 | 14.63 | 3.83 | 3.83 | 1.11 | 20.61 |
|    |    | 19 | -    | -    | -    | -    | 1.73 | 1.73 | 0.5  | 5.26  | 2.44 | 2.44 | 0.7  | 9.4   | 3.11 | 3.11 | 0.91 | 14.69 | 3.84 | 3.84 | 1.11 | 20.69 |
|    |    | 20 | -    | -    | -    | -    | 2.09 | 1.73 | 0.6  | 7.23  | 2.43 | 2.39 | 0.7  | 9.38  | 3.15 | 3.15 | 0.91 | 14.71 | 3.86 | 3.86 | 1.12 | 20.82 |
|    | 9  | 15 | 0.58 | 0.58 | 0.13 | 0.54 | 1.2  | 1.2  | 0.26 | 1.42  | 2.05 | 2.05 | 0.44 | 4.3   | 2.77 | 2.77 | 0.59 | 7.08  | 3.46 | 3.46 | 0.75 | 10.51 |
|    |    | 17 | 0.58 | 0.58 | 0.13 | 0.54 | 1.2  | 1.2  | 0.26 | 1.43  | 2.06 | 2.06 | 0.44 | 4.32  | 2.76 | 2.76 | 0.6  | 7.11  | 3.47 | 3.47 | 0.75 | 10.54 |
|    |    | 19 | -    | -    | -    | -    | 1.21 | 1.21 | 0.26 | 1.44  | 2.08 | 2.08 | 0.44 | 4.34  | 2.77 | 2.77 | 0.6  | 7.14  | 3.49 | 3.49 | 0.75 | 10.59 |
|    |    | 20 | -    | -    | -    | -    | 1.21 | 1.21 | 0.26 | 1.45  | 2.07 | 2.07 | 0.44 | 4.35  | 2.78 | 2.78 | 0.6  | 7.15  | 3.48 | 3.48 | 0.75 | 10.61 |
|    | 10 | 15 | 0.34 | 0.34 | 0.06 | 0.25 | 0.86 | 0.86 | 0.15 | 0.63  | 1.53 | 1.53 | 0.26 | 1.5   | 2.39 | 2.39 | 0.41 | 3.81  | 3.09 | 3.09 | 0.54 | 5.9   |
|    |    | 17 | 0.34 | 0.34 | 0.06 | 0.25 | 0.86 | 0.86 | 0.15 | 0.63  | 1.54 | 1.54 | 0.27 | 1.51  | 2.39 | 2.39 | 0.41 | 3.83  | 3.1  | 3.1  | 0.54 | 5.92  |
|    |    | 19 | -    | -    | -    | -    | 0.86 | 0.86 | 0.15 | 0.63  | 1.54 | 1.54 | 0.27 | 1.53  | 2.4  | 2.4  | 0.42 | 3.85  | 3.11 | 3.11 | 0.54 | 5.94  |
|    |    | 20 | -    | -    | -    | -    | 0.86 | 0.86 | 0.15 | 0.63  | 1.54 | 1.54 | 0.27 | 1.53  | 2.41 | 2.41 | 0.42 | 3.85  | 3.11 | 3.11 | 0.54 | 5.96  |
|    | 11 | 15 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.37  | 1.12 | 1.12 | 0.16 | 0.68  | 1.85 | 1.85 | 0.27 | 1.54  | 2.72 | 2.72 | 0.39 | 3.46  |
|    |    | 17 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.37  | 1.12 | 1.12 | 0.16 | 0.68  | 1.86 | 1.86 | 0.27 | 1.55  | 2.72 | 2.72 | 0.39 | 3.48  |
|    |    | 19 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.37  | 1.12 | 1.12 | 0.16 | 0.68  | 1.86 | 1.86 | 0.27 | 1.57  | 2.73 | 2.73 | 0.39 | 3.49  |
|    |    | 20 | -    | -    | -    | -    | 0.62 | 0.62 | 0.09 | 0.37  | 1.12 | 1.12 | 0.16 | 0.68  | 1.87 | 1.87 | 0.27 | 1.57  | 2.73 | 2.73 | 0.39 | 3.5   |

| MUC-05-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 5         | 3    | 15                   | 1.35                      | 1.06 | 0.39    | 21.37 | 1.34 | 1.23 | 0.38    | 21.18 | 1.39 | 1.39 | 0.4     | 22.61 | 1.55 | 1.55 | 0.44    | 27.01 | 1.72 | 1.72 | 0.49    | 32.11 |  |
|           |      | 17                   | 1.82                      | 1.07 | 0.52    | 35.87 | 1.82 | 1.24 | 0.52    | 35.67 | 1.81 | 1.4  | 0.52    | 35.12 | 1.8  | 1.56 | 0.51    | 34.85 | 1.79 | 1.72 | 0.51    | 34.62 |  |
|           |      | 19                   | -                         | -    | -       | -     | 2.33 | 1.24 | 0.67    | 54.58 | 2.32 | 1.41 | 0.66    | 54.29 | 2.32 | 1.57 | 0.66    | 54.01 | 2.31 | 1.73 | 0.66    | 53.72 |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.61 | 1.25 | 0.75    | 67.38 | 2.6  | 1.41 | 0.75    | 67.04 | 2.59 | 1.58 | 0.75    | 66.7  | 2.59 | 1.74 | 0.75    | 66.36 |  |
|           | 4    | 15                   | 1.14                      | 0.97 | 0.24    | 9.67  | 1.14 | 1.13 | 0.24    | 9.66  | 1.3  | 1.3  | 0.28    | 12.06 | 1.46 | 1.46 | 0.31    | 14.78 | 1.63 | 1.63 | 0.35    | 17.91 |  |
|           |      | 17                   | 1.63                      | 0.98 | 0.35    | 17.9  | 1.62 | 1.14 | 0.35    | 17.77 | 1.61 | 1.3  | 0.35    | 17.64 | 1.6  | 1.47 | 0.35    | 17.51 | 1.62 | 1.61 | 0.35    | 17.88 |  |
|           |      | 19                   | -                         | -    | -       | -     | 2.13 | 1.15 | 0.46    | 28.2  | 2.12 | 1.31 | 0.45    | 28.04 | 2.12 | 1.48 | 0.45    | 27.88 | 2.11 | 1.64 | 0.45    | 27.7  |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.41 | 1.15 | 0.52    | 34.83 | 2.4  | 1.32 | 0.51    | 34.65 | 2.39 | 1.48 | 0.51    | 34.47 | 2.38 | 1.65 | 0.51    | 34.29 |  |
|           | 5    | 15                   | 0.91                      | 0.87 | 0.16    | 4.57  | 1.03 | 1.03 | 0.18    | 5.63  | 1.2  | 1.2  | 0.21    | 7.24  | 1.37 | 1.37 | 0.23    | 9     | 1.53 | 1.53 | 0.26    | 10.91 |  |
|           |      | 17                   | 1.41                      | 0.88 | 0.24    | 9.51  | 1.41 | 1.05 | 0.24    | 9.43  | 1.4  | 1.21 | 0.24    | 9.34  | 1.39 | 1.37 | 0.24    | 9.3   | 1.53 | 1.53 | 0.26    | 10.95 |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.93 | 1.06 | 0.33    | 16.26 | 1.92 | 1.22 | 0.33    | 16.17 | 1.91 | 1.38 | 0.33    | 16.06 | 1.91 | 1.55 | 0.33    | 15.95 |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.2  | 1.06 | 0.38    | 20.39 | 2.19 | 1.23 | 0.38    | 20.28 | 2.19 | 1.39 | 0.38    | 20.16 | 2.18 | 1.55 | 0.38    | 20.04 |  |
|           | 6    | 15                   | 0.72                      | 0.72 | 0.1     | 1.81  | 0.92 | 0.92 | 0.13    | 3.1   | 1.1  | 1.1  | 0.16    | 4.6   | 1.27 | 1.27 | 0.18    | 5.86  | 1.44 | 1.44 | 0.21    | 7.22  |  |
|           |      | 17                   | 1.19                      | 0.79 | 0.17    | 5.21  | 1.18 | 0.95 | 0.17    | 5.15  | 1.17 | 1.11 | 0.17    | 5.1   | 1.28 | 1.28 | 0.18    | 5.88  | 1.44 | 1.44 | 0.21    | 7.25  |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.71 | 0.96 | 0.25    | 9.68  | 1.7  | 1.13 | 0.24    | 9.61  | 1.7  | 1.29 | 0.24    | 9.53  | 1.69 | 1.45 | 0.24    | 9.46  |  |
|           |      | 20                   | -                         | -    | -       | -     | 1.99 | 0.97 | 0.28    | 12.45 | 1.98 | 1.13 | 0.28    | 12.38 | 1.97 | 1.3  | 0.28    | 12.3  | 1.96 | 1.46 | 0.28    | 12.22 |  |
| 7         | 3    | 15                   | 0.97                      | 0.89 | 0.28    | 11.95 | 1.06 | 1.06 | 0.3     | 13.8  | 1.22 | 1.22 | 0.35    | 17.91 | 1.38 | 1.38 | 0.4     | 21.89 | 1.55 | 1.55 | 0.44    | 26.51 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 1.45 | 0.9  | 0.41 | 23.64 | 1.44 | 1.06 | 0.41 | 23.45 | 1.43 | 1.22 | 0.41 | 23.25 | 1.43 | 1.39 | 0.41 | 23.11 | 1.55 | 1.55 | 0.44 | 26.61 |
|   |   | 19 | -    | -    | -    | -     | 1.96 | 1.07 | 0.57 | 40.37 | 1.95 | 1.23 | 0.56 | 40.14 | 1.94 | 1.4  | 0.56 | 39.89 | 1.93 | 1.56 | 0.56 | 39.6  |
|   |   | 20 | -    | -    | -    | -     | 2.23 | 1.07 | 0.64 | 49.87 | 2.22 | 1.24 | 0.64 | 50.4  | 2.21 | 1.4  | 0.63 | 49.33 | 2.2  | 1.56 | 0.63 | 49.04 |
|   |   | 15 | 0.79 | 0.78 | 0.17 | 5.21  | 0.97 | 0.97 | 0.21 | 7.29  | 1.13 | 1.13 | 0.24 | 9.52  | 1.29 | 1.29 | 0.28 | 11.97 | 1.46 | 1.46 | 0.31 | 14.66 |
|   |   | 17 | 1.24 | 0.81 | 0.27 | 11.12 | 1.23 | 0.97 | 0.27 | 11.01 | 1.23 | 1.13 | 0.26 | 10.93 | 1.3  | 1.3  | 0.28 | 12.02 | 1.46 | 1.46 | 0.31 | 14.71 |
|   |   | 19 | -    | -    | -    | -     | 1.74 | 0.98 | 0.37 | 19.76 | 1.74 | 1.14 | 0.37 | 19.62 | 1.73 | 1.3  | 0.37 | 19.47 | 1.72 | 1.46 | 0.37 | 19.31 |
|   |   | 20 | -    | -    | -    | -     | 2.02 | 0.98 | 0.43 | 25.36 | 2.01 | 1.15 | 0.43 | 25.21 | 2    | 1.31 | 0.43 | 25.05 | 1.99 | 1.47 | 0.43 | 24.88 |
|   |   | 15 | 0.68 | 0.68 | 0.12 | 2.33  | 0.87 | 0.87 | 0.15 | 4.12  | 1.04 | 1.04 | 0.18 | 5.58  | 1.2  | 1.2  | 0.21 | 7.19  | 1.36 | 1.36 | 0.24 | 8.92  |
|   |   | 17 | 1.01 | 0.71 | 0.17 | 5.34  | 1    | 0.87 | 0.17 | 5.29  | 1.03 | 1.01 | 0.18 | 5.54  | 1.2  | 1.2  | 0.21 | 7.21  | 1.37 | 1.37 | 0.24 | 8.95  |
|   |   | 19 | -    | -    | -    | -     | 1.53 | 0.89 | 0.26 | 10.73 | 1.52 | 1.05 | 0.26 | 10.64 | 1.5  | 1.14 | 0.26 | 13.9  | 1.5  | 1.37 | 0.26 | 10.47 |
|   |   | 20 | -    | -    | -    | -     | 1.8  | 0.89 | 0.31 | 14.14 | 1.79 | 1.05 | 0.31 | 14.04 | 1.78 | 1.22 | 0.31 | 13.93 | 1.77 | 1.38 | 0.3  | 13.82 |
|   |   | 15 | 0.57 | 0.57 | 0.08 | 1.18  | 0.73 | 0.73 | 0.11 | 1.89  | 0.93 | 0.93 | 0.13 | 3.27  | 1.11 | 1.11 | 0.16 | 4.54  | 1.27 | 1.27 | 0.18 | 5.75  |
|   |   | 17 | 0.63 | 0.56 | 0.09 | 1.41  | 0.73 | 0.73 | 0.1  | 1.88  | 0.93 | 0.93 | 0.13 | 3.29  | 1.11 | 1.11 | 0.16 | 4.56  | 1.27 | 1.27 | 0.18 | 5.77  |
|   |   | 19 | -    | -    | -    | -     | 1.29 | 0.79 | 0.19 | 5.92  | 1.29 | 0.96 | 0.18 | 5.86  | 1.28 | 1.12 | 0.18 | 5.8   | 1.28 | 1.28 | 0.18 | 5.81  |
|   |   | 20 | -    | -    | -    | -     | 1.57 | 0.8  | 0.23 | 8.23  | 1.56 | 0.96 | 0.22 | 8.17  | 1.56 | 1.12 | 0.22 | 8.1   | 1.55 | 1.29 | 0.22 | 8.03  |
|   | 5 | 15 | 0.72 | 0.72 | 0.21 | 7.21  | 0.89 | 0.89 | 0.25 | 10.11 | 1.05 | 1.05 | 0.3  | 13.39 | 1.21 | 1.21 | 0.35 | 17.14 | 1.38 | 1.38 | 0.39 | 21.27 |
|   |   | 17 | 1.05 | 0.72 | 0.3  | 13.29 | 1.04 | 0.89 | 0.3  | 13.2  | 1.05 | 1.04 | 0.3  | 13.37 | 1.22 | 1.22 | 0.35 | 17.2  | 1.38 | 1.38 | 0.39 | 21.34 |
|   |   | 19 | -    | -    | -    | -     | 1.56 | 0.9  | 0.45 | 26.41 | 1.55 | 1.06 | 0.44 | 26    | 1.54 | 1.22 | 0.44 | 25.78 | 1.53 | 1.38 | 0.44 | 25.59 |
|   |   | 20 | -    | -    | -    | -     | 1.82 | 0.9  | 0.52 | 34.61 | 1.82 | 1.07 | 0.52 | 34.38 | 1.81 | 1.23 | 0.52 | 34.13 | 1.8  | 1.39 | 0.52 | 33.86 |
|   |   | 15 | 0.62 | 0.62 | 0.13 | 3.33  | 0.8  | 0.8  | 0.17 | 5.13  | 0.96 | 0.96 | 0.21 | 7.06  | 1.12 | 1.12 | 0.24 | 9.22  | 1.29 | 1.29 | 0.28 | 11.6  |
|   |   | 17 | 0.82 | 0.64 | 0.18 | 5.4   | 0.82 | 0.8  | 0.18 | 5.39  | 0.96 | 0.96 | 0.21 | 7.08  | 1.13 | 1.13 | 0.24 | 9.25  | 1.29 | 1.29 | 0.28 | 11.64 |
|   |   | 19 | -    | -    | -    | -     | 1.33 | 0.81 | 0.29 | 12.21 | 1.32 | 0.97 | 0.28 | 12.1  | 1.32 | 1.13 | 0.28 | 12    | 1.32 | 1.29 | 0.28 | 11.98 |
|   |   | 20 | -    | -    | -    | -     | 1.61 | 0.81 | 0.35 | 16.9  | 1.6  | 0.98 | 0.34 | 16.77 | 1.59 | 1.14 | 0.34 | 16.63 | 1.58 | 1.3  | 0.34 | 16.5  |
|   |   | 15 | 0.5  | 0.5  | 0.09 | 1.25  | 0.69 | 0.69 | 0.12 | 2.47  | 0.87 | 0.87 | 0.15 | 4.04  | 1.03 | 1.03 | 0.18 | 5.42  | 1.2  | 1.2  | 0.21 | 6.95  |
|   |   | 17 | 0.49 | 0.48 | 0.08 | 1.24  | 0.69 | 0.69 | 0.12 | 2.49  | 0.87 | 0.87 | 0.15 | 4.06  | 1.04 | 1.04 | 0.18 | 5.44  | 1.2  | 1.2  | 0.21 | 6.98  |
|   |   | 19 | -    | -    | -    | -     | 1.1  | 0.72 | 0.19 | 5.99  | 1.09 | 0.88 | 0.19 | 5.93  | 1.09 | 1.04 | 0.19 | 5.9   | 1.2  | 1.2  | 0.21 | 7     |
|   |   | 20 | -    | -    | -    | -     | 1.37 | 0.72 | 0.24 | 8.76  | 1.36 | 0.88 | 0.23 | 8.68  | 1.36 | 1.05 | 0.23 | 8.6   | 1.35 | 1.21 | 0.23 | 8.53  |
|   | 6 | 15 | 0.43 | 0.43 | 0.06 | 0.8   | 0.57 | 0.57 | 0.08 | 1.14  | 0.75 | 0.75 | 0.11 | 1.99  | 0.94 | 0.94 | 0.13 | 3.35  | 1.1  | 1.1  | 0.16 | 4.47  |
|   |   | 17 | 0.43 | 0.43 | 0.06 | 0.8   | 0.57 | 0.57 | 0.08 | 1.15  | 0.75 | 0.75 | 0.11 | 2     | 0.94 | 0.94 | 0.13 | 3.37  | 1.11 | 1.11 | 0.16 | 4.48  |
|   |   | 19 | -    | -    | -    | -     | 0.76 | 0.59 | 0.11 | 2.06  | 0.77 | 0.76 | 0.11 | 2.12  | 0.94 | 0.94 | 0.13 | 3.38  | 1.11 | 1.11 | 0.16 | 4.5   |
|   |   | 20 | -    | -    | -    | -     | 1.12 | 0.63 | 0.16 | 4.59  | 1.11 | 0.79 | 0.16 | 4.54  | 1.11 | 0.95 | 0.16 | 4.49  | 1.11 | 1.11 | 0.16 | 4.52  |

Continued:

| MUC-05-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11        | 3    | 15                   | 0.56                      | 0.56 | 0.16    | 4.52  | 0.72 | 0.72 | 0.21    | 7     | 0.89 | 0.89 | 0.25    | 9.9   | 1.05 | 1.05 | 0.3     | 13.19 | 1.21 | 1.21 | 0.35    | 16.87 |
|           |      | 17                   | 0.63                      | 0.56 | 0.18    | 5.51  | 0.72 | 0.72 | 0.21    | 7.03  | 0.89 | 0.89 | 0.25    | 9.93  | 1.05 | 1.05 | 0.3     | 13.24 | 1.21 | 1.21 | 0.35    | 16.94 |
|           |      | 19                   | -                         | -    | -       | -     | 1.13 | 0.73 | 0.32    | 15.04 | 1.12 | 0.89 | 0.32    | 14.89 | 1.12 | 1.05 | 0.32    | 14.82 | 1.21 | 1.21 | 0.35    | 17.01 |
|           |      | 20                   | -                         | -    | -       | -     | 1.4  | 0.73 | 0.4     | 21.74 | 1.39 | 0.89 | 0.4     | 21.53 | 1.39 | 1.06 | 0.4     | 21.33 | 1.38 | 1.22 | 0.4     | 21.17 |
|           | 4    | 15                   | 0.44                      | 0.44 | 0.09    | 1.49  | 0.63 | 0.63 | 0.14    | 3.42  | 0.79 | 0.79 | 0.17    | 5.08  | 0.96 | 0.96 | 0.21    | 6.96  | 1.12 | 1.12 | 0.24    | 9.08  |
|           |      | 17                   | 0.44                      | 0.44 | 0.09    | 1.5   | 0.63 | 0.63 | 0.14    | 3.43  | 0.8  | 0.8  | 0.17    | 5.1   | 0.96 | 0.96 | 0.21    | 6.99  | 1.12 | 1.12 | 0.24    | 9.12  |
|           |      | 19                   | -                         | -    | -       | -     | 0.89 | 0.64 | 0.19    | 6.17  | 0.89 | 0.8  | 0.19    | 6.12  | 0.96 | 0.95 | 0.21    | 7     | 1.13 | 1.13 | 0.24    | 9.15  |
|           |      | 20                   | -                         | -    | -       | -     | 1.17 | 0.64 | 0.25    | 9.71  | 1.16 | 0.81 | 0.25    | 9.62  | 1.15 | 0.97 | 0.25    | 9.53  | 1.15 | 1.13 | 0.25    | 9.54  |
|           | 5    | 15                   | 0.36                      | 0.36 | 0.06    | 0.78  | 0.5  | 0.5  | 0.09    | 1.28  | 0.69 | 0.69 | 0.12    | 2.64  | 0.87 | 0.87 | 0.15    | 4.02  | 1.03 | 1.03 | 0.18    | 5.38  |
|           |      | 17                   | 0.36                      | 0.36 | 0.06    | 0.78  | 0.5  | 0.5  | 0.09    | 1.29  | 0.7  | 0.7  | 0.12    | 2.66  | 0.87 | 0.87 | 0.15    | 4.04  | 1.03 | 1.03 | 0.18    | 5.4   |
|           |      | 19                   | -                         | -    | -       | -     | 0.53 | 0.51 | 0.09    | 1.43  | 0.7  | 0.69 | 0.12    | 2.66  | 0.87 | 0.87 | 0.15    | 4.05  | 1.04 | 1.04 | 0.18    | 5.42  |
|           |      | 20                   | -                         | -    | -       | -     | 0.91 | 0.55 | 0.16    | 4.35  | 0.9  | 0.71 | 0.16    | 4.31  | 0.9  | 0.87 | 0.16    | 4.31  | 1.04 | 1.04 | 0.18    | 5.43  |
|           | 6    | 15                   | 0.29                      | 0.29 | 0.04    | 0.52  | 0.43 | 0.43 | 0.06    | 0.76  | 0.57 | 0.57 | 0.08    | 1.15  | 0.76 | 0.76 | 0.11    | 2.1   | 0.94 | 0.94 | 0.13    | 3.35  |
|           |      | 17                   | 0.3                       | 0.3  | 0.04    | 0.52  | 0.43 | 0.43 | 0.06    | 0.76  | 0.57 | 0.57 | 0.08    | 1.15  | 0.76 | 0.76 | 0.11    | 2.12  | 0.94 | 0.94 | 0.14    | 3.36  |
|           |      | 19                   | -                         | -    | -       | -     | 0.43 | 0.43 | 0.06    | 0.76  | 0.57 | 0.57 | 0.08    | 1.16  | 0.76 | 0.76 | 0.11    | 2.13  | 0.94 | 0.94 | 0.14    | 3.38  |
|           |      | 20                   | -                         | -    | -       | -     | 0.51 | 0.41 | 0.07    | 0.96  | 0.56 | 0.55 | 0.08    | 1.13  | 0.76 | 0.76 | 0.11    | 2.14  | 0.94 | 0.94 | 0.14    | 3.39  |
| 13        | 3    | 15                   | 0.38                      | 0.38 | 0.11    | 2.12  | 0.56 | 0.56 | 0.16    | 4.44  | 0.72 | 0.72 | 0.21    | 6.86  | 0.88 | 0.88 | 0.25    | 9.68  | 1.04 | 1.04 | 0.3     | 12.71 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 |   | 17 | 0.38 | 0.38 | 0.11 | 2.14 | 0.56 | 0.56 | 0.16 | 4.46  | 0.72 | 0.72 | 0.21 | 6.88  | 0.88 | 0.88 | 0.25 | 9.72  | 1.04 | 1.04 | 0.3  | 12.76 |
|    |   | 19 | -    | -    | -    | -    | 0.68 | 0.56 | 0.19 | 6.23  | 0.71 | 0.69 | 0.2  | 6.77  | 0.88 | 0.88 | 0.25 | 9.76  | 1.05 | 1.05 | 0.3  | 12.81 |
|    |   | 20 | -    | -    | -    | -    | 0.95 | 0.56 | 0.27 | 10.95 | 0.94 | 0.73 | 0.27 | 10.84 | 0.94 | 0.89 | 0.27 | 10.81 | 1.05 | 1.05 | 0.3  | 12.84 |
|    | 4 | 15 | 0.29 | 0.29 | 0.06 | 0.75 | 0.44 | 0.44 | 0.1  | 1.55  | 0.63 | 0.63 | 0.14 | 3.35  | 0.79 | 0.79 | 0.17 | 4.87  | 0.95 | 0.95 | 0.2  | 6.69  |
|    |   | 17 | 0.29 | 0.29 | 0.06 | 0.75 | 0.44 | 0.44 | 0.1  | 1.56  | 0.63 | 0.63 | 0.14 | 3.36  | 0.79 | 0.79 | 0.17 | 4.9   | 0.96 | 0.96 | 0.2  | 6.72  |
|    |   | 19 | -    | -    | -    | -    | 0.44 | 0.44 | 0.1  | 1.54  | 0.63 | 0.63 | 0.14 | 3.37  | 0.79 | 0.79 | 0.17 | 4.92  | 0.96 | 0.96 | 0.21 | 6.75  |
|    | 5 | 15 | 0.22 | 0.22 | 0.04 | 0.45 | 0.36 | 0.36 | 0.06 | 0.73  | 0.5  | 0.5  | 0.09 | 1.27  | 0.7  | 0.7  | 0.12 | 2.65  | 0.86 | 0.86 | 0.15 | 3.88  |
|    |   | 17 | 0.22 | 0.22 | 0.04 | 0.45 | 0.36 | 0.36 | 0.06 | 0.73  | 0.51 | 0.51 | 0.09 | 1.28  | 0.7  | 0.7  | 0.12 | 2.67  | 0.87 | 0.87 | 0.15 | 3.9   |
|    |   | 19 | -    | -    | -    | -    | 0.36 | 0.36 | 0.06 | 0.73  | 0.51 | 0.51 | 0.09 | 1.28  | 0.7  | 0.7  | 0.12 | 2.68  | 0.87 | 0.87 | 0.15 | 3.91  |
|    | 6 | 15 | 0.16 | 0.16 | 0.02 | 0.26 | 0.29 | 0.29 | 0.04 | 0.49  | 0.43 | 0.43 | 0.06 | 0.72  | 0.57 | 0.57 | 0.08 | 1.14  | 0.76 | 0.76 | 0.11 | 2.16  |
|    |   | 17 | 0.16 | 0.16 | 0.02 | 0.26 | 0.29 | 0.29 | 0.04 | 0.49  | 0.43 | 0.43 | 0.06 | 0.72  | 0.57 | 0.57 | 0.08 | 1.14  | 0.76 | 0.76 | 0.11 | 2.17  |
|    |   | 19 | -    | -    | -    | -    | 0.29 | 0.29 | 0.04 | 0.49  | 0.43 | 0.43 | 0.06 | 0.72  | 0.57 | 0.57 | 0.08 | 1.15  | 0.77 | 0.77 | 0.11 | 2.19  |
| 15 | 3 | 15 | 0.21 | 0.21 | 0.06 | 0.72 | 0.38 | 0.38 | 0.11 | 2.21  | 0.55 | 0.55 | 0.16 | 4.34  | 0.72 | 0.72 | 0.21 | 6.7   | 0.88 | 0.88 | 0.25 | 9.46  |
|    |   | 17 | 0.21 | 0.21 | 0.06 | 0.72 | 0.38 | 0.38 | 0.11 | 2.23  | 0.56 | 0.56 | 0.16 | 4.36  | 0.72 | 0.72 | 0.21 | 6.73  | 0.88 | 0.88 | 0.25 | 9.5   |
|    |   | 19 | -    | -    | -    | -    | 0.39 | 0.39 | 0.11 | 2.24  | 0.56 | 0.56 | 0.16 | 4.38  | 0.72 | 0.72 | 0.21 | 6.75  | 0.88 | 0.88 | 0.25 | 9.54  |
|    | 4 | 15 | 0.15 | 0.15 | 0.03 | 0.37 | 0.28 | 0.28 | 0.06 | 0.71  | 0.45 | 0.45 | 0.1  | 1.62  | 0.63 | 0.63 | 0.13 | 3.28  | 0.79 | 0.79 | 0.17 | 4.84  |
|    |   | 17 | 0.15 | 0.15 | 0.03 | 0.37 | 0.28 | 0.28 | 0.06 | 0.71  | 0.45 | 0.45 | 0.1  | 1.63  | 0.63 | 0.63 | 0.14 | 3.3   | 0.79 | 0.79 | 0.17 | 4.86  |
|    |   | 19 | -    | -    | -    | -    | 0.28 | 0.28 | 0.06 | 0.72  | 0.45 | 0.45 | 0.1  | 1.64  | 0.63 | 0.63 | 0.14 | 3.3   | 0.79 | 0.79 | 0.17 | 4.88  |
|    | 5 | 15 | 0.08 | 0.08 | 0.01 | 0.16 | 0.22 | 0.22 | 0.04 | 0.43  | 0.35 | 0.35 | 0.06 | 0.71  | 0.51 | 0.51 | 0.09 | 1.35  | 0.7  | 0.7  | 0.12 | 2.71  |
|    |   | 17 | 0.08 | 0.08 | 0.01 | 0.16 | 0.22 | 0.22 | 0.04 | 0.43  | 0.36 | 0.36 | 0.06 | 0.71  | 0.52 | 0.52 | 0.09 | 1.36  | 0.7  | 0.7  | 0.12 | 2.72  |
|    |   | 19 | -    | -    | -    | -    | 0.22 | 0.22 | 0.04 | 0.43  | 0.36 | 0.36 | 0.06 | 0.71  | 0.52 | 0.52 | 0.09 | 1.37  | 0.7  | 0.7  | 0.12 | 2.74  |
|    | 6 | 15 | -    | -    | -    | -    | 0.16 | 0.16 | 0.02 | 0.25  | 0.29 | 0.29 | 0.04 | 0.46  | 0.42 | 0.42 | 0.06 | 0.69  | 0.58 | 0.58 | 0.08 | 1.18  |
|    |   | 17 | -    | -    | -    | -    | 0.16 | 0.16 | 0.02 | 0.25  | 0.29 | 0.29 | 0.04 | 0.47  | 0.42 | 0.42 | 0.06 | 0.7   | 0.58 | 0.58 | 0.08 | 1.19  |
|    |   | 19 | -    | -    | -    | -    | 0.16 | 0.16 | 0.02 | 0.25  | 0.29 | 0.29 | 0.04 | 0.47  | 0.43 | 0.43 | 0.06 | 0.7   | 0.58 | 0.58 | 0.08 | 1.2   |
|    | 6 | 15 | -    | -    | -    | -    | 0.16 | 0.16 | 0.02 | 0.25  | 0.29 | 0.29 | 0.04 | 0.47  | 0.43 | 0.43 | 0.06 | 0.7   | 0.58 | 0.58 | 0.08 | 1.2   |

| MUC-08-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 5         | 3    | 15                   | 2.09                      | 1.66 | 0.6     | 22.88 | 2.08 | 1.91 | 0.6     | 22.7  | 2.16 | 2.16 | 0.62    | 24.22 | 2.42 | 2.42 | 0.69    | 29.16 | 2.67 | 2.67 | 0.76    | 34.44 |  |
|           |      | 17                   | 2.84                      | 1.66 | 0.81    | 38.15 | 2.83 | 1.92 | 0.81    | 37.92 | 2.81 | 2.17 | 0.8     | 37.65 | 2.8  | 2.43 | 0.8     | 37.35 | 2.79 | 2.68 | 0.8     | 37.11 |  |
|           |      | 19                   | -                         | -    | -       | -     | 3.63 | 1.93 | 1.04    | 58.58 | 3.62 | 2.19 | 1.04    | 58.26 | 3.61 | 2.44 | 1.03    | 57.95 | 3.59 | 2.7  | 1.03    | 57.64 |  |
|           |      | 20                   | -                         | -    | -       | -     | 4.06 | 1.94 | 1.17    | 72.23 | 4.05 | 2.2  | 1.17    | 71.86 | 4.03 | 2.45 | 1.15    | 70.42 | 4.02 | 2.71 | 1.15    | 70.06 |  |
|           | 4    | 15                   | 1.77                      | 1.51 | 0.38    | 10.36 | 1.77 | 1.76 | 0.38    | 10.34 | 2.02 | 2.02 | 0.43    | 12.92 | 2.28 | 2.28 | 0.49    | 16.02 | 2.53 | 2.53 | 0.54    | 19.19 |  |
|           |      | 17                   | 2.53                      | 1.52 | 0.54    | 19.16 | 2.52 | 1.78 | 0.54    | 19.03 | 2.51 | 2.03 | 0.54    | 18.88 | 2.49 | 2.28 | 0.54    | 18.73 | 2.53 | 2.51 | 0.54    | 19.16 |  |
|           |      | 19                   | -                         | -    | -       | -     | 3.32 | 1.79 | 0.71    | 30.24 | 3.3  | 2.04 | 0.71    | 30.07 | 3.29 | 2.3  | 0.71    | 29.9  | 3.28 | 2.55 | 0.7     | 29.71 |  |
|           |      | 20                   | -                         | -    | -       | -     | 3.74 | 1.8  | 0.8     | 37.34 | 3.73 | 2.05 | 0.8     | 37.15 | 3.72 | 2.31 | 0.8     | 36.96 | 3.71 | 2.56 | 0.8     | 36.77 |  |
|           | 5    | 15                   | 1.43                      | 1.35 | 0.25    | 4.94  | 1.61 | 1.61 | 0.28    | 6.03  | 1.87 | 1.87 | 0.32    | 7.76  | 2.13 | 2.13 | 0.36    | 9.64  | 2.38 | 2.38 | 0.41    | 11.68 |  |
|           |      | 17                   | 2.2                       | 1.37 | 0.38    | 10.18 | 2.19 | 1.63 | 0.37    | 10.1  | 2.18 | 1.88 | 0.37    | 10.01 | 2.17 | 2.14 | 0.37    | 9.96  | 2.39 | 2.39 | 0.41    | 11.73 |  |
|           |      | 19                   | -                         | -    | -       | -     | 3    | 1.65 | 0.52    | 17.41 | 2.99 | 1.9  | 0.51    | 17.31 | 2.98 | 2.15 | 0.51    | 17.2  | 2.97 | 2.41 | 0.51    | 17.07 |  |
|           |      | 20                   | -                         | -    | -       | -     | 3.42 | 1.65 | 0.59    | 21.6  | 3.41 | 1.91 | 0.58    | 21.48 | 3.4  | 2.16 | 0.58    | 21.36 | 3.38 | 2.41 | 0.58    | 21.23 |  |
|           | 6    | 15                   | 1.1                       | 1.1  | 0.16    | 1.88  | 1.44 | 1.44 | 0.21    | 3.44  | 1.72 | 1.72 | 0.25    | 4.95  | 1.98 | 1.98 | 0.28    | 6.3   | 2.24 | 2.24 | 0.32    | 7.73  |  |
|           |      | 17                   | 1.85                      | 1.23 | 0.26    | 5.59  | 1.84 | 1.48 | 0.26    | 5.52  | 1.83 | 1.73 | 0.26    | 5.47  | 1.99 | 1.99 | 0.28    | 6.32  | 2.25 | 2.25 | 0.32    | 7.76  |  |
|           |      | 19                   | -                         | -    | -       | -     | 2.66 | 1.5  | 0.38    | 10.36 | 2.65 | 1.75 | 0.38    | 10.29 | 2.64 | 2.01 | 0.38    | 10.2  | 2.63 | 2.26 | 0.38    | 10.12 |  |
|           |      | 20                   | -                         | -    | -       | -     | 3.09 | 1.51 | 0.44    | 13.34 | 3.08 | 1.76 | 0.44    | 13.26 | 3.07 | 2.02 | 0.44    | 13.18 | 3.06 | 2.27 | 0.44    | 13.08 |  |
| 7         | 3    | 15                   | 1.51                      | 1.39 | 0.43    | 12.8  | 1.65 | 1.65 | 0.47    | 15.01 | 1.9  | 1.9  | 0.55    | 19.19 | 2.15 | 2.15 | 0.62    | 23.47 | 2.41 | 2.41 | 0.7     | 28.85 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 2.25 | 1.4  | 0.65 | 25.34 | 2.24 | 1.65 | 0.64 | 25.13 | 2.23 | 1.91 | 0.64 | 24.91 | 2.22 | 2.16 | 0.64 | 24.78 | 2.41 | 2.41 | 0.7  | 28.96 |
|   |   | 19 | -    | -    | -    | -     | 3.04 | 1.66 | 0.87 | 42.61 | 3.03 | 1.92 | 0.87 | 42.34 | 3.02 | 2.17 | 0.87 | 42.07 | 3    | 2.42 | 0.86 | 41.69 |
|   |   | 20 | -    | -    | -    | -     | 3.47 | 1.67 | 1    | 53.91 | 3.45 | 1.93 | 0.99 | 53.46 | 3.44 | 2.18 | 0.99 | 53.11 | 3.43 | 2.43 | 0.99 | 52.75 |
|   |   | 15 | 1.24 | 1.21 | 0.27 | 5.58  | 1.5  | 1.5  | 0.32 | 7.81  | 1.76 | 1.76 | 0.38 | 10.19 | 2.01 | 2.01 | 0.43 | 12.83 | 2.27 | 2.27 | 0.49 | 15.71 |
|   |   | 17 | 1.93 | 1.26 | 0.42 | 11.91 | 1.92 | 1.51 | 0.41 | 11.8  | 1.91 | 1.76 | 0.41 | 11.71 | 2.02 | 2.02 | 0.44 | 12.87 | 2.27 | 2.27 | 0.49 | 15.77 |
|   |   | 19 | -    | -    | -    | -     | 2.71 | 1.52 | 0.58 | 21.18 | 2.7  | 1.78 | 0.58 | 21.03 | 2.69 | 2.03 | 0.58 | 20.86 | 2.68 | 2.28 | 0.58 | 20.69 |
|   |   | 20 | -    | -    | -    | -     | 3.14 | 1.53 | 0.67 | 27.17 | 3.13 | 1.78 | 0.67 | 27.02 | 3.12 | 2.04 | 0.67 | 26.85 | 3.1  | 2.29 | 0.67 | 26.67 |
|   |   | 15 | 1.05 | 1.05 | 0.18 | 2.56  | 1.35 | 1.35 | 0.23 | 4.43  | 1.61 | 1.61 | 0.28 | 5.97  | 1.87 | 1.87 | 0.32 | 7.7   | 2.13 | 2.13 | 0.37 | 9.55  |
|   |   | 17 | 1.57 | 1.11 | 0.27 | 5.72  | 1.56 | 1.36 | 0.27 | 5.67  | 1.61 | 1.58 | 0.28 | 5.93  | 1.88 | 1.88 | 0.32 | 7.73  | 2.13 | 2.13 | 0.37 | 9.59  |
|   |   | 19 | -    | -    | -    | -     | 2.37 | 1.38 | 0.41 | 11.42 | 2.36 | 1.63 | 0.41 | 11.38 | 2.35 | 1.79 | 0.4  | 13.3  | 2.34 | 2.14 | 0.4  | 11.22 |
|   |   | 20 | -    | -    | -    | -     | 2.8  | 1.39 | 0.48 | 15.14 | 2.79 | 1.64 | 0.48 | 15.04 | 2.77 | 1.89 | 0.48 | 14.93 | 2.76 | 2.14 | 0.47 | 14.81 |
|   |   | 15 | 0.85 | 0.85 | 0.12 | 1.18  | 1.13 | 1.13 | 0.16 | 2     | 1.45 | 1.45 | 0.21 | 3.6   | 1.72 | 1.72 | 0.25 | 4.87  | 1.98 | 1.98 | 0.28 | 6.16  |
|   |   | 17 | 0.9  | 0.85 | 0.13 | 1.31  | 1.13 | 1.13 | 0.16 | 2     | 1.46 | 1.46 | 0.21 | 3.61  | 1.73 | 1.73 | 0.25 | 4.89  | 1.98 | 1.98 | 0.28 | 6.18  |
|   |   | 19 | -    | -    | -    | -     | 2.01 | 1.23 | 0.29 | 6.34  | 2    | 1.49 | 0.29 | 6.28  | 1.99 | 1.74 | 0.29 | 6.21  | 1.99 | 1.99 | 0.29 | 6.24  |
|   |   | 20 | -    | -    | -    | -     | 2.45 | 1.24 | 0.35 | 8.82  | 2.44 | 1.5  | 0.35 | 8.75  | 2.42 | 1.75 | 0.35 | 8.67  | 2.41 | 2    | 0.35 | 8.6   |
|   | 6 | 15 | 1.13 | 1.13 | 0.32 | 7.72  | 1.38 | 1.38 | 0.4  | 10.84 | 1.64 | 1.64 | 0.47 | 14.36 | 1.89 | 1.89 | 0.54 | 18.38 | 2.14 | 2.14 | 0.61 | 22.8  |
|   |   | 17 | 1.63 | 1.13 | 0.47 | 14.28 | 1.62 | 1.39 | 0.46 | 14.15 | 1.64 | 1.62 | 0.47 | 14.35 | 1.89 | 1.89 | 0.54 | 18.44 | 2.15 | 2.15 | 0.61 | 22.89 |
|   |   | 19 | -    | -    | -    | -     | 2.43 | 1.4  | 0.7  | 28.61 | 2.42 | 1.65 | 0.7  | 28.37 | 2.4  | 1.91 | 0.69 | 28.12 | 2.39 | 2.16 | 0.69 | 27.92 |
|   |   | 20 | -    | -    | -    | -     | 2.84 | 1.4  | 0.81 | 37.13 | 2.83 | 1.66 | 0.81 | 36.89 | 2.82 | 1.91 | 0.81 | 36.62 | 2.81 | 2.16 | 0.8  | 36.33 |
|   |   | 15 | 0.98 | 0.98 | 0.21 | 3.65  | 1.24 | 1.24 | 0.27 | 5.5   | 1.5  | 1.5  | 0.32 | 7.56  | 1.75 | 1.75 | 0.38 | 9.88  | 2    | 2    | 0.43 | 12.36 |
|   |   | 17 | 1.28 | 0.99 | 0.27 | 5.79  | 1.28 | 1.24 | 0.27 | 5.78  | 1.5  | 1.5  | 0.32 | 7.59  | 1.76 | 1.76 | 0.38 | 9.91  | 2.01 | 2.01 | 0.43 | 12.41 |
|   |   | 19 | -    | -    | -    | -     | 2.07 | 1.26 | 0.44 | 13.1  | 2.06 | 1.51 | 0.44 | 12.97 | 2.05 | 1.76 | 0.44 | 12.86 | 2.05 | 2.01 | 0.44 | 12.86 |
|   |   | 20 | -    | -    | -    | -     | 2.5  | 1.27 | 0.54 | 18.25 | 2.49 | 1.52 | 0.54 | 18.1  | 2.48 | 1.77 | 0.53 | 17.95 | 2.47 | 2.02 | 0.53 | 17.79 |
|   |   | 15 | 0.74 | 0.74 | 0.13 | 1.29  | 1.07 | 1.07 | 0.18 | 2.75  | 1.35 | 1.35 | 0.23 | 4.34  | 1.61 | 1.61 | 0.28 | 5.81  | 1.86 | 1.86 | 0.32 | 7.45  |
|   |   | 17 | 0.74 | 0.72 | 0.13 | 1.25  | 1.07 | 1.07 | 0.18 | 2.77  | 1.36 | 1.36 | 0.23 | 4.35  | 1.61 | 1.61 | 0.28 | 5.83  | 1.87 | 1.87 | 0.32 | 7.47  |
|   |   | 19 | -    | -    | -    | -     | 1.71 | 1.11 | 0.29 | 6.42  | 1.7  | 1.37 | 0.29 | 6.36  | 1.69 | 1.62 | 0.29 | 6.33  | 1.87 | 1.87 | 0.32 | 7.5   |
|   |   | 20 | -    | -    | -    | -     | 2.14 | 1.12 | 0.37 | 9.39  | 2.12 | 1.38 | 0.36 | 9.29  | 2.11 | 1.63 | 0.36 | 9.21  | 2.1  | 1.88 | 0.36 | 9.14  |
|   |   | 15 | 0.64 | 0.64 | 0.09 | 0.8   | 0.85 | 0.85 | 0.12 | 1.15  | 1.16 | 1.16 | 0.17 | 2.17  | 1.46 | 1.46 | 0.21 | 3.62  | 1.72 | 1.72 | 0.25 | 4.79  |
|   |   | 17 | 0.64 | 0.64 | 0.09 | 0.8   | 0.85 | 0.85 | 0.12 | 1.16  | 1.16 | 1.16 | 0.17 | 2.19  | 1.46 | 1.46 | 0.21 | 3.64  | 1.72 | 1.72 | 0.25 | 4.81  |
|   |   | 19 | -    | -    | -    | -     | 1.19 | 0.92 | 0.17 | 2.31  | 1.2  | 1.18 | 0.17 | 2.35  | 1.47 | 1.47 | 0.21 | 3.66  | 1.73 | 1.73 | 0.25 | 4.82  |
|   |   | 20 | -    | -    | -    | -     | 1.75 | 0.98 | 0.25 | 4.92  | 1.74 | 1.23 | 0.25 | 4.86  | 1.73 | 1.48 | 0.25 | 4.82  | 1.73 | 1.73 | 0.25 | 4.85  |

Continued:

| MUC-08-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11        | 3    | 15                   | 0.87                      | 0.87 | 0.25    | 4.84  | 1.12 | 1.12 | 0.32    | 7.5   | 1.38 | 1.38 | 0.4     | 10.61 | 1.63 | 1.63 | 0.47    | 14.14 | 1.88 | 1.88 | 0.54    | 18.1  |  |
|           |      | 17                   | 0.98                      | 0.87 | 0.28    | 5.91  | 1.12 | 1.12 | 0.32    | 7.53  | 1.38 | 1.38 | 0.4     | 10.65 | 1.63 | 1.63 | 0.47    | 14.2  | 1.89 | 1.89 | 0.54    | 18.16 |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.76 | 1.14 | 0.5     | 16.12 | 1.75 | 1.39 | 0.5     | 15.96 | 1.74 | 1.64 | 0.5     | 15.88 | 1.89 | 1.89 | 0.54    | 18.24 |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.18 | 1.14 | 0.63    | 23.3  | 2.17 | 1.39 | 0.62    | 23.09 | 2.16 | 1.64 | 0.62    | 22.87 | 2.15 | 1.9  | 0.62    | 22.69 |  |
|           | 4    | 15                   | 0.67                      | 0.67 | 0.15    | 1.62  | 0.98 | 0.98 | 0.21    | 3.68  | 1.24 | 1.24 | 0.27    | 5.44  | 1.5  | 1.5  | 0.32    | 7.47  | 1.75 | 1.75 | 0.38    | 9.74  |  |
|           |      | 17                   | 0.68                      | 0.68 | 0.15    | 1.62  | 0.98 | 0.98 | 0.21    | 3.69  | 1.24 | 1.24 | 0.27    | 5.46  | 1.5  | 1.5  | 0.32    | 7.49  | 1.75 | 1.75 | 0.38    | 9.78  |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.39 | 0.99 | 0.3     | 6.61  | 1.38 | 1.25 | 0.3     | 6.57  | 1.5  | 1.48 | 0.32    | 7.5   | 1.75 | 1.75 | 0.38    | 9.82  |  |
|           |      | 20                   | -                         | -    | -       | -     | 1.82 | 1    | 0.39    | 10.42 | 1.8  | 1.26 | 0.39    | 10.32 | 1.79 | 1.51 | 0.39    | 10.22 | 1.8  | 1.76 | 0.39    | 10.24 |  |
|           | 5    | 15                   | 0.53                      | 0.53 | 0.09    | 0.78  | 0.76 | 0.76 | 0.13    | 1.33  | 1.09 | 1.09 | 0.19    | 2.92  | 1.35 | 1.35 | 0.23    | 4.31  | 1.61 | 1.61 | 0.28    | 5.76  |  |
|           |      | 17                   | 0.54                      | 0.54 | 0.09    | 0.78  | 0.77 | 0.77 | 0.13    | 1.33  | 1.09 | 1.09 | 0.19    | 2.94  | 1.35 | 1.35 | 0.23    | 4.33  | 1.61 | 1.61 | 0.28    | 5.78  |  |
|           |      | 19                   | -                         | -    | -       | -     | 0.79 | 0.78 | 0.14    | 1.41  | 1.09 | 1.08 | 0.19    | 2.93  | 1.36 | 1.36 | 0.23    | 4.34  | 1.61 | 1.61 | 0.28    | 5.81  |  |
|           |      | 20                   | -                         | -    | -       | -     | 1.42 | 0.86 | 0.25    | 4.68  | 1.41 | 1.11 | 0.24    | 4.63  | 1.41 | 1.36 | 0.24    | 4.62  | 1.61 | 1.61 | 0.28    | 5.82  |  |
|           | 6    | 15                   | 0.44                      | 0.44 | 0.06    | 0.52  | 0.64 | 0.64 | 0.09    | 0.76  | 0.86 | 0.86 | 0.12    | 1.17  | 1.18 | 1.18 | 0.17    | 2.34  | 1.46 | 1.46 | 0.21    | 3.6   |  |
|           |      | 17                   | 0.44                      | 0.44 | 0.06    | 0.52  | 0.64 | 0.64 | 0.09    | 0.76  | 0.86 | 0.86 | 0.12    | 1.18  | 1.19 | 1.19 | 0.17    | 2.35  | 1.47 | 1.47 | 0.21    | 3.61  |  |
|           |      | 19                   | -                         | -    | -       | -     | 0.64 | 0.64 | 0.09    | 0.76  | 0.87 | 0.87 | 0.12    | 1.18  | 1.19 | 1.19 | 0.17    | 2.37  | 1.47 | 1.47 | 0.21    | 3.63  |  |
|           |      | 20                   | -                         | -    | -       | -     | 0.72 | 0.62 | 0.1     | 0.89  | 0.86 | 0.85 | 0.12    | 1.17  | 1.19 | 1.19 | 0.17    | 2.38  | 1.47 | 1.47 | 0.21    | 3.64  |  |
| 13        | 3    | 15                   | 0.6                       | 0.6  | 0.17    | 2.36  | 0.87 | 0.87 | 0.25    | 4.76  | 1.12 | 1.12 | 0.32    | 7.35  | 1.37 | 1.37 | 0.39    | 10.38 | 1.62 | 1.62 | 0.46    | 13.63 |  |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 |   | 17 | 0.6  | 0.6  | 0.17 | 2.38 | 0.87 | 0.87 | 0.25 | 4.77  | 1.12 | 1.12 | 0.32 | 7.38  | 1.37 | 1.37 | 0.39 | 10.42 | 1.62 | 1.62 | 0.46 | 13.69 |
|    |   | 19 | -    | -    | -    | -    | 1.06 | 0.87 | 0.3  | 6.68  | 1.11 | 1.08 | 0.32 | 7.26  | 1.38 | 1.38 | 0.4  | 10.46 | 1.63 | 1.63 | 0.46 | 13.74 |
|    |   | 20 | -    | -    | -    | -    | 1.47 | 0.88 | 0.42 | 11.74 | 1.47 | 1.13 | 0.42 | 11.61 | 1.46 | 1.38 | 0.42 | 11.6  | 1.63 | 1.63 | 0.46 | 13.77 |
|    | 4 | 15 | 0.43 | 0.43 | 0.09 | 0.75 | 0.69 | 0.69 | 0.15 | 1.67  | 0.98 | 0.98 | 0.21 | 3.59  | 1.23 | 1.23 | 0.26 | 5.23  | 1.48 | 1.48 | 0.32 | 7.17  |
|    |   | 17 | 0.43 | 0.43 | 0.09 | 0.75 | 0.69 | 0.69 | 0.15 | 1.69  | 0.98 | 0.98 | 0.21 | 3.6   | 1.23 | 1.23 | 0.26 | 5.25  | 1.49 | 1.49 | 0.32 | 7.2   |
|    |   | 19 | -    | -    | -    | -    | 0.69 | 0.68 | 0.15 | 1.68  | 0.99 | 0.99 | 0.21 | 3.62  | 1.24 | 1.24 | 0.26 | 5.27  | 1.49 | 1.49 | 0.32 | 7.23  |
|    |   | 20 | -    | -    | -    | -    | 1.07 | 0.74 | 0.23 | 4.17  | 1.07 | 0.99 | 0.23 | 4.16  | 1.24 | 1.24 | 0.27 | 5.28  | 1.49 | 1.49 | 0.32 | 7.25  |
|    | 5 | 15 | 0.33 | 0.33 | 0.06 | 0.45 | 0.53 | 0.53 | 0.09 | 0.73  | 0.77 | 0.77 | 0.13 | 1.34  | 1.09 | 1.09 | 0.19 | 2.89  | 1.35 | 1.35 | 0.23 | 4.16  |
|    |   | 17 | 0.33 | 0.33 | 0.06 | 0.45 | 0.53 | 0.53 | 0.09 | 0.73  | 0.78 | 0.78 | 0.13 | 1.35  | 1.09 | 1.09 | 0.19 | 2.9   | 1.35 | 1.35 | 0.23 | 4.18  |
|    |   | 19 | -    | -    | -    | -    | 0.53 | 0.53 | 0.09 | 0.73  | 0.78 | 0.78 | 0.13 | 1.36  | 1.09 | 1.09 | 0.19 | 2.92  | 1.34 | 1.34 | 0.23 | 4.21  |
|    |   | 20 | -    | -    | -    | -    | 0.52 | 0.49 | 0.09 | 0.72  | 0.78 | 0.78 | 0.13 | 1.36  | 1.09 | 1.09 | 0.19 | 2.93  | 1.36 | 1.36 | 0.23 | 4.2   |
|    | 6 | 15 | 0.24 | 0.24 | 0.03 | 0.26 | 0.44 | 0.44 | 0.06 | 0.49  | 0.64 | 0.64 | 0.09 | 0.72  | 0.87 | 0.87 | 0.12 | 1.18  | 1.19 | 1.19 | 0.17 | 2.4   |
|    |   | 17 | 0.24 | 0.24 | 0.03 | 0.26 | 0.44 | 0.44 | 0.06 | 0.49  | 0.64 | 0.64 | 0.09 | 0.72  | 0.87 | 0.87 | 0.13 | 1.2   | 1.2  | 1.2  | 0.17 | 2.41  |
|    |   | 19 | -    | -    | -    | -    | 0.44 | 0.44 | 0.06 | 0.49  | 0.64 | 0.64 | 0.09 | 0.72  | 0.88 | 0.88 | 0.13 | 1.19  | 1.2  | 1.2  | 0.17 | 2.43  |
|    |   | 20 | -    | -    | -    | -    | 0.44 | 0.44 | 0.06 | 0.49  | 0.64 | 0.64 | 0.09 | 0.72  | 0.88 | 0.88 | 0.13 | 1.2   | 1.2  | 1.2  | 0.17 | 2.43  |
|    | 3 | 15 | 0.32 | 0.32 | 0.09 | 0.72 | 0.6  | 0.6  | 0.17 | 2.46  | 0.86 | 0.86 | 0.25 | 4.65  | 1.11 | 1.11 | 0.32 | 7.19  | 1.37 | 1.37 | 0.39 | 10.15 |
|    |   | 17 | 0.32 | 0.32 | 0.09 | 0.72 | 0.6  | 0.6  | 0.17 | 2.47  | 0.87 | 0.87 | 0.25 | 4.67  | 1.12 | 1.12 | 0.32 | 7.21  | 1.37 | 1.37 | 0.39 | 10.18 |
|    |   | 19 | -    | -    | -    | -    | 0.6  | 0.6  | 0.17 | 2.49  | 0.87 | 0.87 | 0.25 | 4.69  | 1.12 | 1.12 | 0.32 | 7.24  | 1.37 | 1.37 | 0.39 | 10.23 |
|    |   | 20 | -    | -    | -    | -    | 0.71 | 0.61 | 0.2  | 3.37  | 0.86 | 0.85 | 0.25 | 4.68  | 1.12 | 1.12 | 0.32 | 7.26  | 1.37 | 1.37 | 0.39 | 10.25 |
|    | 4 | 15 | 0.23 | 0.23 | 0.05 | 0.37 | 0.42 | 0.42 | 0.09 | 0.71  | 0.7  | 0.7  | 0.15 | 1.78  | 0.99 | 0.99 | 0.21 | 3.51  | 1.23 | 1.23 | 0.26 | 5.19  |
|    |   | 17 | 0.23 | 0.23 | 0.05 | 0.37 | 0.42 | 0.42 | 0.09 | 0.71  | 0.7  | 0.7  | 0.15 | 1.8   | 0.98 | 0.98 | 0.21 | 3.53  | 1.23 | 1.23 | 0.27 | 5.21  |
|    |   | 19 | -    | -    | -    | -    | 0.43 | 0.43 | 0.09 | 0.72  | 0.7  | 0.7  | 0.15 | 1.81  | 0.98 | 0.98 | 0.21 | 3.55  | 1.24 | 1.24 | 0.27 | 5.23  |
|    |   | 20 | -    | -    | -    | -    | 0.43 | 0.43 | 0.09 | 0.72  | 0.7  | 0.7  | 0.15 | 1.82  | 0.99 | 0.99 | 0.21 | 3.56  | 1.24 | 1.24 | 0.27 | 5.24  |
|    | 5 | 15 | 0.13 | 0.13 | 0.02 | 0.16 | 0.33 | 0.33 | 0.06 | 0.43  | 0.53 | 0.53 | 0.09 | 0.71  | 0.8  | 0.8  | 0.14 | 1.47  | 1.1  | 1.1  | 0.19 | 2.92  |
|    |   | 17 | 0.15 | 0.15 | 0.02 | 0.18 | 0.33 | 0.33 | 0.06 | 0.43  | 0.53 | 0.53 | 0.09 | 0.71  | 0.8  | 0.8  | 0.14 | 1.48  | 1.09 | 1.09 | 0.19 | 2.93  |
|    |   | 19 | -    | -    | -    | -    | 0.34 | 0.34 | 0.06 | 0.44  | 0.53 | 0.53 | 0.09 | 0.71  | 0.8  | 0.8  | 0.14 | 1.49  | 1.1  | 1.1  | 0.19 | 2.94  |
|    |   | 20 | -    | -    | -    | -    | 0.33 | 0.33 | 0.06 | 0.44  | 0.53 | 0.53 | 0.09 | 0.71  | 0.8  | 0.8  | 0.14 | 1.48  | 1.1  | 1.1  | 0.19 | 2.95  |
|    | 6 | 15 | -    | -    | -    | -    | 0.24 | 0.24 | 0.03 | 0.25  | 0.44 | 0.44 | 0.06 | 0.47  | 0.63 | 0.63 | 0.09 | 0.7   | 0.89 | 0.89 | 0.13 | 1.26  |
|    |   | 17 | -    | -    | -    | -    | 0.24 | 0.24 | 0.03 | 0.25  | 0.44 | 0.44 | 0.06 | 0.47  | 0.63 | 0.63 | 0.09 | 0.7   | 0.9  | 0.9  | 0.13 | 1.27  |
|    |   | 19 | -    | -    | -    | -    | 0.24 | 0.24 | 0.03 | 0.25  | 0.44 | 0.44 | 0.06 | 0.47  | 0.64 | 0.64 | 0.09 | 0.7   | 0.9  | 0.9  | 0.13 | 1.28  |
|    |   | 20 | -    | -    | -    | -    | 0.24 | 0.24 | 0.03 | 0.25  | 0.44 | 0.44 | 0.06 | 0.47  | 0.64 | 0.64 | 0.09 | 0.7   | 0.9  | 0.9  | 0.13 | 1.28  |

| MUC-11-W9 |      |                      |                           |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|-----------|------|----------------------|---------------------------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|           |      |                      | 21                        |      |         |        | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |
|           |      |                      | TC                        | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |
| 5         | 3    | 15                   | 3.12                      | 2.45 | 0.89    | 59.72  | 3.11 | 2.82 | 0.89    | 59.3   | 3.2  | 3.19 | 0.92    | 63.2   | 3.57 | 3.57 | 1.03    | 76.46  | 3.94 | 3.94 | 1.14    | 91.13  |
|           |      | 17                   | 4.21                      | 2.46 | 1.21    | 100.51 | 4.2  | 2.84 | 1.22    | 101.8  | 4.18 | 3.21 | 1.2     | 99.42  | 4.16 | 3.58 | 1.19    | 98.69  | 4.15 | 3.95 | 1.19    | 98.27  |
|           |      | 19                   | -                         | -    | -       | -      | 5.37 | 2.86 | 1.55    | 155.09 | 5.36 | 3.23 | 1.54    | 154.31 | 5.34 | 3.6  | 1.54    | 153.49 | 5.32 | 3.97 | 1.53    | 152.67 |
|           |      | 20                   | -                         | -    | -       | -      | 6    | 2.87 | 1.73    | 188.09 | 5.98 | 3.24 | 1.72    | 187.16 | 5.96 | 3.62 | 1.72    | 186.16 | 5.95 | 3.99 | 1.71    | 185.21 |
|           | 4    | 15                   | 2.69                      | 2.25 | 0.58    | 27.9   | 2.71 | 2.63 | 0.58    | 28.22  | 3    | 3    | 0.64    | 33.66  | 3.37 | 3.37 | 0.72    | 41.2   | 3.74 | 3.74 | 0.8     | 49.33  |
|           |      | 17                   | 3.78                      | 2.27 | 0.81    | 50.25  | 3.77 | 2.64 | 0.81    | 49.88  | 3.75 | 3.01 | 0.8     | 49.46  | 3.74 | 3.38 | 0.8     | 49.19  | 3.79 | 3.76 | 0.81    | 50.35  |
|           |      | 19                   | -                         | -    | -       | -      | 4.94 | 2.66 | 1.06    | 79.97  | 4.92 | 3.03 | 1.06    | 79.53  | 4.91 | 3.4  | 1.05    | 79.08  | 4.89 | 3.77 | 1.05    | 78.6   |
|           |      | 20                   | -                         | -    | -       | -      | 5.57 | 2.67 | 1.2     | 99.7   | 5.56 | 3.04 | 1.2     | 99.17  | 5.54 | 3.42 | 1.2     | 98.66  | 5.52 | 3.79 | 1.19    | 98.14  |
|           | 5    | 15                   | 2.26                      | 2.05 | 0.39    | 14.06  | 2.43 | 2.42 | 0.42    | 16.05  | 2.8  | 2.8  | 0.48    | 20.47  | 3.17 | 3.17 | 0.54    | 25.1   | 3.55 | 3.55 | 0.61    | 30.66  |
|           |      | 17                   | 3.34                      | 2.07 | 0.57    | 27.4   | 3.32 | 2.44 | 0.57    | 27.16  | 3.31 | 2.81 | 0.57    | 26.96  | 3.32 | 3.18 | 0.57    | 27.17  | 3.55 | 3.55 | 0.61    | 30.77  |
|           |      | 19                   | -                         | -    | -       | -      | 4.49 | 2.45 | 0.77    | 45.76  | 4.48 | 2.83 | 0.77    | 45.48  | 4.46 | 3.2  | 0.77    | 45.16  | 4.44 | 3.57 | 0.76    | 44.8   |
|           |      | 20                   | -                         | -    | -       | -      | 5.13 | 2.47 | 0.88    | 57.97  | 5.11 | 2.84 | 0.88    | 57.63  | 5.1  | 3.22 | 0.88    | 57.33  | 5.08 | 3.59 | 0.88    | 56.97  |
|           | 6    | 15                   | 1.86                      | 1.85 | 0.27    | 7.47   | 2.22 | 2.22 | 0.32    | 10.1   | 2.6  | 2.6  | 0.37    | 13.15  | 2.97 | 2.97 | 0.42    | 16.37  | 3.34 | 3.34 | 0.48    | 20.04  |
|           |      | 17                   | 2.88                      | 1.87 | 0.41    | 15.61  | 2.86 | 2.24 | 0.41    | 15.48  | 2.87 | 2.61 | 0.41    | 15.5   | 2.99 | 2.98 | 0.43    | 16.6   | 3.35 | 3.35 | 0.48    | 20.11  |
|           |      | 19                   | -                         | -    | -       | -      | 4.04 | 2.26 | 0.58    | 27.65  | 4.02 | 2.63 | 0.57    | 27.44  | 4    | 3    | 0.57    | 27.22  | 3.99 | 3.36 | 0.57    | 27.04  |
|           |      | 20                   | -                         | -    | -       | -      | 4.66 | 2.26 | 0.67    | 35.34  | 4.64 | 2.64 | 0.66    | 35.13  | 4.63 | 3.01 | 0.66    | 35.02  | 4.61 | 3.38 | 0.66    | 34.98  |
| 7         | 3    | 15                   | 2.29                      | 2.06 | 0.66    | 34.98  | 2.44 | 2.43 | 0.7     | 38.97  | 2.81 | 2.81 | 0.81    | 49.14  | 3.18 | 3.18 | 0.91    | 61.11  | 3.55 | 3.55 | 1.02    | 74.04  |



# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 3.36 | 2.08 | 0.97 | 67.83 | 3.35 | 2.45 | 0.97 | 67.26  | 3.33 | 2.82 | 0.96 | 66.7   | 3.33 | 3.19 | 0.96 | 66.71  | 3.56 | 3.56 | 1.02 | 74.3   |
|   |   | 19 | -    | -    | -    | -     | 4.52 | 2.46 | 1.3  | 113.33 | 4.5  | 2.84 | 1.3  | 112.62 | 4.48 | 3.21 | 1.3  | 111.91 | 4.46 | 3.58 | 1.29 | 111.04 |
|   |   | 20 | -    | -    | -    | -     | 5.14 | 2.47 | 1.49 | 142.6  | 5.12 | 2.85 | 1.48 | 141.83 | 5.11 | 3.22 | 1.48 | 141.07 | 5.11 | 3.59 | 1.51 | 146.1  |
|   |   | 15 | 1.9  | 1.88 | 0.41 | 15.34 | 2.24 | 2.24 | 0.48 | 20.15  | 2.61 | 2.61 | 0.56 | 26.23  | 2.99 | 2.99 | 0.65 | 33.37  | 3.36 | 3.36 | 0.73 | 40.89  |
|   |   | 17 | 2.91 | 1.88 | 0.63 | 31.95 | 2.9  | 2.25 | 0.63 | 31.67  | 2.89 | 2.62 | 0.63 | 31.58  | 3.01 | 3    | 0.65 | 33.76  | 3.37 | 3.37 | 0.73 | 40.99  |
|   |   | 19 | -    | -    | -    | -     | 4.06 | 2.27 | 0.87 | 56.31  | 4.04 | 2.64 | 0.87 | 55.88  | 4.02 | 3.01 | 0.87 | 55.42  | 4.01 | 3.38 | 0.86 | 54.99  |
|   |   | 20 | -    | -    | -    | -     | 4.68 | 2.28 | 1.01 | 72.54  | 4.67 | 2.65 | 1.01 | 72.12  | 4.65 | 3.02 | 1.01 | 71.65  | 4.63 | 3.39 | 1    | 71.12  |
|   |   | 15 | 1.67 | 1.67 | 0.29 | 8.38  | 2.04 | 2.04 | 0.35 | 11.7   | 2.42 | 2.42 | 0.41 | 15.58  | 2.79 | 2.79 | 0.48 | 19.9   | 3.16 | 3.16 | 0.54 | 24.64  |
|   |   | 17 | 2.43 | 1.68 | 0.42 | 15.74 | 2.42 | 2.05 | 0.42 | 15.66  | 2.49 | 2.43 | 0.43 | 16.37  | 2.79 | 2.79 | 0.48 | 19.97  | 3.17 | 3.17 | 0.54 | 24.73  |
|   |   | 19 | -    | -    | -    | -     | 3.6  | 2.07 | 0.62 | 31.05  | 3.58 | 2.44 | 0.62 | 30.77  | 3.5  | 2.65 | 0.6  | 34.1   | 3.56 | 3.18 | 0.61 | 30.43  |
|   |   | 20 | -    | -    | -    | -     | 4.21 | 2.08 | 0.72 | 40.4   | 4.19 | 2.45 | 0.72 | 40.13  | 4.17 | 2.82 | 0.72 | 39.81  | 4.16 | 3.19 | 0.71 | 39.5   |
|   |   | 15 | 1.45 | 1.45 | 0.21 | 4.73  | 1.84 | 1.84 | 0.26 | 7.22   | 2.22 | 2.22 | 0.32 | 9.89   | 2.59 | 2.59 | 0.37 | 12.81  | 2.96 | 2.96 | 0.43 | 16.15  |
|   |   | 17 | 1.94 | 1.48 | 0.28 | 7.85  | 1.96 | 1.85 | 0.28 | 8.04   | 2.22 | 2.22 | 0.32 | 9.92   | 2.6  | 2.6  | 0.37 | 12.85  | 2.97 | 2.97 | 0.43 | 16.21  |
|   |   | 19 | -    | -    | -    | -     | 3.11 | 1.87 | 0.45 | 17.56  | 3.09 | 2.24 | 0.44 | 17.4   | 3.08 | 2.61 | 0.44 | 17.23  | 3.13 | 2.99 | 0.45 | 17.75  |
|   |   | 20 | -    | -    | -    | -     | 3.73 | 1.88 | 0.54 | 23.98  | 3.71 | 2.25 | 0.53 | 23.77  | 3.69 | 2.62 | 0.53 | 23.57  | 3.68 | 2.99 | 0.53 | 23.42  |
|   | 5 | 15 | 1.68 | 1.68 | 0.48 | 19.86 | 2.06 | 2.06 | 0.59 | 28.45  | 2.42 | 2.42 | 0.69 | 37.33  | 2.8  | 2.8  | 0.81 | 48.46  | 3.17 | 3.17 | 0.91 | 60.21  |
|   |   | 17 | 2.46 | 1.69 | 0.7  | 38.18 | 2.44 | 2.06 | 0.7  | 37.89  | 2.48 | 2.44 | 0.71 | 38.81  | 2.8  | 2.8  | 0.81 | 48.64  | 3.17 | 3.17 | 0.92 | 60.43  |
|   |   | 19 | -    | -    | -    | -     | 3.61 | 2.08 | 1.04 | 75.75  | 3.6  | 2.45 | 1.04 | 75.18  | 3.58 | 2.82 | 1.03 | 74.44  | 3.56 | 3.18 | 1.03 | 73.97  |
|   |   | 20 | -    | -    | -    | -     | 4.22 | 2.08 | 1.21 | 98.42  | 4.21 | 2.45 | 1.21 | 97.78  | 4.2  | 2.83 | 1.22 | 98.84  | 4.17 | 3.19 | 1.2  | 96.24  |
|   | 6 | 15 | 1.49 | 1.49 | 0.32 | 9.88  | 1.86 | 1.86 | 0.4  | 14.38  | 2.23 | 2.23 | 0.48 | 19.86  | 2.6  | 2.6  | 0.56 | 25.82  | 2.97 | 2.97 | 0.64 | 32.1   |
|   |   | 17 | 1.98 | 1.49 | 0.43 | 16.07 | 2    | 1.87 | 0.43 | 16.31  | 2.24 | 2.23 | 0.48 | 19.93  | 2.61 | 2.61 | 0.56 | 25.92  | 2.98 | 2.98 | 0.64 | 32.21  |
|   |   | 19 | -    | -    | -    | -     | 3.12 | 1.88 | 0.67 | 34.98  | 3.1  | 2.25 | 0.67 | 34.65  | 3.09 | 2.62 | 0.66 | 34.43  | 3.12 | 2.99 | 0.67 | 34.9   |
|   |   | 20 | -    | -    | -    | -     | 3.74 | 1.88 | 0.8  | 47.8   | 3.72 | 2.25 | 0.8  | 47.41  | 3.7  | 2.62 | 0.8  | 47.03  | 3.69 | 2.99 | 0.79 | 46.67  |
|   | 7 | 15 | 1.28 | 1.28 | 0.22 | 5.24  | 1.66 | 1.66 | 0.29 | 8.12   | 2.04 | 2.04 | 0.35 | 11.45  | 2.41 | 2.41 | 0.41 | 15.21  | 2.78 | 2.78 | 0.48 | 19.41  |
|   |   | 17 | 1.47 | 1.29 | 0.25 | 6.63  | 1.67 | 1.66 | 0.29 | 8.17   | 2.04 | 2.04 | 0.35 | 11.49  | 2.41 | 2.41 | 0.41 | 15.27  | 2.78 | 2.78 | 0.48 | 19.49  |
|   |   | 19 | -    | -    | -    | -     | 2.62 | 1.68 | 0.45 | 17.59  | 2.61 | 2.05 | 0.45 | 17.47  | 2.63 | 2.42 | 0.45 | 17.65  | 2.8  | 2.79 | 0.48 | 19.76  |
|   |   | 20 | -    | -    | -    | -     | 3.24 | 1.69 | 0.56 | 25.3   | 3.22 | 2.06 | 0.55 | 25.06  | 3.21 | 2.43 | 0.55 | 24.84  | 3.2  | 2.8  | 0.55 | 24.78  |
|   | 8 | 15 | 0.98 | 0.98 | 0.14 | 1.99  | 1.46 | 1.46 | 0.21 | 4.77   | 1.84 | 1.84 | 0.26 | 7.08   | 2.22 | 2.22 | 0.32 | 9.68   | 2.59 | 2.59 | 0.37 | 12.61  |
|   |   | 17 | 0.98 | 0.98 | 0.14 | 2     | 1.46 | 1.46 | 0.21 | 4.79   | 1.84 | 1.84 | 0.26 | 7.11   | 2.22 | 2.22 | 0.32 | 9.72   | 2.59 | 2.59 | 0.37 | 12.66  |
|   |   | 19 | -    | -    | -    | -     | 2.1  | 1.48 | 0.3  | 8.87   | 2.11 | 1.85 | 0.3  | 8.94   | 2.26 | 2.23 | 0.32 | 10.05  | 2.6  | 2.6  | 0.37 | 12.73  |
|   |   | 20 | -    | -    | -    | -     | 2.72 | 1.49 | 0.39 | 13.62  | 2.7  | 1.86 | 0.39 | 13.48  | 2.7  | 2.23 | 0.39 | 13.45  | 2.76 | 2.61 | 0.39 | 13.96  |

Continued:

| MUC-11-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11        | 3    | 15                   | 1.3                       | 1.3  | 0.37    | 12.74 | 1.67 | 1.67 | 0.48    | 19.57 | 2.04 | 2.04 | 0.59    | 27.76 | 2.41 | 2.41 | 0.7     | 37.01 | 2.78 | 2.78 | 0.8     | 46.98 |  |
|           |      | 17                   | 1.51                      | 1.3  | 0.43    | 16.41 | 1.67 | 1.67 | 0.48    | 19.65 | 2.05 | 2.05 | 0.59    | 27.88 | 2.42 | 2.42 | 0.7     | 37.14 | 2.79 | 2.79 | 0.8     | 47.14 |  |
|           |      | 19                   | -                         | -    | -       | -     | 2.64 | 1.69 | 0.76    | 42.83 | 2.62 | 2.06 | 0.75    | 42.48 | 2.63 | 2.42 | 0.76    | 42.58 | 2.79 | 2.79 | 0.8     | 47.4  |  |
|           |      | 20                   | -                         | -    | -       | -     | 3.26 | 1.69 | 0.94    | 61.92 | 3.24 | 2.06 | 0.93    | 61.29 | 3.22 | 2.43 | 0.93    | 60.68 | 3.2  | 2.79 | 0.92    | 60.34 |  |
|           | 4    | 15                   | 1.1                       | 1.1  | 0.24    | 5.94  | 1.48 | 1.48 | 0.32    | 9.76  | 1.85 | 1.85 | 0.4     | 14.13 | 2.22 | 2.22 | 0.48    | 19.3  | 2.59 | 2.59 | 0.56    | 25.11 |  |
|           |      | 17                   | 1.11                      | 1.09 | 0.24    | 5.97  | 1.48 | 1.48 | 0.32    | 9.8   | 1.85 | 1.85 | 0.4     | 14.18 | 2.23 | 2.23 | 0.48    | 19.37 | 2.6  | 2.6  | 0.56    | 25.2  |  |
|           |      | 19                   | -                         | -    | -       | -     | 2.13 | 1.49 | 0.46    | 17.9  | 2.13 | 1.86 | 0.46    | 17.95 | 2.26 | 2.24 | 0.49    | 19.89 | 2.6  | 2.6  | 0.56    | 25.3  |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.74 | 1.5  | 0.59    | 27.73 | 2.73 | 1.87 | 0.59    | 27.45 | 2.72 | 2.24 | 0.59    | 27.27 | 2.75 | 2.61 | 0.59    | 27.86 |  |
|           | 5    | 15                   | 0.84                      | 0.84 | 0.14    | 2.12  | 1.28 | 1.28 | 0.22    | 5.22  | 1.66 | 1.66 | 0.29    | 8.05  | 2.03 | 2.03 | 0.35    | 11.33 | 2.4  | 2.4  | 0.42    | 15.08 |  |
|           |      | 17                   | 0.84                      | 0.84 | 0.15    | 2.13  | 1.29 | 1.29 | 0.22    | 5.24  | 1.67 | 1.67 | 0.29    | 8.08  | 2.04 | 2.04 | 0.35    | 11.37 | 2.41 | 2.41 | 0.42    | 15.13 |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.6  | 1.29 | 0.28    | 7.57  | 1.71 | 1.68 | 0.3     | 8.5   | 2.04 | 2.04 | 0.35    | 11.42 | 2.41 | 2.41 | 0.42    | 15.19 |  |
|           |      | 20                   | -                         | -    | -       | -     | 2.2  | 1.3  | 0.38    | 12.87 | 2.19 | 1.67 | 0.38    | 12.79 | 2.22 | 2.05 | 0.38    | 13.11 | 2.43 | 2.42 | 0.42    | 15.41 |  |
|           | 6    | 15                   | 0.63                      | 0.63 | 0.09    | 0.99  | 1.01 | 1.01 | 0.15    | 2.15  | 1.46 | 1.46 | 0.21    | 4.74  | 1.83 | 1.83 | 0.26    | 6.91  | 2.2  | 2.2  | 0.32    | 9.44  |  |
|           |      | 17                   | 0.63                      | 0.63 | 0.09    | 0.99  | 1.02 | 1.02 | 0.15    | 2.16  | 1.46 | 1.46 | 0.21    | 4.76  | 1.84 | 1.84 | 0.26    | 6.94  | 2.21 | 2.21 | 0.32    | 9.48  |  |
|           |      | 19                   | -                         | -    | -       | -     | 1.01 | 1    | 0.15    | 2.15  | 1.47 | 1.46 | 0.21    | 4.78  | 1.84 | 1.84 | 0.26    | 6.97  | 2.21 | 2.21 | 0.32    | 9.51  |  |
|           |      | 20                   | -                         | -    | -       | -     | 1.63 | 1.1  | 0.23    | 5.66  | 1.65 | 1.47 | 0.24    | 5.8   | 1.87 | 1.85 | 0.27    | 7.12  | 2.22 | 2.22 | 0.32    | 9.53  |  |
| 13        | 3    | 15                   | 0.92                      | 0.92 | 0.27    | 7.02  | 1.29 | 1.29 | 0.37    | 12.25 | 1.67 | 1.67 | 0.48    | 19.16 | 2.03 | 2.03 | 0.58    | 26.58 | 2.4  | 2.4  | 0.69    | 35.48 |  |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.93 | 0.93 | 0.27 | 7.05 | 1.3  | 1.3  | 0.37 | 12.3  | 1.67 | 1.67 | 0.48 | 19.23 | 2.04 | 2.04 | 0.58 | 26.68 | 2.4  | 2.4  | 0.69 | 35.61 |
|    |   | 19 | -    | -    | -    | -    | 1.63 | 1.3  | 0.47 | 18.36 | 1.71 | 1.7  | 0.49 | 19.93 | 2.04 | 2.04 | 0.58 | 26.79 | 2.41 | 2.41 | 0.69 | 35.76 |
|    |   | 20 | -    | -    | -    | -    | 2.22 | 1.31 | 0.64 | 31.27 | 2.21 | 1.68 | 0.63 | 30.99 | 2.22 | 2.05 | 0.64 | 31.27 | 2.41 | 2.41 | 0.69 | 35.87 |
|    |   | 15 | 0.68 | 0.68 | 0.15 | 2.19 | 1.1  | 1.1  | 0.24 | 5.71  | 1.47 | 1.47 | 0.32 | 9.37  | 1.84 | 1.84 | 0.39 | 13.71 | 2.21 | 2.21 | 0.48 | 18.91 |
|    |   | 17 | 0.68 | 0.68 | 0.15 | 2.21 | 1.1  | 1.1  | 0.24 | 5.73  | 1.48 | 1.48 | 0.32 | 9.4   | 1.85 | 1.85 | 0.4  | 13.76 | 2.22 | 2.22 | 0.48 | 18.98 |
|    |   | 19 | -    | -    | -    | -    | 1.13 | 1.12 | 0.24 | 6.02  | 1.48 | 1.48 | 0.32 | 9.44  | 1.85 | 1.85 | 0.4  | 13.82 | 2.22 | 2.22 | 0.48 | 19.06 |
|    |   | 20 | -    | -    | -    | -    | 1.67 | 1.11 | 0.36 | 11.62 | 1.69 | 1.49 | 0.36 | 11.77 | 1.88 | 1.87 | 0.4  | 14.28 | 2.23 | 2.23 | 0.48 | 19.1  |
|    |   | 15 | 0.48 | 0.48 | 0.08 | 0.86 | 0.85 | 0.85 | 0.15 | 2.19  | 1.28 | 1.28 | 0.22 | 5.05  | 1.66 | 1.66 | 0.28 | 7.77  | 2.02 | 2.02 | 0.35 | 10.93 |
|    |   | 17 | 0.48 | 0.48 | 0.08 | 0.86 | 0.86 | 0.86 | 0.15 | 2.21  | 1.28 | 1.28 | 0.22 | 5.07  | 1.66 | 1.66 | 0.28 | 7.8   | 2.03 | 2.03 | 0.35 | 10.97 |
|    |   | 19 | -    | -    | -    | -    | 0.86 | 0.86 | 0.15 | 2.23  | 1.29 | 1.29 | 0.22 | 5.09  | 1.66 | 1.66 | 0.28 | 7.83  | 2.03 | 2.03 | 0.35 | 11.01 |
|    |   | 20 | -    | -    | -    | -    | 1.08 | 0.91 | 0.19 | 3.76  | 1.3  | 1.3  | 0.22 | 5.17  | 1.66 | 1.66 | 0.29 | 7.84  | 2.03 | 2.03 | 0.35 | 11.04 |
|    |   | 15 | 0.34 | 0.34 | 0.05 | 0.5  | 0.63 | 0.63 | 0.09 | 0.93  | 1.03 | 1.03 | 0.15 | 2.26  | 1.46 | 1.46 | 0.21 | 4.6   | 1.83 | 1.83 | 0.26 | 6.75  |
|    |   | 17 | 0.34 | 0.34 | 0.05 | 0.5  | 0.63 | 0.63 | 0.09 | 0.94  | 1.04 | 1.04 | 0.15 | 2.27  | 1.46 | 1.46 | 0.21 | 4.62  | 1.83 | 1.83 | 0.26 | 6.77  |
|    |   | 19 | -    | -    | -    | -    | 0.63 | 0.63 | 0.09 | 0.94  | 1.04 | 1.04 | 0.15 | 2.29  | 1.46 | 1.46 | 0.21 | 4.64  | 1.84 | 1.84 | 0.26 | 6.8   |
|    |   | 20 | -    | -    | -    | -    | 0.63 | 0.63 | 0.09 | 0.94  | 1.04 | 1.04 | 0.15 | 2.3   | 1.47 | 1.47 | 0.21 | 4.65  | 1.84 | 1.84 | 0.26 | 6.82  |
|    | 5 | 15 | 0.52 | 0.52 | 0.15 | 2.3  | 0.92 | 0.92 | 0.26 | 6.87  | 1.3  | 1.3  | 0.37 | 12.41 | 1.66 | 1.66 | 0.48 | 18.98 | 2.03 | 2.03 | 0.58 | 26.6  |
|    |   | 17 | 0.52 | 0.52 | 0.15 | 2.32 | 0.92 | 0.92 | 0.26 | 6.89  | 1.29 | 1.29 | 0.38 | 12.46 | 1.66 | 1.66 | 0.48 | 19.05 | 2.03 | 2.03 | 0.59 | 26.67 |
|    |   | 19 | -    | -    | -    | -    | 0.92 | 0.92 | 0.27 | 6.92  | 1.3  | 1.3  | 0.38 | 12.5  | 1.67 | 1.67 | 0.48 | 19.13 | 2.04 | 2.04 | 0.59 | 26.9  |
|    |   | 20 | -    | -    | -    | -    | 1.14 | 0.93 | 0.33 | 9.83  | 1.31 | 1.29 | 0.38 | 12.63 | 1.67 | 1.67 | 0.48 | 19.17 | 2.04 | 2.04 | 0.59 | 26.82 |
|    | 6 | 15 | 0.33 | 0.33 | 0.07 | 0.71 | 0.7  | 0.7  | 0.15 | 2.36  | 1.1  | 1.1  | 0.24 | 5.68  | 1.47 | 1.47 | 0.32 | 9.39  | 1.84 | 1.84 | 0.4  | 13.71 |
|    |   | 17 | 0.33 | 0.33 | 0.07 | 0.71 | 0.7  | 0.7  | 0.15 | 2.37  | 1.1  | 1.1  | 0.24 | 5.7   | 1.48 | 1.48 | 0.32 | 9.43  | 1.84 | 1.84 | 0.4  | 13.76 |
|    |   | 19 | -    | -    | -    | -    | 0.7  | 0.7  | 0.15 | 2.39  | 1.11 | 1.11 | 0.24 | 5.72  | 1.47 | 1.47 | 0.32 | 9.47  | 1.85 | 1.85 | 0.4  | 13.81 |
|    |   | 20 | -    | -    | -    | -    | 0.7  | 0.68 | 0.15 | 2.38  | 1.11 | 1.11 | 0.24 | 5.73  | 1.48 | 1.48 | 0.32 | 9.49  | 1.85 | 1.85 | 0.4  | 13.84 |
|    | 7 | 15 | 0.18 | 0.18 | 0.03 | 0.32 | 0.48 | 0.48 | 0.08 | 0.83  | 0.88 | 0.88 | 0.15 | 2.45  | 1.28 | 1.28 | 0.22 | 5.04  | 1.65 | 1.65 | 0.29 | 7.73  |
|    |   | 17 | 0.19 | 0.19 | 0.03 | 0.32 | 0.48 | 0.48 | 0.08 | 0.83  | 0.88 | 0.88 | 0.15 | 2.47  | 1.28 | 1.28 | 0.22 | 5.06  | 1.65 | 1.65 | 0.29 | 7.76  |
|    |   | 19 | -    | -    | -    | -    | 0.48 | 0.48 | 0.08 | 0.83  | 0.89 | 0.89 | 0.15 | 2.49  | 1.28 | 1.28 | 0.22 | 5.08  | 1.66 | 1.66 | 0.29 | 7.79  |
|    |   | 20 | -    | -    | -    | -    | 0.48 | 0.48 | 0.08 | 0.83  | 0.89 | 0.89 | 0.15 | 2.5   | 1.29 | 1.29 | 0.22 | 5.09  | 1.66 | 1.66 | 0.29 | 7.81  |
|    | 8 | 15 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.48  | 0.63 | 0.63 | 0.09 | 0.9   | 1.06 | 1.06 | 0.15 | 2.48  | 1.46 | 1.46 | 0.21 | 4.58  |
|    |   | 17 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.48  | 0.63 | 0.63 | 0.09 | 0.91  | 1.06 | 1.06 | 0.15 | 2.5   | 1.46 | 1.46 | 0.21 | 4.6   |
|    |   | 19 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.48  | 0.63 | 0.63 | 0.09 | 0.91  | 1.06 | 1.06 | 0.15 | 2.52  | 1.46 | 1.46 | 0.21 | 4.61  |
|    |   | 20 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.48  | 0.63 | 0.63 | 0.09 | 0.91  | 1.07 | 1.07 | 0.15 | 2.52  | 1.46 | 1.46 | 0.21 | 4.62  |

| MUC-16-W9 |      |                      |                           |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|-----------|------|----------------------|---------------------------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|           |      |                      | 21                        |      |         |        | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|           |      |                      | TC                        | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5         | 3    | 15                   | 3.98                      | 3.11 | 1.15    | 92.49  | 3.96 | 3.58 | 1.15    | 92.04  | 4.06 | 4.06 | 1.17    | 94.78  | 4.53 | 4.53 | 1.31    | 116.45 | 5    | 5    | 1.45    | 138.23 |  |
|           |      | 17                   | 5.34                      | 3.12 | 1.54    | 153.77 | 5.33 | 3.6  | 1.53    | 152.88 | 5.31 | 4.07 | 1.53    | 151.93 | 5.28 | 4.54 | 1.52    | 150.59 | 5.28 | 5.02 | 1.52    | 150.26 |  |
|           |      | 19                   | -                         | -    | -       | -      | 6.81 | 3.62 | 1.96    | 235    | 6.79 | 4.09 | 1.96    | 233.76 | 6.77 | 4.56 | 1.95    | 232.5  | 6.75 | 5.03 | 1.94    | 231.21 |  |
|           |      | 20                   | -                         | -    | -       | -      | 7.6  | 3.63 | 2.19    | 284.94 | 7.58 | 4.1  | 2.18    | 283.5  | 7.56 | 4.58 | 2.18    | 282.09 | 7.54 | 5.05 | 2.17    | 280.63 |  |
|           | 4    | 15                   | 3.43                      | 2.86 | 0.74    | 42.52  | 3.47 | 3.34 | 0.74    | 43.26  | 3.8  | 3.8  | 0.82    | 50.8   | 4.28 | 4.28 | 0.92    | 62.99  | 4.75 | 4.75 | 1.03    | 75.48  |  |
|           |      | 17                   | 4.82                      | 2.88 | 1.04    | 77.2   | 4.8  | 3.35 | 1.04    | 76.68  | 4.78 | 3.82 | 1.03    | 76.1   | 4.76 | 4.29 | 1.03    | 75.65  | 4.84 | 4.77 | 1.04    | 77.84  |  |
|           |      | 19                   | -                         | -    | -       | -      | 6.28 | 3.37 | 1.36    | 123.29 | 6.26 | 3.85 | 1.36    | 122.63 | 6.24 | 4.32 | 1.35    | 121.96 | 6.21 | 4.78 | 1.34    | 119.7  |  |
|           |      | 20                   | -                         | -    | -       | -      | 7.07 | 3.38 | 1.53    | 151.89 | 7.05 | 3.85 | 1.53    | 151.18 | 7.03 | 4.33 | 1.52    | 150.31 | 7.01 | 4.8  | 1.52    | 149.54 |  |
|           | 5    | 15                   | 2.89                      | 2.61 | 0.5     | 21.44  | 3.1  | 3.09 | 0.53    | 24.2   | 3.56 | 3.56 | 0.61    | 30.93  | 4.03 | 4.03 | 0.69    | 38.3   | 4.5  | 4.5  | 0.77    | 45.91  |  |
|           |      | 17                   | 4.25                      | 2.62 | 0.73    | 41.6   | 4.23 | 3.1  | 0.73    | 41.22  | 4.21 | 3.57 | 0.72    | 40.9   | 4.25 | 4.04 | 0.73    | 41.53  | 4.51 | 4.51 | 0.77    | 46.11  |  |
|           |      | 19                   | -                         | -    | -       | -      | 5.73 | 3.12 | 0.99    | 70.35  | 5.71 | 3.6  | 0.99    | 69.95  | 5.69 | 4.07 | 0.98    | 69.49  | 5.66 | 4.53 | 0.97    | 68.56  |  |
|           |      | 20                   | -                         | -    | -       | -      | 6.51 | 3.13 | 1.12    | 87.18  | 6.49 | 3.6  | 1.12    | 87.15  | 6.47 | 4.08 | 1.12    | 87.16  | 6.45 | 4.55 | 1.11    | 86.64  |  |
|           | 6    | 15                   | 2.44                      | 2.37 | 0.35    | 11.82  | 2.84 | 2.84 | 0.41    | 15.27  | 3.31 | 3.31 | 0.47    | 19.71  | 3.78 | 3.78 | 0.54    | 24.77  | 4.26 | 4.26 | 0.61    | 30.53  |  |
|           |      | 17                   | 3.68                      | 2.38 | 0.53    | 23.57  | 3.66 | 2.85 | 0.52    | 23.33  | 3.67 | 3.32 | 0.52    | 23.47  | 3.85 | 3.8  | 0.55    | 25.54  | 4.27 | 4.27 | 0.61    | 30.64  |  |
|           |      | 19                   | -                         | -    | -       | -      | 5.16 | 2.87 | 0.74    | 42.43  | 5.14 | 3.34 | 0.74    | 42.12  | 5.11 | 3.81 | 0.73    | 41.78  | 5.09 | 4.28 | 0.73    | 41.5   |  |
|           |      | 20                   | -                         | -    | -       | -      | 5.93 | 2.88 | 0.85    | 53.67  | 5.91 | 3.35 | 0.85    | 53.35  | 5.89 | 3.82 | 0.84    | 53.01  | 5.86 | 4.29 | 0.84    | 52.61  |  |
| 7         | 3    | 15                   | 2.91                      | 2.62 | 0.84    | 52.28  | 3.1  | 3.1  | 0.9     | 59     | 3.56 | 3.56 | 1.02    | 74.54  | 4.04 | 4.04 | 1.16    | 92.86  | 4.5  | 4.5  | 1.3     | 112.92 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 4.29 | 2.64 | 1.24 | 103.94 | 4.25 | 3.1  | 1.23 | 101.83 | 4.23 | 3.58 | 1.23 | 101.65 | 4.24 | 4.05 | 1.23 | 101.7  | 4.52 | 4.51 | 1.3  | 113.31 |
|   |   | 19 | -    | -    | -    | -      | 5.74 | 3.13 | 1.67 | 175.17 | 5.72 | 3.6  | 1.67 | 174.03 | 5.7  | 4.07 | 1.66 | 173.12 | 5.68 | 4.54 | 1.65 | 171.78 |
|   |   | 20 | -    | -    | -    | -      | 6.52 | 3.14 | 1.9  | 219.04 | 6.5  | 3.61 | 1.9  | 217.84 | 6.48 | 4.08 | 1.89 | 216.64 | 6.46 | 4.55 | 1.88 | 215.49 |
|   |   | 15 | 2.44 | 2.38 | 0.52 | 23.41  | 2.86 | 2.86 | 0.62 | 30.86  | 3.33 | 3.33 | 0.72 | 40.19  | 3.8  | 3.8  | 0.82 | 50.5   | 4.26 | 4.26 | 0.92 | 61.36  |
|   | 4 | 17 | 3.71 | 2.39 | 0.8  | 48.61  | 3.69 | 2.86 | 0.8  | 48.11  | 3.69 | 3.33 | 0.8  | 48.03  | 3.84 | 3.81 | 0.83 | 51.27  | 4.27 | 4.27 | 0.92 | 61.57  |
|   |   | 19 | -    | -    | -    | -      | 5.17 | 2.87 | 1.11 | 85.54  | 5.15 | 3.35 | 1.11 | 85.19  | 5.13 | 3.82 | 1.11 | 85.29  | 5.11 | 4.29 | 1.11 | 84.88  |
|   |   | 20 | -    | -    | -    | -      | 5.95 | 2.89 | 1.29 | 109.84 | 5.93 | 3.36 | 1.28 | 109.21 | 5.91 | 3.83 | 1.28 | 108.56 | 5.89 | 4.3  | 1.28 | 108.41 |
|   |   | 15 | 2.13 | 2.12 | 0.37 | 12.56  | 2.6  | 2.6  | 0.45 | 17.73  | 3.08 | 3.08 | 0.53 | 23.58  | 3.55 | 3.55 | 0.61 | 30.4   | 4.02 | 4.02 | 0.69 | 37.29  |
|   | 5 | 17 | 3.11 | 2.14 | 0.53 | 24.02  | 3.1  | 2.61 | 0.53 | 23.93  | 3.21 | 3.09 | 0.55 | 25.33  | 3.56 | 3.56 | 0.61 | 30.5   | 4.02 | 4.02 | 0.69 | 37.42  |
|   |   | 19 | -    | -    | -    | -      | 4.59 | 2.63 | 0.79 | 47.27  | 4.57 | 3.1  | 0.79 | 46.84  | 4.3  | 3.25 | 0.74 | 54.2   | 4.54 | 4.04 | 0.78 | 46.34  |
|   |   | 20 | -    | -    | -    | -      | 5.37 | 2.64 | 0.93 | 62.13  | 5.35 | 3.11 | 0.93 | 61.76  | 5.33 | 3.58 | 0.92 | 61.3   | 5.3  | 4.05 | 0.92 | 60.78  |
|   |   | 15 | 1.88 | 1.88 | 0.27 | 7.45   | 2.36 | 2.36 | 0.34 | 10.96  | 2.83 | 2.83 | 0.41 | 14.98  | 3.31 | 3.31 | 0.48 | 19.55  | 3.78 | 3.78 | 0.54 | 24.53  |
|   | 6 | 17 | 2.49 | 1.88 | 0.36 | 11.99  | 2.56 | 2.37 | 0.37 | 12.54  | 2.85 | 2.84 | 0.41 | 15.15  | 3.32 | 3.32 | 0.48 | 19.62  | 3.79 | 3.79 | 0.54 | 24.61  |
|   |   | 19 | -    | -    | -    | -      | 3.98 | 2.38 | 0.57 | 26.75  | 3.95 | 2.85 | 0.57 | 26.48  | 3.94 | 3.32 | 0.57 | 26.4   | 4.03 | 3.8  | 0.58 | 27.39  |
|   |   | 20 | -    | -    | -    | -      | 4.75 | 2.39 | 0.68 | 36.19  | 4.73 | 2.86 | 0.68 | 35.88  | 4.71 | 3.33 | 0.67 | 35.54  | 4.69 | 3.8  | 0.67 | 35.29  |
|   |   | 15 | 2.14 | 2.14 | 0.62 | 30.53  | 2.62 | 2.62 | 0.75 | 43.11  | 3.08 | 3.08 | 0.88 | 56.6   | 3.55 | 3.55 | 1.03 | 73.62  | 4.02 | 4.02 | 1.16 | 91.67  |
| 9 | 3 | 17 | 3.13 | 2.14 | 0.9  | 58.12  | 3.11 | 2.61 | 0.89 | 57.62  | 3.18 | 3.1  | 0.92 | 60.63  | 3.56 | 3.56 | 1.03 | 73.87  | 4.03 | 4.03 | 1.17 | 91.98  |
|   |   | 19 | -    | -    | -    | -      | 4.6  | 2.64 | 1.34 | 116.25 | 4.58 | 3.11 | 1.33 | 115.31 | 4.56 | 3.58 | 1.32 | 114.29 | 4.54 | 4.04 | 1.32 | 113.53 |
|   |   | 20 | -    | -    | -    | -      | 5.37 | 2.64 | 1.55 | 150.8  | 5.35 | 3.11 | 1.54 | 149.87 | 5.33 | 3.58 | 1.54 | 148.92 | 5.3  | 4.05 | 1.53 | 147.75 |
|   |   | 15 | 1.9  | 1.9  | 0.41 | 14.97  | 2.37 | 2.37 | 0.51 | 21.89  | 2.84 | 2.84 | 0.61 | 29.7   | 3.31 | 3.31 | 0.71 | 38.72  | 3.78 | 3.78 | 0.81 | 48.66  |
|   | 4 | 17 | 2.54 | 1.9  | 0.55 | 24.67  | 2.57 | 2.38 | 0.55 | 25.25  | 2.85 | 2.84 | 0.61 | 29.85  | 3.32 | 3.32 | 0.71 | 38.85  | 3.78 | 3.78 | 0.81 | 48.83  |
|   |   | 19 | -    | -    | -    | -      | 3.99 | 2.39 | 0.86 | 54.14  | 3.97 | 2.86 | 0.86 | 53.6   | 3.95 | 3.33 | 0.85 | 53.22  | 4    | 3.8  | 0.86 | 54.24  |
|   |   | 20 | -    | -    | -    | -      | 4.78 | 2.4  | 1.03 | 74.01  | 4.76 | 2.87 | 1.03 | 73.46  | 4.73 | 3.34 | 1.02 | 72.84  | 4.71 | 3.81 | 1.02 | 72.18  |
|   |   | 15 | 1.65 | 1.65 | 0.28 | 8      | 2.13 | 2.13 | 0.36 | 12.32  | 2.6  | 2.6  | 0.45 | 17.34  | 3.07 | 3.07 | 0.53 | 23.04  | 3.54 | 3.54 | 0.61 | 29.54  |
|   | 5 | 17 | 1.92 | 1.65 | 0.33 | 10.35  | 2.16 | 2.14 | 0.37 | 12.67  | 2.6  | 2.6  | 0.45 | 17.4   | 3.07 | 3.07 | 0.53 | 23.12  | 3.55 | 3.55 | 0.61 | 29.64  |
|   |   | 19 | -    | -    | -    | -      | 3.36 | 2.14 | 0.58 | 26.89  | 3.34 | 2.61 | 0.57 | 26.66  | 3.38 | 3.09 | 0.58 | 27.2   | 3.6  | 3.56 | 0.62 | 30.47  |
|   |   | 20 | -    | -    | -    | -      | 4.15 | 2.15 | 0.72 | 39.07  | 4.13 | 2.62 | 0.71 | 38.68  | 4.11 | 3.09 | 0.71 | 38.31  | 4.1  | 3.56 | 0.71 | 38.27  |
|   |   | 15 | 1.38 | 1.38 | 0.2  | 4.29   | 1.88 | 1.88 | 0.27 | 7.34   | 2.36 | 2.36 | 0.34 | 10.78  | 2.83 | 2.83 | 0.4  | 14.59  | 3.3  | 3.3  | 0.47 | 18.96  |
|   | 6 | 17 | 1.38 | 1.37 | 0.2  | 4.32   | 1.88 | 1.88 | 0.27 | 7.36   | 2.36 | 2.36 | 0.34 | 10.82  | 2.83 | 2.83 | 0.41 | 14.64  | 3.3  | 3.3  | 0.47 | 19.03  |
|   |   | 19 | -    | -    | -    | -      | 2.7  | 1.89 | 0.39 | 13.49  | 2.73 | 2.36 | 0.39 | 13.72  | 2.94 | 2.84 | 0.42 | 15.57  | 3.31 | 3.31 | 0.47 | 19.09  |
|   |   | 20 | -    | -    | -    | -      | 3.49 | 1.9  | 0.5  | 20.88  | 3.47 | 2.37 | 0.5  | 20.65  | 3.46 | 2.84 | 0.5  | 20.63  | 3.57 | 3.32 | 0.51 | 21.68  |

Continued:

| MUC-16-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 1.66                      | 1.66 | 0.48   | 19.3  | 2.13 | 2.13 | 0.61   | 29.87 | 2.6  | 2.6  | 0.75   | 42.47 | 3.07 | 3.07 | 0.88   | 55.78 | 3.54 | 3.54 | 1.03   | 72.59 |
|           |      | 17                | 1.93                      | 1.66 | 0.56   | 25.09 | 2.14 | 2.14 | 0.62   | 30.24 | 2.61 | 2.61 | 0.75   | 42.51 | 3.07 | 3.07 | 0.88   | 55.98 | 3.55 | 3.55 | 1.03   | 72.84 |
|           |      | 19                | -                         | -    | -      | -     | 3.38 | 2.15 | 0.98   | 66.9  | 3.36 | 2.62 | 0.97   | 66.24 | 3.36 | 3.09 | 0.98   | 66.4  | 3.56 | 3.56 | 1.03   | 73.15 |
|           |      | 20                | -                         | -    | -      | -     | 4.16 | 2.16 | 1.21   | 96.56 | 4.13 | 2.62 | 1.19   | 93.91 | 4.1  | 3.09 | 1.18   | 92.91 | 4.08 | 3.56 | 1.18   | 92.27 |
|           | 4    | 15                | 1.42                      | 1.42 | 0.31   | 9.06  | 1.89 | 1.89 | 0.41   | 14.65 | 2.36 | 2.36 | 0.51   | 21.44 | 2.83 | 2.83 | 0.61   | 29.46 | 3.3  | 3.3  | 0.71   | 38.2  |
|           |      | 17                | 1.46                      | 1.43 | 0.31   | 9.49  | 1.89 | 1.89 | 0.41   | 14.7  | 2.37 | 2.37 | 0.51   | 21.52 | 2.84 | 2.84 | 0.61   | 29.56 | 3.3  | 3.3  | 0.71   | 38.23 |
|           |      | 19                | -                         | -    | -      | -     | 2.72 | 1.9  | 0.59   | 27.42 | 2.73 | 2.37 | 0.59   | 27.55 | 2.91 | 2.85 | 0.63   | 30.89 | 3.31 | 3.31 | 0.71   | 38.37 |
|           |      | 20                | -                         | -    | -      | -     | 3.5  | 1.91 | 0.75   | 42.29 | 3.48 | 2.38 | 0.75   | 41.81 | 3.47 | 2.84 | 0.75   | 41.57 | 3.52 | 3.32 | 0.76   | 42.77 |
|           | 5    | 15                | 1.16                      | 1.16 | 0.2    | 4.4   | 1.65 | 1.65 | 0.28   | 7.96  | 2.12 | 2.12 | 0.36   | 12.09 | 2.59 | 2.59 | 0.45   | 17.22 | 3.06 | 3.06 | 0.53   | 22.87 |
|           |      | 17                | 1.18                      | 1.18 | 0.2    | 4.4   | 1.65 | 1.65 | 0.29   | 7.99  | 2.12 | 2.12 | 0.37   | 12.13 | 2.6  | 2.6  | 0.45   | 17.28 | 3.07 | 3.07 | 0.53   | 22.95 |
|           |      | 19                | -                         | -    | -      | -     | 2.07 | 1.66 | 0.36   | 11.73 | 2.23 | 2.14 | 0.38   | 13.25 | 2.61 | 2.6  | 0.45   | 17.35 | 3.07 | 3.07 | 0.53   | 23.03 |
|           |      | 20                | -                         | -    | -      | -     | 2.84 | 1.67 | 0.49   | 20.06 | 2.83 | 2.13 | 0.49   | 19.93 | 2.88 | 2.61 | 0.5    | 20.64 | 3.13 | 3.08 | 0.54   | 23.78 |
|           | 6    | 15                | 0.76                      | 0.76 | 0.11   | 1.26  | 1.39 | 1.39 | 0.2    | 4.37  | 1.87 | 1.87 | 0.27   | 7.18  | 2.35 | 2.35 | 0.34   | 10.52 | 2.82 | 2.82 | 0.41   | 14.48 |
|           |      | 17                | 0.76                      | 0.76 | 0.11   | 1.27  | 1.4  | 1.4  | 0.2    | 4.38  | 1.88 | 1.88 | 0.27   | 7.2   | 2.35 | 2.35 | 0.34   | 10.56 | 2.83 | 2.83 | 0.41   | 14.53 |
|           |      | 19                | -                         | -    | -      | -     | 1.48 | 1.41 | 0.21   | 4.84  | 1.88 | 1.88 | 0.27   | 7.24  | 2.36 | 2.36 | 0.34   | 10.6  | 2.84 | 2.84 | 0.41   | 14.59 |
|           |      | 20                | -                         | -    | -      | -     | 2.12 | 1.41 | 0.3    | 8.83  | 2.17 | 1.89 | 0.31   | 9.19  | 2.44 | 2.37 | 0.35   | 11.21 | 2.84 | 2.84 | 0.41   | 14.61 |
| 13        | 3    | 15                | 1.18                      | 1.18 | 0.34   | 10.67 | 1.66 | 1.66 | 0.48   | 18.95 | 2.12 | 2.12 | 0.61   | 28.72 | 2.59 | 2.59 | 0.74   | 40.82 | 3.06 | 3.06 | 0.87   | 53.99 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.19 | 1.18 | 0.34 | 10.71 | 1.66 | 1.66 | 0.48 | 19.01 | 2.13 | 2.13 | 0.61 | 28.83 | 2.6  | 2.6  | 0.74 | 40.96 | 3.06 | 3.06 | 0.88 | 54.19 |
|    |   | 19 | -    | -    | -    | -     | 2.07 | 1.66 | 0.59 | 27.46 | 2.2  | 2.14 | 0.63 | 30.62 | 2.6  | 2.6  | 0.75 | 41.11 | 3.07 | 3.07 | 0.88 | 54.4  |
|    |   | 20 | -    | -    | -    | -     | 2.85 | 1.67 | 0.82 | 48.45 | 2.83 | 2.14 | 0.82 | 47.97 | 2.85 | 2.61 | 0.82 | 48.54 | 3.08 | 3.08 | 0.88 | 54.88 |
|    |   | 15 | 0.93 | 0.93 | 0.2  | 4.37  | 1.41 | 1.41 | 0.3  | 8.72  | 1.89 | 1.89 | 0.41 | 14.44 | 2.35 | 2.35 | 0.51 | 21.05 | 2.82 | 2.82 | 0.6  | 28.39 |
|    |   | 17 | 0.93 | 0.93 | 0.2  | 4.38  | 1.41 | 1.41 | 0.3  | 8.75  | 1.89 | 1.89 | 0.41 | 14.49 | 2.36 | 2.36 | 0.51 | 21.12 | 2.82 | 2.82 | 0.61 | 28.49 |
|    |   | 19 | -    | -    | -    | -     | 1.5  | 1.43 | 0.32 | 9.67  | 1.9  | 1.89 | 0.41 | 14.53 | 2.36 | 2.36 | 0.51 | 21.2  | 2.83 | 2.83 | 0.61 | 28.6  |
|    |   | 20 | -    | -    | -    | -     | 2.16 | 1.43 | 0.47 | 18.12 | 2.19 | 1.9  | 0.47 | 18.5  | 2.42 | 2.38 | 0.52 | 22.02 | 2.83 | 2.83 | 0.61 | 28.65 |
|    |   | 15 | 0.57 | 0.57 | 0.1  | 1.05  | 1.16 | 1.16 | 0.2  | 4.29  | 1.64 | 1.64 | 0.28 | 7.7   | 2.12 | 2.12 | 0.36 | 11.81 | 2.59 | 2.59 | 0.45 | 16.76 |
|    |   | 17 | 0.57 | 0.57 | 0.1  | 1.06  | 1.16 | 1.16 | 0.2  | 4.31  | 1.65 | 1.65 | 0.28 | 7.73  | 2.12 | 2.12 | 0.36 | 11.85 | 2.59 | 2.59 | 0.45 | 16.82 |
|    |   | 19 | -    | -    | -    | -     | 1.17 | 1.16 | 0.2  | 4.32  | 1.65 | 1.65 | 0.28 | 7.76  | 2.12 | 2.12 | 0.36 | 11.9  | 2.6  | 2.6  | 0.45 | 16.88 |
|    |   | 20 | -    | -    | -    | -     | 1.44 | 1.17 | 0.25 | 6.16  | 1.71 | 1.66 | 0.29 | 8.23  | 2.13 | 2.12 | 0.36 | 11.92 | 2.6  | 2.6  | 0.45 | 16.92 |
|    |   | 15 | 0.42 | 0.42 | 0.06 | 0.61  | 0.77 | 0.77 | 0.11 | 1.24  | 1.39 | 1.39 | 0.2  | 4.27  | 1.87 | 1.87 | 0.27 | 7.03  | 2.35 | 2.35 | 0.34 | 10.37 |
|    |   | 17 | 0.42 | 0.42 | 0.06 | 0.61  | 0.77 | 0.77 | 0.11 | 1.25  | 1.4  | 1.4  | 0.2  | 4.29  | 1.88 | 1.88 | 0.27 | 7.06  | 2.36 | 2.36 | 0.34 | 10.41 |
|    |   | 19 | -    | -    | -    | -     | 0.77 | 0.77 | 0.11 | 1.25  | 1.4  | 1.4  | 0.2  | 4.31  | 1.88 | 1.88 | 0.27 | 7.08  | 2.36 | 2.36 | 0.34 | 10.45 |
|    |   | 20 | -    | -    | -    | -     | 0.77 | 0.77 | 0.11 | 1.25  | 1.4  | 1.4  | 0.2  | 4.31  | 1.88 | 1.88 | 0.27 | 7.1   | 2.36 | 2.36 | 0.34 | 10.47 |
|    | 6 | 15 | 0.7  | 0.7  | 0.2  | 4.33  | 1.18 | 1.18 | 0.34 | 10.46 | 1.65 | 1.65 | 0.48 | 18.81 | 2.11 | 2.11 | 0.61 | 28.43 | 2.58 | 2.58 | 0.74 | 40.19 |
|    |   | 17 | 0.7  | 0.7  | 0.2  | 4.35  | 1.18 | 1.18 | 0.34 | 10.49 | 1.65 | 1.65 | 0.48 | 18.87 | 2.12 | 2.12 | 0.61 | 28.52 | 2.59 | 2.59 | 0.74 | 40.32 |
|    |   | 19 | -    | -    | -    | -     | 1.18 | 1.17 | 0.34 | 10.52 | 1.66 | 1.66 | 0.48 | 18.95 | 2.12 | 2.12 | 0.61 | 28.63 | 2.59 | 2.59 | 0.75 | 40.48 |
|    |   | 20 | -    | -    | -    | -     | 1.48 | 1.19 | 0.43 | 15.52 | 1.69 | 1.68 | 0.49 | 19.54 | 2.12 | 2.12 | 0.61 | 28.7  | 2.59 | 2.59 | 0.75 | 40.56 |
|    | 4 | 15 | 0.39 | 0.39 | 0.08 | 0.85  | 0.93 | 0.93 | 0.2  | 4.31  | 1.42 | 1.42 | 0.31 | 8.78  | 1.88 | 1.88 | 0.41 | 14.28 | 2.34 | 2.34 | 0.51 | 20.59 |
|    |   | 17 | 0.39 | 0.39 | 0.08 | 0.86  | 0.93 | 0.93 | 0.2  | 4.32  | 1.42 | 1.42 | 0.31 | 8.81  | 1.89 | 1.89 | 0.41 | 14.33 | 2.35 | 2.35 | 0.51 | 20.66 |
|    |   | 19 | -    | -    | -    | -     | 0.94 | 0.94 | 0.2  | 4.34  | 1.42 | 1.42 | 0.31 | 8.85  | 1.89 | 1.89 | 0.41 | 14.38 | 2.35 | 2.35 | 0.51 | 20.74 |
|    |   | 20 | -    | -    | -    | -     | 0.95 | 0.94 | 0.2  | 4.43  | 1.42 | 1.42 | 0.31 | 8.86  | 1.89 | 1.89 | 0.41 | 14.41 | 2.36 | 2.36 | 0.51 | 20.78 |
|    | 5 | 15 | 0.23 | 0.23 | 0.04 | 0.39  | 0.58 | 0.58 | 0.1  | 1.05  | 1.17 | 1.17 | 0.2  | 4.32  | 1.64 | 1.64 | 0.28 | 7.69  | 2.11 | 2.11 | 0.37 | 11.78 |
|    |   | 17 | 0.23 | 0.23 | 0.04 | 0.39  | 0.58 | 0.58 | 0.1  | 1.05  | 1.17 | 1.17 | 0.2  | 4.34  | 1.65 | 1.65 | 0.29 | 7.72  | 2.12 | 2.12 | 0.37 | 11.82 |
|    |   | 19 | -    | -    | -    | -     | 0.58 | 0.58 | 0.1  | 1.05  | 1.17 | 1.17 | 0.2  | 4.35  | 1.65 | 1.65 | 0.29 | 7.75  | 2.12 | 2.12 | 0.37 | 11.86 |
|    |   | 20 | -    | -    | -    | -     | 0.58 | 0.58 | 0.1  | 1.05  | 1.17 | 1.17 | 0.2  | 4.36  | 1.65 | 1.65 | 0.29 | 7.77  | 2.12 | 2.12 | 0.37 | 11.89 |
|    | 6 | 15 | -    | -    | -    | -     | 0.41 | 0.41 | 0.06 | 0.58  | 0.79 | 0.79 | 0.11 | 1.32  | 1.4  | 1.4  | 0.2  | 4.27  | 1.87 | 1.87 | 0.27 | 6.93  |
|    |   | 17 | -    | -    | -    | -     | 0.42 | 0.42 | 0.06 | 0.58  | 0.8  | 0.8  | 0.11 | 1.32  | 1.4  | 1.4  | 0.2  | 4.29  | 1.87 | 1.87 | 0.27 | 6.95  |
|    |   | 19 | -    | -    | -    | -     | 0.42 | 0.42 | 0.06 | 0.59  | 0.8  | 0.8  | 0.12 | 1.33  | 1.4  | 1.4  | 0.2  | 4.31  | 1.88 | 1.88 | 0.27 | 6.98  |
|    |   | 20 | -    | -    | -    | -     | 0.42 | 0.42 | 0.06 | 0.59  | 0.8  | 0.8  | 0.12 | 1.33  | 1.41 | 1.41 | 0.2  | 4.32  | 1.88 | 1.88 | 0.27 | 7     |

## MUC-19-W9

| EWT  | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |       |      |        |        |       |      |        |        |       |      |        |        |       |      |        |        |
|------|------|-------------------|---------------------------|------|--------|-------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|
|      |      |                   | 21                        |      |        |       | 23    |      |        |        | 25    |      |        |        | 27    |      |        |        | 29    |      |        |        |
|      |      |                   | TC                        | SC   | WF     | WPD   | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    |
| [°C] | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  |
| 5    | 3    | 15                | 5.58                      | 4.38 | 1.61   | 85.78 | 5.55  | 5.05 | 1.6    | 84.97  | 5.72  | 5.71 | 1.64   | 88.46  | 6.39  | 6.39 | 1.84   | 108.36 | 7.05  | 7.05 | 2.04   | 129.65 |
|      |      | 17                | 7.51                      | 4.39 | 2.17   | 144.2 | 7.49  | 5.07 | 2.17   | 144.24 | 7.46  | 5.73 | 2.15   | 141.88 | 7.43  | 6.4  | 2.16   | 143.1  | 7.41  | 7.06 | 2.15   | 141.24 |
|      |      | 19                | -                         | -    | -      | -     | 9.57  | 5.08 | 2.76   | 219.16 | 9.54  | 5.76 | 2.75   | 218.02 | 9.52  | 6.43 | 2.74   | 216.94 | 9.49  | 7.09 | 2.73   | 215.74 |
|      |      | 20                | -                         | -    | -      | -     | 10.69 | 5.09 | 3.08   | 265.95 | 10.66 | 5.77 | 3.07   | 264.64 | 10.63 | 6.44 | 3.06   | 263.24 | 10.59 | 7.11 | 3.05   | 261.9  |
|      | 4    | 15                | 4.8                       | 4.02 | 1.03   | 39.19 | 4.84  | 4.69 | 1.04   | 39.88  | 5.36  | 5.36 | 1.15   | 47.44  | 6.03  | 6.03 | 1.3    | 58.51  | 6.69  | 6.69 | 1.44   | 69.83  |
|      |      | 17                | 6.73                      | 4.03 | 1.45   | 70.61 | 6.71  | 4.7  | 1.44   | 70.18  | 6.68  | 5.37 | 1.43   | 69.63  | 6.65  | 6.03 | 1.43   | 69.07  | 6.79  | 6.71 | 1.47   | 72.36  |
|      |      | 19                | -                         | -    | -      | -     | 8.81  | 4.73 | 1.91   | 114.21 | 8.79  | 5.41 | 1.9    | 113.84 | 8.76  | 6.07 | 1.9    | 113.37 | 8.72  | 6.73 | 1.88   | 111.3  |
|      |      | 20                | -                         | -    | -      | -     | 9.92  | 4.74 | 2.15   | 140.91 | 9.88  | 5.41 | 2.13   | 139.15 | 9.85  | 6.08 | 2.13   | 138.42 | 9.83  | 6.75 | 2.12   | 137.72 |
|      | 5    | 15                | 4.02                      | 3.66 | 0.69   | 19.78 | 4.34  | 4.33 | 0.74   | 22.36  | 5.01  | 5.01 | 0.86   | 28.8   | 5.68  | 5.68 | 0.98   | 35.72  | 6.33  | 6.33 | 1.09   | 42.87  |
|      |      | 17                | 5.95                      | 3.68 | 1.03   | 38.77 | 5.92  | 4.35 | 1.02   | 38.44  | 5.89  | 5.02 | 1.02   | 38.09  | 5.94  | 5.69 | 1.02   | 38.66  | 6.35  | 6.34 | 1.09   | 42.99  |
|      |      | 19                | -                         | -    | -      | -     | 8.01  | 4.37 | 1.38   | 64.72  | 7.98  | 5.04 | 1.37   | 63.97  | 7.95  | 5.71 | 1.37   | 63.6   | 7.92  | 6.37 | 1.36   | 63.13  |
|      |      | 20                | -                         | -    | -      | -     | 9.12  | 4.38 | 1.57   | 81.07  | 9.09  | 5.06 | 1.57   | 80.69  | 9.06  | 5.72 | 1.56   | 80.24  | 9.03  | 6.39 | 1.56   | 79.79  |
|      | 6    | 15                | 3.38                      | 3.31 | 0.48   | 10.71 | 3.98  | 3.98 | 0.57   | 14.15  | 4.65  | 4.65 | 0.66   | 18.3   | 5.32  | 5.32 | 0.76   | 23.05  | 5.99  | 5.99 | 0.86   | 28.23  |
|      |      | 17                | 5.11                      | 3.32 | 0.73   | 21.52 | 5.08  | 3.99 | 0.73   | 21.27  | 5.09  | 4.66 | 0.73   | 21.39  | 5.38  | 5.33 | 0.77   | 23.52  | 6     | 6    | 0.86   | 28.31  |
|      |      | 19                | -                         | -    | -      | -     | 7.18  | 4.01 | 1.03   | 38.64  | 7.16  | 4.69 | 1.02   | 38.4   | 7.12  | 5.35 | 1.02   | 38.1   | 7.09  | 6.01 | 1.01   | 37.78  |
|      |      | 20                | -                         | -    | -      | -     | 8.3   | 4.03 | 1.19   | 49.98  | 8.28  | 4.7  | 1.19   | 49.7   | 8.25  | 5.37 | 1.18   | 49.41  | 8.22  | 6.03 | 1.18   | 49.1   |
| 7    | 3    | 15                | 4.06                      | 3.68 | 1.17   | 48.14 | 4.36  | 4.35 | 1.26   | 54.83  | 5.03  | 5.03 | 1.46   | 70.91  | 5.7   | 5.7  | 1.64   | 87.16  | 6.36  | 6.36 | 1.83   | 105.74 |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 |   | 17 | 6.01 | 3.71 | 1.75 | 97.03 | 5.99 | 4.38 | 1.74 | 96.36  | 5.94 | 5.04 | 1.71 | 93.68  | 5.96 | 5.71 | 1.73 | 95.43  | 6.37 | 6.37 | 1.84 | 106.08 |
|   |   | 19 | -    | -    | -    | -     | 8.07 | 4.4  | 2.35 | 163.37 | 8.05 | 5.07 | 2.34 | 162.5  | 8.02 | 5.74 | 2.34 | 161.65 | 7.99 | 6.4  | 2.33 | 160.61 |
|   |   | 20 | -    | -    | -    | -     | 9.18 | 4.41 | 2.67 | 204.59 | 9.15 | 5.08 | 2.67 | 203.47 | 9.12 | 5.75 | 2.66 | 202.36 | 9.09 | 6.41 | 2.65 | 201.23 |
|   |   | 15 | 3.41 | 3.34 | 0.73 | 21.54 | 4.01 | 4.01 | 0.86 | 28.42  | 4.68 | 4.68 | 1.01 | 37.09  | 5.35 | 5.35 | 1.16 | 47.25  | 6.01 | 6.01 | 1.29 | 57.39  |
|   | 4 | 17 | 5.2  | 3.35 | 1.12 | 44.94 | 5.16 | 4.02 | 1.12 | 44.45  | 5.15 | 4.69 | 1.11 | 44.28  | 5.39 | 5.36 | 1.17 | 47.92  | 6.02 | 6.02 | 1.3  | 57.57  |
|   |   | 19 | -    | -    | -    | -     | 7.25 | 4.04 | 1.57 | 79.98  | 7.22 | 4.71 | 1.56 | 79.46  | 7.2  | 5.38 | 1.56 | 78.9   | 7.16 | 6.04 | 1.55 | 78.16  |
|   |   | 20 | -    | -    | -    | -     | 8.35 | 4.05 | 1.8  | 101.88 | 8.32 | 4.72 | 1.79 | 101.25 | 8.29 | 5.38 | 1.79 | 100.63 | 8.26 | 6.05 | 1.78 | 100.03 |
|   |   | 15 | 2.98 | 2.97 | 0.51 | 11.62 | 3.66 | 3.66 | 0.63 | 16.47  | 4.33 | 4.33 | 0.74 | 21.97  | 5    | 5    | 0.86 | 28.38  | 5.66 | 5.66 | 0.97 | 34.86  |
|   | 5 | 17 | 4.33 | 2.99 | 0.74 | 21.99 | 4.31 | 3.66 | 0.74 | 21.82  | 4.48 | 4.34 | 0.77 | 23.27  | 5.01 | 5.01 | 0.86 | 28.46  | 5.67 | 5.67 | 0.98 | 34.97  |
|   |   | 19 | -    | -    | -    | -     | 6.42 | 3.69 | 1.11 | 43.67  | 6.39 | 4.36 | 1.1  | 43.34  | 5.6  | 4.62 | 0.96 | 50.7   | 6.34 | 5.69 | 1.1  | 42.76  |
|   |   | 20 | -    | -    | -    | -     | 7.5  | 3.69 | 1.29 | 56.8   | 7.49 | 4.37 | 1.29 | 57.05  | 7.46 | 5.04 | 1.29 | 56.76  | 7.43 | 5.7  | 1.28 | 56.28  |
|   |   | 15 | 2.62 | 2.62 | 0.38 | 6.84  | 3.31 | 3.31 | 0.47 | 10.15  | 3.98 | 3.98 | 0.57 | 13.85  | 4.65 | 4.65 | 0.67 | 18.22  | 5.32 | 5.32 | 0.76 | 22.9   |
|   | 6 | 17 | 3.44 | 2.63 | 0.49 | 10.86 | 3.55 | 3.32 | 0.51 | 11.42  | 3.99 | 3.99 | 0.57 | 13.93  | 4.66 | 4.66 | 0.67 | 18.28  | 5.33 | 5.33 | 0.77 | 22.97  |
|   |   | 19 | -    | -    | -    | -     | 5.54 | 3.34 | 0.8  | 24.57  | 5.51 | 4    | 0.79 | 24.3   | 5.49 | 4.67 | 0.79 | 24.16  | 5.62 | 5.34 | 0.81 | 25.15  |
|   |   | 20 | -    | -    | -    | -     | 6.64 | 3.34 | 0.95 | 33.28  | 6.61 | 4.01 | 0.95 | 33.05  | 6.57 | 4.68 | 0.94 | 32.74  | 6.54 | 5.34 | 0.94 | 32.45  |
|   |   | 15 | 3.02 | 3.01 | 0.87 | 28.51 | 3.68 | 3.68 | 1.05 | 39.72  | 4.35 | 4.35 | 1.26 | 53.83  | 5.01 | 5.01 | 1.44 | 68.04  | 5.68 | 5.68 | 1.64 | 86.05  |
| 9 | 3 | 17 | 4.4  | 3.02 | 1.27 | 54.95 | 4.37 | 3.69 | 1.26 | 54.31  | 4.46 | 4.36 | 1.29 | 56.21  | 5.02 | 5.02 | 1.44 | 68.25  | 5.69 | 5.69 | 1.65 | 86.32  |
|   |   | 19 | -    | -    | -    | -     | 6.45 | 3.7  | 1.86 | 106.27 | 6.42 | 4.37 | 1.85 | 105.52 | 6.39 | 5.04 | 1.84 | 104.72 | 6.36 | 5.7  | 1.84 | 104.72 |
|   |   | 20 | -    | -    | -    | -     | 7.55 | 3.71 | 2.18 | 141.05 | 7.52 | 4.38 | 2.17 | 140.15 | 7.5  | 5.05 | 2.17 | 139.3  | 7.47 | 5.71 | 2.16 | 138.26 |
|   |   | 15 | 2.66 | 2.66 | 0.57 | 13.82 | 3.34 | 3.34 | 0.72 | 20.55  | 4    | 4    | 0.86 | 27.85  | 4.67 | 4.67 | 1    | 36.24  | 5.33 | 5.33 | 1.15 | 46.16  |
|   | 4 | 17 | 3.52 | 2.67 | 0.76 | 22.42 | 3.58 | 3.35 | 0.77 | 23.17  | 4.01 | 4    | 0.86 | 27.84  | 4.67 | 4.67 | 1    | 36.35  | 5.34 | 5.34 | 1.15 | 46.31  |
|   |   | 19 | -    | -    | -    | -     | 5.58 | 3.35 | 1.2  | 49.5   | 5.55 | 4.02 | 1.19 | 48.92  | 5.52 | 4.68 | 1.19 | 48.48  | 5.59 | 5.35 | 1.2  | 49.55  |
|   |   | 20 | -    | -    | -    | -     | 6.68 | 3.36 | 1.44 | 67.75  | 6.66 | 4.03 | 1.43 | 67.28  | 6.63 | 4.7  | 1.43 | 66.74  | 6.59 | 5.36 | 1.42 | 66.06  |
|   |   | 15 | 2.3  | 2.3  | 0.4  | 7.39  | 2.99 | 2.99 | 0.51 | 11.44  | 3.66 | 3.66 | 0.63 | 16.16  | 4.32 | 4.32 | 0.74 | 21.53  | 4.99 | 4.99 | 0.86 | 27.61  |
|   | 5 | 17 | 2.64 | 2.31 | 0.45 | 9.28  | 3.02 | 3    | 0.52 | 11.65  | 3.66 | 3.66 | 0.63 | 16.21  | 4.33 | 4.33 | 0.74 | 21.59  | 5    | 5    | 0.86 | 27.71  |
|   |   | 19 | -    | -    | -    | -     | 4.68 | 3    | 0.8  | 24.7   | 4.65 | 3.67 | 0.8  | 24.43  | 4.7  | 4.34 | 0.81 | 24.9   | 5.05 | 5.01 | 0.87 | 28.25  |
|   |   | 20 | -    | -    | -    | -     | 5.8  | 3.02 | 1    | 35.86  | 5.77 | 3.68 | 0.99 | 35.52  | 5.73 | 4.35 | 0.99 | 35.14  | 5.72 | 5.01 | 0.99 | 35.02  |
|   |   | 15 | 1.92 | 1.92 | 0.28 | 3.97  | 2.63 | 2.63 | 0.38 | 6.78   | 3.31 | 3.31 | 0.48 | 10.01  | 3.98 | 3.98 | 0.57 | 13.6   | 4.64 | 4.64 | 0.66 | 17.71  |
|   | 6 | 17 | 1.92 | 1.9  | 0.28 | 3.97  | 2.64 | 2.64 | 0.38 | 6.8    | 3.32 | 3.32 | 0.48 | 10.04  | 3.98 | 3.98 | 0.57 | 13.64  | 4.65 | 4.65 | 0.67 | 17.76  |
|   |   | 19 | -    | -    | -    | -     | 3.75 | 2.65 | 0.54 | 12.38  | 3.79 | 3.32 | 0.54 | 12.6   | 4.1  | 4    | 0.59 | 14.29  | 4.66 | 4.66 | 0.67 | 17.82  |
|   |   | 20 | -    | -    | -    | -     | 4.86 | 2.66 | 0.7  | 19.15  | 4.82 | 3.33 | 0.69 | 18.9   | 4.81 | 3.99 | 0.69 | 18.84  | 4.97 | 4.67 | 0.71 | 19.89  |

Continued:

| MUC-19-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 2.34                      | 2.34 | 0.67   | 18.01 | 3.01 | 3.01 | 0.87   | 27.96 | 3.67 | 3.67 | 1.06   | 39.83 | 4.34 | 4.34 | 1.26   | 53.17 | 5    | 5    | 1.45   | 68.23 |
|           |      | 17                | 2.69                      | 2.34 | 0.77   | 23    | 3.02 | 3.02 | 0.87   | 28.16 | 3.68 | 3.68 | 1.07   | 39.96 | 4.35 | 4.35 | 1.26   | 53.34 | 5.01 | 5.01 | 1.45   | 68.44 |
|           |      | 19                | -                         | -    | -      | -     | 4.73 | 3.02 | 1.36   | 61.06 | 4.69 | 3.68 | 1.35   | 60.26 | 4.7  | 4.35 | 1.35   | 60.39 | 5.03 | 5.03 | 1.46   | 68.87 |
|           |      | 20                | -                         | -    | -      | -     | 5.83 | 3.02 | 1.69   | 88.88 | 5.82 | 3.7  | 1.69   | 88.88 | 5.79 | 4.37 | 1.68   | 88.31 | 5.76 | 5.03 | 1.67   | 87.47 |
|           | 4    | 15                | 1.99                      | 1.99 | 0.43   | 8.4   | 2.66 | 2.66 | 0.57   | 13.67 | 3.33 | 3.33 | 0.72   | 20.05 | 3.99 | 3.99 | 0.86   | 27.45 | 4.66 | 4.66 | 1.01   | 36.18 |
|           |      | 17                | 2.03                      | 2.01 | 0.44   | 8.68  | 2.67 | 2.67 | 0.57   | 13.71 | 3.33 | 3.33 | 0.72   | 20.12 | 4    | 4    | 0.86   | 27.54 | 4.67 | 4.67 | 1.01   | 36.3  |
|           |      | 19                | -                         | -    | -      | -     | 3.8  | 2.67 | 0.82   | 25.21 | 3.81 | 3.34 | 0.82   | 25.26 | 4.08 | 4.02 | 0.88   | 28.54 | 4.68 | 4.68 | 1.01   | 36.42 |
|           |      | 20                | -                         | -    | -      | -     | 4.91 | 2.68 | 1.06   | 39.22 | 4.87 | 3.34 | 1.05   | 38.72 | 4.85 | 4.01 | 1.05   | 38.4  | 4.93 | 4.68 | 1.06   | 39.56 |
|           | 5    | 15                | 1.62                      | 1.62 | 0.28   | 4.04  | 2.32 | 2.32 | 0.4    | 7.38  | 2.99 | 2.99 | 0.52   | 11.4  | 3.66 | 3.66 | 0.63   | 16.1  | 4.32 | 4.32 | 0.75   | 21.42 |
|           |      | 17                | 1.62                      | 1.62 | 0.28   | 4.06  | 2.32 | 2.32 | 0.4    | 7.41  | 2.99 | 2.99 | 0.52   | 11.44 | 3.66 | 3.66 | 0.63   | 16.15 | 4.33 | 4.33 | 0.75   | 21.49 |
|           |      | 19                | -                         | -    | -      | -     | 2.86 | 2.32 | 0.49   | 10.6  | 3.11 | 3    | 0.54   | 12.12 | 3.67 | 3.66 | 0.63   | 16.2  | 4.33 | 4.33 | 0.75   | 21.57 |
|           |      | 20                | -                         | -    | -      | -     | 3.96 | 2.34 | 0.68   | 18.42 | 3.93 | 3    | 0.68   | 18.24 | 4.02 | 3.67 | 0.69   | 18.91 | 4.39 | 4.35 | 0.76   | 22.04 |
|           | 6    | 15                | 0.96                      | 0.96 | 0.14   | 0.99  | 1.94 | 1.94 | 0.28   | 4.02  | 2.63 | 2.63 | 0.38   | 6.65  | 3.3  | 3.3  | 0.47   | 9.8   | 3.97 | 3.97 | 0.57   | 13.41 |
|           |      | 17                | 0.96                      | 0.96 | 0.14   | 0.99  | 1.94 | 1.94 | 0.28   | 4.03  | 2.63 | 2.63 | 0.38   | 6.68  | 3.31 | 3.31 | 0.47   | 9.83  | 3.98 | 3.98 | 0.57   | 13.45 |
|           |      | 19                | -                         | -    | -      | -     | 2.03 | 1.97 | 0.29   | 4.33  | 2.64 | 2.63 | 0.38   | 6.69  | 3.32 | 3.32 | 0.48   | 9.87  | 3.99 | 3.99 | 0.57   | 13.5  |
|           |      | 20                | -                         | -    | -      | -     | 2.91 | 1.97 | 0.42   | 7.9   | 2.99 | 2.65 | 0.43   | 8.26  | 3.4  | 3.33 | 0.49   | 10.26 | 3.99 | 3.99 | 0.57   | 13.52 |
| 13        | 3    | 15                | 1.67                      | 1.67 | 0.48   | 9.94  | 2.34 | 2.34 | 0.67   | 17.73 | 2.99 | 2.99 | 0.85   | 26.87 | 3.66 | 3.66 | 1.05   | 38.04 | 4.32 | 4.32 | 1.23   | 50.76 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.67 | 1.67 | 0.48 | 9.97 | 2.34 | 2.34 | 0.67 | 17.79 | 3    | 3    | 0.86 | 26.95 | 3.66 | 3.66 | 1.05 | 38.16 | 4.33 | 4.33 | 1.24 | 50.92 |
|    |   | 19 | -    | -    | -    | -    | 2.91 | 2.34 | 0.84 | 25.84 | 3.08 | 3.02 | 0.88 | 28.21 | 3.67 | 3.67 | 1.05 | 38.29 | 4.33 | 4.33 | 1.24 | 51.11 |
|    |   | 20 | -    | -    | -    | -    | 4.01 | 2.35 | 1.15 | 45.12 | 3.98 | 3.02 | 1.14 | 44.5  | 4    | 3.68 | 1.15 | 44.97 | 4.35 | 4.34 | 1.24 | 51.34 |
|    |   | 15 | 1.3  | 1.3  | 0.28 | 4.01 | 1.98 | 1.98 | 0.43 | 8.11  | 2.66 | 2.66 | 0.57 | 13.31 | 3.32 | 3.32 | 0.72 | 19.74 | 3.98 | 3.98 | 0.85 | 26.66 |
|    |   | 17 | 1.3  | 1.3  | 0.28 | 4.03 | 1.99 | 1.99 | 0.43 | 8.13  | 2.66 | 2.66 | 0.57 | 13.36 | 3.33 | 3.33 | 0.72 | 19.8  | 3.98 | 3.98 | 0.85 | 26.71 |
|    |   | 19 | -    | -    | -    | -    | 2.09 | 2.01 | 0.45 | 8.83  | 2.67 | 2.66 | 0.57 | 13.39 | 3.33 | 3.33 | 0.72 | 19.87 | 3.99 | 3.99 | 0.86 | 26.8  |
|    |   | 20 | -    | -    | -    | -    | 3.01 | 2    | 0.65 | 16.6  | 3.04 | 2.67 | 0.66 | 16.93 | 3.39 | 3.35 | 0.73 | 20.41 | 3.99 | 3.99 | 0.86 | 26.85 |
|    |   | 15 | 0.72 | 0.72 | 0.12 | 0.84 | 1.62 | 1.62 | 0.28 | 3.95  | 2.31 | 2.31 | 0.4  | 7.16  | 2.98 | 2.98 | 0.51 | 11.04 | 3.65 | 3.65 | 0.63 | 15.71 |
|    |   | 17 | 0.72 | 0.72 | 0.12 | 0.84 | 1.63 | 1.63 | 0.28 | 3.96  | 2.32 | 2.32 | 0.4  | 7.18  | 2.99 | 2.99 | 0.51 | 11.08 | 3.66 | 3.66 | 0.63 | 15.76 |
|    |   | 19 | -    | -    | -    | -    | 1.63 | 1.62 | 0.28 | 3.97  | 2.33 | 2.33 | 0.4  | 7.21  | 2.99 | 2.99 | 0.51 | 11.11 | 3.66 | 3.66 | 0.63 | 15.82 |
|    |   | 20 | -    | -    | -    | -    | 1.96 | 1.64 | 0.34 | 5.43  | 2.38 | 2.33 | 0.41 | 7.52  | 3    | 2.99 | 0.51 | 11.13 | 3.67 | 3.67 | 0.63 | 15.85 |
|    |   | 15 | 0.53 | 0.53 | 0.08 | 0.5  | 0.96 | 0.96 | 0.14 | 0.96  | 1.95 | 1.95 | 0.28 | 3.94  | 2.64 | 2.64 | 0.38 | 6.54  | 3.31 | 3.31 | 0.48 | 9.7   |
|    |   | 17 | 0.53 | 0.53 | 0.08 | 0.5  | 0.96 | 0.96 | 0.14 | 0.96  | 1.95 | 1.95 | 0.28 | 3.95  | 2.64 | 2.64 | 0.38 | 6.56  | 3.32 | 3.32 | 0.48 | 9.73  |
|    |   | 19 | -    | -    | -    | -    | 0.97 | 0.97 | 0.14 | 0.96  | 1.96 | 1.96 | 0.28 | 3.97  | 2.65 | 2.65 | 0.38 | 6.59  | 3.32 | 3.32 | 0.48 | 9.76  |
|    |   | 20 | -    | -    | -    | -    | 0.97 | 0.97 | 0.14 | 0.97  | 1.96 | 1.96 | 0.28 | 3.97  | 2.65 | 2.65 | 0.38 | 6.6   | 3.33 | 3.33 | 0.48 | 9.78  |
|    | 5 | 15 | 0.98 | 0.98 | 0.28 | 3.99 | 1.66 | 1.66 | 0.48 | 9.76  | 2.33 | 2.33 | 0.68 | 17.65 | 2.99 | 2.99 | 0.86 | 26.94 | 3.65 | 3.65 | 1.05 | 37.84 |
|    |   | 17 | 0.98 | 0.98 | 0.28 | 4    | 1.66 | 1.66 | 0.48 | 9.79  | 2.34 | 2.34 | 0.68 | 17.7  | 2.99 | 2.99 | 0.86 | 27.02 | 3.66 | 3.66 | 1.05 | 37.96 |
|    |   | 19 | -    | -    | -    | -    | 1.67 | 1.66 | 0.48 | 9.81  | 2.34 | 2.34 | 0.68 | 17.77 | 3    | 3    | 0.87 | 27.11 | 3.66 | 3.66 | 1.05 | 38.08 |
|    |   | 20 | -    | -    | -    | -    | 2.05 | 1.67 | 0.59 | 14.19 | 2.37 | 2.36 | 0.69 | 18.15 | 3    | 3    | 0.87 | 27.16 | 3.66 | 3.66 | 1.06 | 38.15 |
|    | 6 | 15 | 0.5  | 0.5  | 0.11 | 0.69 | 1.31 | 1.31 | 0.28 | 3.98  | 2    | 2    | 0.43 | 8.21  | 2.66 | 2.66 | 0.58 | 13.39 | 3.31 | 3.31 | 0.71 | 19.35 |
|    |   | 17 | 0.5  | 0.5  | 0.11 | 0.69 | 1.31 | 1.31 | 0.28 | 3.99  | 2    | 2    | 0.43 | 8.23  | 2.66 | 2.66 | 0.58 | 13.43 | 3.32 | 3.32 | 0.72 | 19.41 |
|    |   | 19 | -    | -    | -    | -    | 1.31 | 1.31 | 0.28 | 4.01  | 2    | 2    | 0.43 | 8.26  | 2.67 | 2.67 | 0.58 | 13.48 | 3.32 | 3.32 | 0.72 | 19.47 |
|    |   | 20 | -    | -    | -    | -    | 1.32 | 1.3  | 0.28 | 4.04  | 2.01 | 2    | 0.43 | 8.27  | 2.67 | 2.67 | 0.58 | 13.51 | 3.33 | 3.33 | 0.72 | 19.51 |
|    | 7 | 15 | 0.3  | 0.3  | 0.05 | 0.33 | 0.73 | 0.73 | 0.13 | 0.83  | 1.64 | 1.64 | 0.28 | 4     | 2.32 | 2.32 | 0.4  | 7.19  | 2.98 | 2.98 | 0.52 | 11.04 |
|    |   | 17 | 0.3  | 0.3  | 0.05 | 0.33 | 0.73 | 0.73 | 0.13 | 0.83  | 1.64 | 1.64 | 0.28 | 4.01  | 2.32 | 2.32 | 0.4  | 7.21  | 2.99 | 2.99 | 0.52 | 11.08 |
|    |   | 19 | -    | -    | -    | -    | 0.73 | 0.73 | 0.13 | 0.83  | 1.65 | 1.65 | 0.28 | 4.02  | 2.33 | 2.33 | 0.4  | 7.24  | 2.99 | 2.99 | 0.52 | 11.12 |
|    |   | 20 | -    | -    | -    | -    | 0.73 | 0.73 | 0.13 | 0.83  | 1.64 | 1.64 | 0.28 | 4.03  | 2.33 | 2.33 | 0.4  | 7.25  | 3    | 3    | 0.52 | 11.14 |
|    | 8 | 15 | -    | -    | -    | -    | 0.53 | 0.53 | 0.08 | 0.48  | 1    | 1    | 0.14 | 1     | 1.96 | 1.96 | 0.28 | 3.96  | 2.64 | 2.64 | 0.38 | 6.54  |
|    |   | 17 | -    | -    | -    | -    | 0.53 | 0.53 | 0.08 | 0.48  | 1    | 1    | 0.14 | 1.01  | 1.96 | 1.96 | 0.28 | 3.98  | 2.64 | 2.64 | 0.38 | 6.56  |
|    |   | 19 | -    | -    | -    | -    | 0.54 | 0.54 | 0.08 | 0.48  | 1    | 1    | 0.14 | 1.01  | 1.97 | 1.97 | 0.28 | 3.99  | 2.65 | 2.65 | 0.38 | 6.59  |
|    |   | 20 | -    | -    | -    | -    | 0.54 | 0.54 | 0.08 | 0.48  | 1    | 1    | 0.14 | 1.02  | 1.97 | 1.97 | 0.28 | 4     | 2.65 | 2.65 | 0.38 | 6.6   |

## MUC-24-W9

| EWT  | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |       |      |        |        |       |      |        |        |       |      |        |        |       |      |        |        |
|------|------|-------------------|---------------------------|------|--------|-------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|
|      |      |                   | 21                        |      |        |       | 23    |      |        |        | 25    |      |        |        | 27    |      |        |        | 29    |      |        |        |
|      |      |                   | TC                        | SC   | WF     | WPD   | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    |
| [°C] | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  |
| 5    | 3    | 15                | 6.72                      | 5.29 | 1.92   | 57.71 | 6.69  | 6.1  | 1.92   | 57.23  | 6.92  | 6.91 | 2      | 61.48  | 7.73  | 7.73 | 2.23   | 74.54  | 8.53  | 8.53 | 2.45   | 87.67  |
|      |      | 17                | 9.08                      | 5.32 | 2.61   | 97.66 | 9.05  | 6.13 | 2.6    | 97.08  | 9.02  | 6.94 | 2.59   | 96.51  | 8.98  | 7.75 | 2.58   | 95.73  | 8.95  | 8.55 | 2.57   | 95.21  |
|      |      | 19                | -                         | -    | -      | -     | 11.6  | 6.17 | 3.34   | 150.76 | 11.56 | 6.98 | 3.33   | 149.98 | 11.53 | 7.79 | 3.32   | 149.26 | 11.5  | 8.6  | 3.32   | 148.98 |
|      |      | 20                | -                         | -    | -      | -     | 12.96 | 6.18 | 3.73   | 183    | 12.92 | 7    | 3.72   | 182.06 | 12.88 | 7.81 | 3.71   | 181.19 | 12.84 | 8.62 | 3.7    | 180.21 |
|      | 4    | 15                | 5.78                      | 4.85 | 1.24   | 26.93 | 5.82  | 5.67 | 1.25   | 27.25  | 6.48  | 6.48 | 1.39   | 32.7   | 7.29  | 7.29 | 1.56   | 40.09  | 8.1   | 8.1  | 1.74   | 48.04  |
|      |      | 17                | 8.14                      | 4.88 | 1.75   | 48.49 | 8.11  | 5.69 | 1.74   | 48.18  | 8.07  | 6.5  | 1.73   | 47.76  | 8.03  | 7.31 | 1.72   | 47.4   | 8.16  | 8.12 | 1.75   | 48.74  |
|      |      | 19                | -                         | -    | -      | -     | 10.67 | 5.73 | 2.3    | 78.32  | 10.63 | 6.55 | 2.29   | 77.83  | 10.6  | 7.35 | 2.29   | 77.38  | 10.56 | 8.16 | 2.28   | 76.92  |
|      |      | 20                | -                         | -    | -      | -     | 12.02 | 5.75 | 2.6    | 96.64  | 11.96 | 6.56 | 2.57   | 94.96  | 11.93 | 7.37 | 2.57   | 94.49  | 11.89 | 8.17 | 2.56   | 93.96  |
|      | 5    | 15                | 4.8                       | 4.41 | 0.82   | 13.3  | 5.23  | 5.22 | 0.9    | 15.5   | 6.05  | 6.05 | 1.04   | 19.84  | 6.85  | 6.85 | 1.17   | 24.37  | 7.67  | 7.67 | 1.32   | 29.8   |
|      |      | 17                | 7.16                      | 4.44 | 1.23   | 26.29 | 7.12  | 5.25 | 1.22   | 26.04  | 7.09  | 6.06 | 1.21   | 25.81  | 7.12  | 6.87 | 1.22   | 26.04  | 7.68  | 7.68 | 1.32   | 29.9   |
|      |      | 19                | -                         | -    | -      | -     | 9.66  | 5.28 | 1.66   | 44.08  | 9.63  | 6.09 | 1.65   | 43.83  | 9.6   | 6.9  | 1.65   | 43.55  | 9.55  | 7.7  | 1.64   | 43.22  |
|      |      | 20                | -                         | -    | -      | -     | 11.03 | 5.31 | 1.9    | 55.67  | 10.99 | 6.12 | 1.89   | 55.35  | 10.96 | 6.93 | 1.88   | 55.04  | 10.92 | 7.74 | 1.88   | 54.74  |
|      | 6    | 15                | 3.97                      | 3.97 | 0.57   | 7.1   | 4.79  | 4.79 | 0.69   | 9.72   | 5.61  | 5.61 | 0.8    | 12.7   | 6.42  | 6.42 | 0.92   | 15.99  | 7.22  | 7.22 | 1.03   | 19.43  |
|      |      | 17                | 6.15                      | 4.01 | 0.88   | 14.85 | 6.11  | 4.82 | 0.88   | 14.7   | 6.11  | 5.62 | 0.88   | 14.71  | 6.45  | 6.44 | 0.92   | 16.12  | 7.24  | 7.24 | 1.03   | 19.5   |
|      |      | 19                | -                         | -    | -      | -     | 8.66  | 4.85 | 1.24   | 26.51  | 8.63  | 5.66 | 1.23   | 26.33  | 8.59  | 6.46 | 1.23   | 26.11  | 8.55  | 7.26 | 1.22   | 25.9   |
|      |      | 20                | -                         | -    | -      | -     | 10.03 | 4.87 | 1.44   | 34.32  | 9.99  | 5.69 | 1.43   | 34.12  | 9.96  | 6.49 | 1.43   | 33.93  | 9.92  | 7.3  | 1.42   | 33.69  |
| 7    | 3    | 15                | 4.92                      | 4.46 | 1.42   | 33.59 | 5.27  | 5.26 | 1.52   | 37.93  | 6.08  | 6.08 | 1.74   | 47.92  | 6.89  | 6.89 | 1.99   | 60.07  | 7.7   | 7.7  | 2.23   | 73.41  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |
|---|---|----|------|------|------|-------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|
| 9 |   | 17 | 7.26 | 4.49 | 2.1  | 65.79 | 7.23  | 5.3  | 2.09 | 65.24  | 7.19  | 6.1  | 2.07 | 64.62  | 7.17  | 6.9  | 2.06 | 63.98  | 7.71  | 7.71 | 2.23 | 73.33  |
|   |   | 19 | -    | -    | -    | -     | 9.76  | 5.33 | 2.83 | 110.86 | 9.74  | 6.14 | 2.83 | 110.93 | 9.71  | 6.95 | 2.82 | 110.64 | 9.67  | 7.75 | 2.81 | 109.76 |
|   |   | 20 | -    | -    | -    | -     | 11.09 | 5.33 | 3.2  | 137.7  | 11.09 | 6.17 | 3.24 | 140.28 | 11.03 | 6.96 | 3.2  | 137.27 | 11.02 | 7.78 | 3.22 | 138.77 |
|   |   | 15 | 4.07 | 4.04 | 0.88 | 14.72 | 4.84  | 4.84 | 1.04 | 19.55  | 5.65  | 5.65 | 1.21 | 25.51  | 6.46  | 6.46 | 1.4  | 32.49  | 7.26  | 7.26 | 1.56 | 39.36  |
|   | 4 | 17 | 6.27 | 4.06 | 1.35 | 30.8  | 6.23  | 4.86 | 1.35 | 30.47  | 6.21  | 5.67 | 1.34 | 30.33  | 6.49  | 6.49 | 1.4  | 32.73  | 7.29  | 7.29 | 1.58 | 39.95  |
|   |   | 19 | -    | -    | -    | -     | 8.75  | 4.89 | 1.88 | 54.39  | 8.71  | 5.69 | 1.88 | 54.02  | 8.67  | 6.5  | 1.87 | 53.6   | 8.63  | 7.3  | 1.86 | 53.1   |
|   |   | 20 | -    | -    | -    | -     | 10.1  | 4.91 | 2.18 | 70.24  | 10.07 | 5.72 | 2.18 | 69.82  | 10.03 | 6.52 | 2.17 | 69.4   | 10    | 7.33 | 2.16 | 68.95  |
|   |   | 15 | 3.59 | 3.59 | 0.62 | 8.07  | 4.4   | 4.4  | 0.76 | 11.38  | 5.22  | 5.22 | 0.9  | 15.11  | 6.03  | 6.03 | 1.04 | 19.34  | 6.83  | 6.83 | 1.17 | 23.98  |
|   | 5 | 17 | 5.19 | 3.61 | 0.89 | 14.99 | 5.17  | 4.41 | 0.89 | 14.87  | 5.33  | 5.24 | 0.92 | 15.69  | 6.04  | 6.04 | 1.04 | 19.4   | 6.85  | 6.85 | 1.18 | 24.06  |
|   |   | 19 | -    | -    | -    | -     | 7.74  | 4.46 | 1.34 | 29.91  | 7.7   | 5.27 | 1.33 | 29.66  | 7.35  | 5.87 | 1.27 | 44.1   | 7.64  | 6.88 | 1.32 | 29.25  |
|   |   | 20 | -    | -    | -    | -     | 9.06  | 4.47 | 1.56 | 38.97  | 9.03  | 5.28 | 1.55 | 38.74  | 8.99  | 6.09 | 1.55 | 38.46  | 8.94  | 6.88 | 1.54 | 38.12  |
|   |   | 15 | 3.11 | 3.11 | 0.45 | 4.61  | 3.96  | 3.96 | 0.57 | 6.94   | 4.79  | 4.79 | 0.69 | 9.55   | 5.59  | 5.59 | 0.8  | 12.41  | 6.41  | 6.41 | 0.92 | 15.68  |
|   | 6 | 17 | 4.09 | 3.16 | 0.59 | 7.32  | 4.17  | 3.98 | 0.6  | 7.55   | 4.8   | 4.79 | 0.69 | 9.58   | 5.61  | 5.61 | 0.8  | 12.45  | 6.42  | 6.42 | 0.92 | 15.73  |
|   |   | 19 | -    | -    | -    | -     | 6.65  | 4.02 | 0.95 | 16.7   | 6.61  | 4.83 | 0.95 | 16.52  | 6.58  | 5.63 | 0.94 | 16.42  | 6.7   | 6.45 | 0.96 | 16.91  |
|   |   | 20 | -    | -    | -    | -     | 8.01  | 4.04 | 1.15 | 23.02  | 7.96  | 4.85 | 1.14 | 22.72  | 7.92  | 5.65 | 1.14 | 22.51  | 7.88  | 6.45 | 1.13 | 22.32  |
|   |   | 15 | 3.63 | 3.63 | 1.04 | 19.29 | 4.45  | 4.45 | 1.28 | 27.72  | 5.25  | 5.25 | 1.5  | 36.42  | 6.06  | 6.06 | 1.75 | 47.36  | 6.86  | 6.86 | 1.97 | 58     |
|   | 3 | 17 | 5.29 | 3.65 | 1.51 | 36.88 | 5.26  | 4.45 | 1.5  | 36.5   | 5.34  | 5.27 | 1.53 | 37.52  | 6.08  | 6.08 | 1.75 | 47.52  | 6.87  | 6.87 | 1.97 | 58.18  |
|   |   | 19 | -    | -    | -    | -     | 7.8   | 4.49 | 2.26 | 73.6   | 7.75  | 5.29 | 2.22 | 71.83  | 7.73  | 6.1  | 2.23 | 72.4   | 7.68  | 6.89 | 2.21 | 71     |
|   |   | 20 | -    | -    | -    | -     | 9.12  | 4.49 | 2.62 | 95.72  | 9.09  | 5.3  | 2.61 | 95.16  | 9.06  | 6.11 | 2.6  | 94.51  | 9.02  | 6.92 | 2.6  | 94.31  |
|   |   | 15 | 3.2  | 3.2  | 0.69 | 9.55  | 4.02  | 4.02 | 0.86 | 13.96  | 4.83  | 4.83 | 1.04 | 19.33  | 5.64  | 5.64 | 1.22 | 25.17  | 6.43  | 6.43 | 1.38 | 31.32  |
|   | 4 | 17 | 4.23 | 3.22 | 0.91 | 15.34 | 4.27  | 4.03 | 0.92 | 15.57  | 4.84  | 4.83 | 1.04 | 19.38  | 5.65  | 5.65 | 1.22 | 25.26  | 6.45  | 6.45 | 1.38 | 31.43  |
|   |   | 19 | -    | -    | -    | -     | 6.73  | 4.05 | 1.44 | 33.81  | 6.68  | 4.86 | 1.43 | 33.45  | 6.65  | 5.66 | 1.43 | 33.15  | 6.71  | 6.47 | 1.44 | 33.65  |
|   |   | 20 | -    | -    | -    | -     | 8.08  | 4.07 | 1.74 | 46.71  | 8.05  | 4.88 | 1.74 | 46.64  | 8.01  | 5.69 | 1.73 | 46.22  | 7.97  | 6.49 | 1.72 | 45.79  |
|   |   | 15 | 2.75 | 2.75 | 0.47 | 5.03  | 3.59  | 3.59 | 0.61 | 7.84   | 4.4   | 4.4  | 0.76 | 11.1   | 5.21  | 5.21 | 0.89 | 14.79  | 6.01  | 6.01 | 1.03 | 18.91  |
|   | 5 | 17 | 3.11 | 2.76 | 0.53 | 6.17  | 3.59  | 3.58 | 0.62 | 7.86   | 4.41  | 4.41 | 0.76 | 11.14  | 5.22  | 5.22 | 0.9  | 14.84  | 6.02  | 6.02 | 1.03 | 18.97  |
|   |   | 19 | -    | -    | -    | -     | 5.62  | 3.62 | 0.97 | 16.85  | 5.59  | 4.42 | 0.96 | 16.68  | 5.63  | 5.23 | 0.97 | 16.87  | 6.05  | 6.04 | 1.04 | 19.13  |
|   |   | 20 | -    | -    | -    | -     | 6.97  | 3.64 | 1.2  | 24.37  | 6.93  | 4.44 | 1.19 | 24.13  | 6.89  | 5.25 | 1.18 | 23.88  | 6.87  | 6.05 | 1.18 | 23.78  |
|   |   | 15 | 2    | 2    | 0.29 | 1.76  | 3.13  | 3.13 | 0.45 | 4.6    | 3.97  | 3.97 | 0.57 | 6.84   | 4.79  | 4.79 | 0.69 | 9.39   | 5.59  | 5.59 | 0.8  | 12.26  |
|   | 6 | 17 | 2.01 | 2.01 | 0.29 | 1.77  | 3.14  | 3.14 | 0.45 | 4.62   | 3.98  | 3.98 | 0.57 | 6.86   | 4.8   | 4.8  | 0.69 | 9.42   | 5.61  | 5.61 | 0.8  | 12.3   |
|   |   | 19 | -    | -    | -    | -     | 4.47  | 3.18 | 0.64 | 8.35   | 4.48  | 3.99 | 0.64 | 8.41   | 4.86  | 4.82 | 0.7  | 9.65   | 5.62  | 5.62 | 0.81 | 12.34  |
|   |   | 20 | -    | -    | -    | -     | 5.81  | 3.2  | 0.83 | 13     | 5.77  | 4    | 0.83 | 12.85  | 5.77  | 4.81 | 0.83 | 12.84  | 5.9   | 5.63 | 0.84 | 13.33  |

Continued:

| MUC-24-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 2.81                      | 2.81 | 0.81   | 12.37 | 3.62 | 3.62 | 1.04   | 19.06 | 4.43 | 4.43 | 1.27   | 26.99 | 5.23 | 5.23 | 1.51   | 36.18 | 6.03 | 6.03 | 1.73   | 45.98 |
|           |      | 17                | 3.23                      | 2.82 | 0.93   | 15.66 | 3.63 | 3.61 | 1.04   | 19.11 | 4.44 | 4.44 | 1.28   | 27.09 | 5.25 | 5.25 | 1.51   | 36.3  | 6.04 | 6.04 | 1.74   | 46.14 |
|           |      | 19                | -                         | -    | -      | -     | 5.71 | 3.65 | 1.65   | 42.36 | 5.68 | 4.46 | 1.64   | 41.88 | 5.68 | 5.26 | 1.64   | 41.88 | 6.05 | 6.04 | 1.74   | 46.29 |
|           |      | 20                | -                         | -    | -      | -     | 7.04 | 3.66 | 2.03   | 60.15 | 7    | 4.47 | 2.01   | 59.59 | 6.96 | 5.27 | 2      | 58.95 | 6.92 | 6.07 | 1.99   | 58.51 |
|           | 4    | 15                | 2.38                      | 2.38 | 0.51   | 5.73  | 3.21 | 3.21 | 0.69   | 9.46  | 4.01 | 4.01 | 0.86   | 13.76 | 4.81 | 4.81 | 1.04   | 18.82 | 5.61 | 5.61 | 1.21   | 24.52 |
|           |      | 17                | 2.38                      | 2.36 | 0.51   | 5.74  | 3.21 | 3.21 | 0.69   | 9.5   | 4.01 | 4.01 | 0.86   | 13.8  | 4.82 | 4.82 | 1.04   | 18.88 | 5.63 | 5.63 | 1.21   | 24.61 |
|           |      | 19                | -                         | -    | -      | -     | 4.56 | 3.22 | 0.98   | 17.16 | 4.56 | 4.02 | 0.98   | 17.18 | 4.86 | 4.84 | 1.05   | 19.21 | 5.64 | 5.64 | 1.21   | 24.69 |
|           |      | 20                | -                         | -    | -      | -     | 5.91 | 3.24 | 1.27   | 26.78 | 5.87 | 4.04 | 1.26   | 26.46 | 5.85 | 4.85 | 1.26   | 26.44 | 5.91 | 5.66 | 1.27   | 26.8  |
|           | 5    | 15                | 1.76                      | 1.76 | 0.3    | 1.99  | 2.76 | 2.76 | 0.48   | 5.03  | 3.59 | 3.59 | 0.62   | 7.8   | 4.4  | 4.4  | 0.76   | 11.03 | 5.19 | 5.19 | 0.89   | 14.54 |
|           |      | 17                | 1.76                      | 1.76 | 0.3    | 2.01  | 2.77 | 2.77 | 0.48   | 5.05  | 3.59 | 3.59 | 0.62   | 7.83  | 4.4  | 4.4  | 0.76   | 11.06 | 5.2  | 5.2  | 0.9    | 14.59 |
|           |      | 19                | -                         | -    | -      | -     | 3.39 | 2.78 | 0.59   | 7.1   | 3.68 | 3.62 | 0.64   | 8.14  | 4.41 | 4.41 | 0.76   | 11.1  | 5.21 | 5.21 | 0.9    | 14.64 |
|           |      | 20                | -                         | -    | -      | -     | 4.7  | 2.8  | 0.81   | 12.27 | 4.68 | 3.6  | 0.81   | 12.17 | 4.75 | 4.42 | 0.82   | 12.5  | 5.25 | 5.24 | 0.91   | 14.93 |
|           | 6    | 15                | 1.24                      | 1.24 | 0.18   | 0.83  | 2.14 | 2.14 | 0.31   | 2.07  | 3.14 | 3.14 | 0.45   | 4.57  | 3.96 | 3.96 | 0.57   | 6.69  | 4.77 | 4.77 | 0.68   | 9.18  |
|           |      | 17                | 1.24                      | 1.24 | 0.18   | 0.83  | 2.15 | 2.15 | 0.31   | 2.08  | 3.15 | 3.15 | 0.45   | 4.59  | 3.97 | 3.97 | 0.57   | 6.72  | 4.78 | 4.78 | 0.69   | 9.21  |
|           |      | 19                | -                         | -    | -      | -     | 2.16 | 2.15 | 0.31   | 2.1   | 3.16 | 3.16 | 0.45   | 4.6   | 3.98 | 3.98 | 0.57   | 6.74  | 4.79 | 4.79 | 0.69   | 9.24  |
|           |      | 20                | -                         | -    | -      | -     | 3.43 | 2.35 | 0.49   | 5.25  | 3.49 | 3.17 | 0.5    | 5.4   | 4    | 3.99 | 0.57   | 6.82  | 4.8  | 4.8  | 0.69   | 9.26  |
| 13        | 3    | 15                | 2                         | 2    | 0.57   | 6.8   | 2.81 | 2.81 | 0.81   | 12.14 | 3.62 | 3.62 | 1.04   | 18.72 | 4.41 | 4.41 | 1.27   | 26.31 | 5.21 | 5.21 | 1.49   | 34.75 |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 |   | 17 | 2    | 2    | 0.57 | 6.82 | 2.81 | 2.81 | 0.81 | 12.18 | 3.62 | 3.62 | 1.04 | 18.78 | 4.42 | 4.42 | 1.27 | 26.34 | 5.22 | 5.22 | 1.49 | 34.87 |
|    |   | 19 | -    | -    | -    | -    | 3.49 | 2.82 | 1    | 17.58 | 3.62 | 3.6  | 1.05 | 19.2  | 4.43 | 4.43 | 1.27 | 26.41 | 5.23 | 5.23 | 1.49 | 35    |
|    |   | 20 | -    | -    | -    | -    | 4.8  | 2.83 | 1.37 | 30.26 | 4.76 | 3.63 | 1.36 | 29.85 | 4.79 | 4.44 | 1.37 | 30.12 | 5.23 | 5.22 | 1.5  | 35.04 |
|    |   | 15 | 1.46 | 1.46 | 0.31 | 2.16 | 2.37 | 2.37 | 0.51 | 5.52  | 3.19 | 3.19 | 0.68 | 9.11  | 4    | 4    | 0.86 | 13.37 | 4.8  | 4.8  | 1.03 | 18.49 |
|    | 4 | 17 | 1.46 | 1.46 | 0.31 | 2.18 | 2.38 | 2.38 | 0.51 | 5.54  | 3.2  | 3.2  | 0.68 | 9.14  | 4    | 4    | 0.86 | 13.42 | 4.81 | 4.81 | 1.04 | 18.55 |
|    |   | 19 | -    | -    | -    | -    | 2.43 | 2.41 | 0.52 | 5.74  | 3.2  | 3.2  | 0.69 | 9.17  | 4.01 | 4.01 | 0.86 | 13.47 | 4.81 | 4.81 | 1.04 | 18.62 |
|    |   | 20 | -    | -    | -    | -    | 3.57 | 2.4  | 0.77 | 11.05 | 3.6  | 3.21 | 0.77 | 11.2  | 4.04 | 4.04 | 0.87 | 13.63 | 4.83 | 4.83 | 1.04 | 18.66 |
|    |   | 15 | 0.94 | 0.94 | 0.16 | 0.72 | 1.83 | 1.83 | 0.31 | 2.19  | 2.76 | 2.76 | 0.47 | 4.88  | 3.58 | 3.58 | 0.61 | 7.55  | 4.38 | 4.38 | 0.75 | 10.65 |
|    | 5 | 17 | 0.94 | 0.94 | 0.16 | 0.72 | 1.84 | 1.84 | 0.31 | 2.21  | 2.77 | 2.77 | 0.47 | 4.89  | 3.58 | 3.58 | 0.61 | 7.57  | 4.39 | 4.39 | 0.75 | 10.69 |
|    |   | 19 | -    | -    | -    | -    | 1.84 | 1.84 | 0.32 | 2.22  | 2.78 | 2.78 | 0.48 | 4.91  | 3.59 | 3.59 | 0.62 | 7.6   | 4.41 | 4.41 | 0.75 | 10.73 |
|    |   | 20 | -    | -    | -    | -    | 2.25 | 1.94 | 0.39 | 3.46  | 2.79 | 2.78 | 0.48 | 4.96  | 3.6  | 3.6  | 0.62 | 7.62  | 4.4  | 4.4  | 0.76 | 10.75 |
|    |   | 15 | 0.69 | 0.69 | 0.1  | 0.43 | 1.24 | 1.24 | 0.18 | 0.78  | 2.23 | 2.23 | 0.32 | 2.28  | 3.14 | 3.14 | 0.45 | 4.45  | 3.96 | 3.96 | 0.57 | 6.56  |
|    | 6 | 17 | 0.69 | 0.69 | 0.1  | 0.43 | 1.24 | 1.24 | 0.18 | 0.78  | 2.23 | 2.23 | 0.32 | 2.3   | 3.15 | 3.15 | 0.45 | 4.46  | 3.97 | 3.97 | 0.57 | 6.58  |
|    |   | 19 | -    | -    | -    | -    | 1.24 | 1.24 | 0.18 | 0.79  | 2.24 | 2.24 | 0.32 | 2.32  | 3.16 | 3.16 | 0.45 | 4.48  | 3.98 | 3.98 | 0.57 | 6.61  |
|    |   | 20 | -    | -    | -    | -    | 1.24 | 1.24 | 0.18 | 0.79  | 2.25 | 2.25 | 0.32 | 2.33  | 3.17 | 3.17 | 0.45 | 4.49  | 3.98 | 3.98 | 0.57 | 6.62  |
|    |   | 15 | 1.12 | 1.12 | 0.32 | 2.34 | 1.99 | 1.99 | 0.57 | 6.67  | 2.8  | 2.8  | 0.8  | 11.9  | 3.6  | 3.6  | 1.04 | 18.58 | 4.4  | 4.4  | 1.28 | 26.31 |
|    | 3 | 17 | 1.13 | 1.13 | 0.32 | 2.36 | 1.99 | 1.99 | 0.57 | 6.69  | 2.8  | 2.8  | 0.81 | 11.94 | 3.61 | 3.61 | 1.05 | 18.64 | 4.4  | 4.4  | 1.27 | 25.92 |
|    |   | 19 | -    | -    | -    | -    | 2    | 1.99 | 0.57 | 6.71  | 2.81 | 2.81 | 0.81 | 11.99 | 3.62 | 3.62 | 1.05 | 18.71 | 4.41 | 4.41 | 1.27 | 26.01 |
|    |   | 20 | -    | -    | -    | -    | 2.43 | 2    | 0.7  | 9.32  | 2.83 | 2.81 | 0.82 | 12.28 | 3.62 | 3.62 | 1.05 | 18.75 | 4.42 | 4.42 | 1.27 | 26.06 |
|    |   | 15 | 0.64 | 0.64 | 0.14 | 0.6  | 1.51 | 1.51 | 0.33 | 2.42  | 2.38 | 2.38 | 0.51 | 5.51  | 3.19 | 3.19 | 0.69 | 9.16  | 3.99 | 3.99 | 0.87 | 13.41 |
|    | 4 | 17 | 0.65 | 0.65 | 0.14 | 0.6  | 1.52 | 1.52 | 0.33 | 2.44  | 2.38 | 2.38 | 0.51 | 5.53  | 3.2  | 3.2  | 0.69 | 9.19  | 4    | 4    | 0.87 | 13.45 |
|    |   | 19 | -    | -    | -    | -    | 1.52 | 1.52 | 0.33 | 2.46  | 2.41 | 2.41 | 0.51 | 5.55  | 3.2  | 3.2  | 0.69 | 9.23  | 4.01 | 4.01 | 0.87 | 13.5  |
|    |   | 20 | -    | -    | -    | -    | 1.52 | 1.49 | 0.33 | 2.44  | 2.41 | 2.41 | 0.52 | 5.56  | 3.21 | 3.21 | 0.7  | 9.25  | 4.01 | 4.01 | 0.87 | 13.53 |
|    |   | 15 | 0.38 | 0.38 | 0.07 | 0.28 | 0.94 | 0.94 | 0.16 | 0.69  | 1.91 | 1.91 | 0.33 | 2.53  | 2.77 | 2.77 | 0.48 | 4.89  | 3.57 | 3.57 | 0.62 | 7.54  |
|    | 5 | 17 | 0.38 | 0.38 | 0.07 | 0.28 | 0.94 | 0.94 | 0.16 | 0.7   | 1.92 | 1.92 | 0.33 | 2.55  | 2.77 | 2.77 | 0.48 | 4.91  | 3.58 | 3.58 | 0.62 | 7.57  |
|    |   | 19 | -    | -    | -    | -    | 0.95 | 0.95 | 0.16 | 0.7   | 1.92 | 1.92 | 0.33 | 2.56  | 2.78 | 2.78 | 0.48 | 4.93  | 3.59 | 3.59 | 0.62 | 7.59  |
|    |   | 20 | -    | -    | -    | -    | 0.95 | 0.95 | 0.16 | 0.7   | 1.92 | 1.92 | 0.33 | 2.57  | 2.78 | 2.78 | 0.48 | 4.94  | 3.59 | 3.59 | 0.62 | 7.61  |
|    |   | 15 | -    | -    | -    | -    | 0.69 | 0.69 | 0.1  | 0.41  | 1.24 | 1.24 | 0.18 | 0.76  | 2.3  | 2.3  | 0.33 | 2.55  | 3.15 | 3.15 | 0.45 | 4.45  |
|    | 6 | 17 | -    | -    | -    | -    | 0.69 | 0.69 | 0.1  | 0.41  | 1.24 | 1.24 | 0.18 | 0.76  | 2.3  | 2.3  | 0.33 | 2.57  | 3.16 | 3.16 | 0.46 | 4.46  |
|    |   | 19 | -    | -    | -    | -    | 0.69 | 0.69 | 0.1  | 0.41  | 1.24 | 1.24 | 0.18 | 0.76  | 2.31 | 2.31 | 0.33 | 2.58  | 3.16 | 3.16 | 0.46 | 4.48  |
|    |   | 20 | -    | -    | -    | -    | 0.69 | 0.69 | 0.1  | 0.41  | 1.24 | 1.24 | 0.18 | 0.76  | 2.32 | 2.32 | 0.33 | 2.59  | 3.17 | 3.17 | 0.46 | 4.49  |

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 5      | 3    | 15                   | 1.45                      | 1.14 | 0.41    | 31.94 | 1.45 | 1.31 | 0.41    | 31.77 | 1.47 | 1.43 | 0.42    | 32.78 | 1.65 | 1.65 | 0.47    | 39.89 | 1.82 | 1.82 | 0.53    | 48.02 |  |
|        |      | 17                   | 1.95                      | 1.14 | 0.56    | 53.26 | 1.95 | 1.32 | 0.56    | 53.14 | 1.94 | 1.49 | 0.56    | 53.34 | 1.94 | 1.66 | 0.56    | 53.3  | 1.93 | 1.83 | 0.56    | 53.04 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.49 | 1.33 | 0.72    | 82.82 | 2.49 | 1.51 | 0.72    | 82.41 | 2.48 | 1.67 | 0.72    | 82    | 2.48 | 1.86 | 0.72    | 81.83 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.78 | 1.33 | 0.8     | 98.79 | 2.77 | 1.51 | 0.8     | 98.33 | 2.76 | 1.68 | 0.79    | 97.88 | 2.75 | 1.85 | 0.79    | 97.42 |  |
|        | 4    | 15                   | 1.26                      | 1.04 | 0.27    | 15.23 | 1.26 | 1.22 | 0.27    | 15.15 | 1.39 | 1.39 | 0.3     | 18.12 | 1.56 | 1.56 | 0.34    | 22.1  | 1.73 | 1.73 | 0.37    | 26.14 |  |
|        |      | 17                   | 1.76                      | 1.05 | 0.38    | 26.99 | 1.75 | 1.22 | 0.38    | 26.85 | 1.75 | 1.4  | 0.38    | 26.72 | 1.74 | 1.57 | 0.37    | 26.61 | 1.74 | 1.73 | 0.37    | 26.63 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.29 | 1.23 | 0.49    | 42.46 | 2.28 | 1.41 | 0.49    | 42.25 | 2.28 | 1.58 | 0.49    | 42.04 | 2.27 | 1.75 | 0.49    | 41.83 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.58 | 1.24 | 0.55    | 52.26 | 2.57 | 1.41 | 0.55    | 51.92 | 2.56 | 1.58 | 0.55    | 51.62 | 2.56 | 1.76 | 0.55    | 51.33 |  |
|        | 5    | 15                   | 1.06                      | 0.95 | 0.18    | 7.78  | 1.12 | 1.12 | 0.19    | 8.55  | 1.3  | 1.3  | 0.22    | 10.87 | 1.47 | 1.47 | 0.25    | 13.41 | 1.64 | 1.64 | 0.28    | 16.31 |  |
|        |      | 17                   | 1.56                      | 0.96 | 0.27    | 14.99 | 1.55 | 1.13 | 0.27    | 14.91 | 1.55 | 1.3  | 0.27    | 14.83 | 1.54 | 1.47 | 0.27    | 14.75 | 1.64 | 1.64 | 0.28    | 16.38 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.08 | 1.14 | 0.36    | 24.41 | 2.08 | 1.31 | 0.36    | 24.28 | 2.07 | 1.48 | 0.36    | 24.15 | 2.07 | 1.65 | 0.35    | 24.03 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.38 | 1.15 | 0.41    | 30.76 | 2.37 | 1.32 | 0.41    | 30.61 | 2.36 | 1.49 | 0.41    | 30.46 | 2.36 | 1.66 | 0.41    | 30.32 |  |
|        | 6    | 15                   | 0.86                      | 0.84 | 0.12    | 3.57  | 1.03 | 1.03 | 0.15    | 5.42  | 1.2  | 1.2  | 0.17    | 7.08  | 1.38 | 1.38 | 0.2     | 8.84  | 1.55 | 1.55 | 0.22    | 10.76 |  |
|        |      | 17                   | 1.35                      | 0.87 | 0.19    | 8.55  | 1.34 | 1.04 | 0.19    | 8.5   | 1.34 | 1.21 | 0.19    | 8.46  | 1.37 | 1.32 | 0.2     | 8.82  | 1.55 | 1.55 | 0.22    | 10.81 |  |
|        |      | 19                   | -                         | -    | -       | -     | 1.88 | 1.05 | 0.27    | 14.95 | 1.87 | 1.22 | 0.27    | 14.87 | 1.87 | 1.39 | 0.27    | 14.79 | 1.86 | 1.56 | 0.27    | 14.72 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.16 | 1.05 | 0.31    | 18.86 | 2.15 | 1.23 | 0.31    | 18.76 | 2.15 | 1.4  | 0.31    | 18.66 | 2.14 | 1.57 | 0.31    | 18.57 |  |
| 7      | 3    | 15                   | 1.06                      | 0.95 | 0.31    | 18.79 | 1.12 | 1.12 | 0.32    | 20.65 | 1.29 | 1.29 | 0.37    | 25.99 | 1.47 | 1.47 | 0.42    | 32.65 | 1.64 | 1.64 | 0.47    | 39.47 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 1.56 | 0.96 | 0.45 | 36.14 | 1.55 | 1.13 | 0.45 | 35.98 | 1.55 | 1.3  | 0.45 | 35.79 | 1.54 | 1.47 | 0.45 | 35.6  | 1.64 | 1.64 | 0.47 | 39.67 |
|   |   | 19 | -    | -    | -    | -     | 2.09 | 1.14 | 0.6  | 59.71 | 2.07 | 1.31 | 0.6  | 59.41 | 2.07 | 1.48 | 0.6  | 59.14 | 2.07 | 1.65 | 0.6  | 59.05 |
|   |   | 20 | -    | -    | -    | -     | 2.37 | 1.15 | 0.68 | 74.11 | 2.36 | 1.32 | 0.68 | 73.76 | 2.36 | 1.5  | 0.68 | 73.51 | 2.35 | 1.66 | 0.68 | 73.46 |
|   |   | 15 | 0.86 | 0.85 | 0.19 | 7.94  | 1.03 | 1.03 | 0.22 | 10.87 | 1.2  | 1.2  | 0.26 | 14.09 | 1.37 | 1.37 | 0.3  | 17.46 | 1.55 | 1.55 | 0.33 | 21.33 |
|   |   | 17 | 1.35 | 0.87 | 0.29 | 16.83 | 1.34 | 1.04 | 0.29 | 16.73 | 1.34 | 1.21 | 0.29 | 16.66 | 1.37 | 1.33 | 0.29 | 17.44 | 1.55 | 1.55 | 0.33 | 21.44 |
|   |   | 19 | -    | -    | -    | -     | 1.88 | 1.05 | 0.41 | 30.15 | 1.88 | 1.22 | 0.41 | 30.02 | 1.87 | 1.39 | 0.4  | 29.85 | 1.86 | 1.56 | 0.4  | 29.7  |
|   |   | 20 | -    | -    | -    | -     | 2.16 | 1.05 | 0.46 | 37.91 | 2.15 | 1.23 | 0.46 | 37.73 | 2.15 | 1.4  | 0.46 | 37.54 | 2.14 | 1.57 | 0.46 | 37.35 |
|   |   | 15 | 0.78 | 0.78 | 0.13 | 4.36  | 0.94 | 0.94 | 0.16 | 6.32  | 1.12 | 1.12 | 0.19 | 8.39  | 1.28 | 1.28 | 0.22 | 10.62 | 1.45 | 1.45 | 0.25 | 13.05 |
|   |   | 17 | 1.14 | 0.78 | 0.2  | 8.69  | 1.13 | 0.95 | 0.2  | 8.64  | 1.13 | 1.13 | 0.2  | 8.64  | 1.29 | 1.29 | 0.22 | 10.66 | 1.46 | 1.46 | 0.25 | 13.11 |
|   |   | 19 | -    | -    | -    | -     | 1.66 | 0.96 | 0.29 | 16.39 | 1.66 | 1.13 | 0.28 | 16.29 | 1.87 | 1.36 | 0.32 | 26.1  | 1.65 | 1.47 | 0.28 | 16.12 |
|   |   | 20 | -    | -    | -    | -     | 1.95 | 0.96 | 0.33 | 21.43 | 1.94 | 1.13 | 0.33 | 21.32 | 1.93 | 1.3  | 0.33 | 21.2  | 1.93 | 1.49 | 0.33 | 21.17 |
|   | 6 | 15 | 0.68 | 0.68 | 0.1  | 2.17  | 0.85 | 0.85 | 0.12 | 3.61  | 1.02 | 1.02 | 0.15 | 5.29  | 1.19 | 1.19 | 0.17 | 6.85  | 1.37 | 1.37 | 0.2  | 8.57  |
|   |   | 17 | 0.92 | 0.69 | 0.13 | 4.3   | 0.92 | 0.86 | 0.13 | 4.26  | 1.03 | 1.03 | 0.15 | 5.31  | 1.2  | 1.2  | 0.17 | 6.88  | 1.37 | 1.37 | 0.2  | 8.61  |
|   |   | 19 | -    | -    | -    | -     | 1.44 | 0.87 | 0.21 | 9.43  | 1.44 | 1.04 | 0.21 | 9.37  | 1.43 | 1.21 | 0.21 | 9.32  | 1.43 | 1.38 | 0.21 | 9.3   |
|   |   | 20 | -    | -    | -    | -     | 1.72 | 0.87 | 0.25 | 12.68 | 1.74 | 1.11 | 0.25 | 12.83 | 1.71 | 1.21 | 0.25 | 12.54 | 1.7  | 1.36 | 0.24 | 12.42 |
|   | 3 | 15 | 0.77 | 0.77 | 0.22 | 10.62 | 0.95 | 0.95 | 0.27 | 14.83 | 1.12 | 1.12 | 0.32 | 19.69 | 1.29 | 1.29 | 0.37 | 25.12 | 1.46 | 1.46 | 0.42 | 31.53 |
|   |   | 17 | 1.14 | 0.78 | 0.33 | 20.39 | 1.13 | 0.96 | 0.32 | 20.29 | 1.13 | 1.13 | 0.32 | 20.28 | 1.29 | 1.29 | 0.37 | 25.24 | 1.46 | 1.46 | 0.42 | 31.68 |
|   |   | 19 | -    | -    | -    | -     | 1.66 | 0.96 | 0.48 | 39.18 | 1.66 | 1.13 | 0.47 | 38.96 | 1.65 | 1.3  | 0.47 | 38.74 | 1.65 | 1.47 | 0.47 | 38.52 |
|   |   | 20 | -    | -    | -    | -     | 1.95 | 0.96 | 0.56 | 52.15 | 1.94 | 1.13 | 0.56 | 51.88 | 1.94 | 1.3  | 0.56 | 51.6  | 1.93 | 1.47 | 0.56 | 51.33 |
|   | 4 | 15 | 0.68 | 0.68 | 0.15 | 5.29  | 0.86 | 0.86 | 0.18 | 7.7   | 1.03 | 1.03 | 0.22 | 10.46 | 1.2  | 1.2  | 0.26 | 13.49 | 1.37 | 1.37 | 0.29 | 17    |
|   |   | 17 | 0.92 | 0.7  | 0.2  | 8.76  | 0.92 | 0.86 | 0.2  | 8.69  | 1.03 | 1.03 | 0.22 | 10.5  | 1.2  | 1.2  | 0.26 | 13.55 | 1.37 | 1.37 | 0.29 | 17.08 |
|   |   | 19 | -    | -    | -    | -     | 1.45 | 0.87 | 0.31 | 18.84 | 1.44 | 1.04 | 0.31 | 18.73 | 1.44 | 1.21 | 0.31 | 18.62 | 1.43 | 1.38 | 0.31 | 18.57 |
|   |   | 20 | -    | -    | -    | -     | 1.73 | 0.87 | 0.37 | 25.5  | 1.72 | 1.04 | 0.37 | 25.35 | 1.72 | 1.21 | 0.37 | 25.23 | 1.71 | 1.38 | 0.37 | 25.08 |
|   | 5 | 15 | 0.6  | 0.6  | 0.1  | 2.41  | 0.77 | 0.77 | 0.13 | 4.31  | 0.94 | 0.94 | 0.16 | 6.09  | 1.11 | 1.11 | 0.19 | 8.06  | 1.27 | 1.27 | 0.22 | 10.25 |
|   |   | 17 | 0.7  | 0.6  | 0.12 | 3.46  | 0.77 | 0.75 | 0.13 | 4.32  | 0.94 | 0.94 | 0.16 | 6.12  | 1.11 | 1.11 | 0.19 | 8.1   | 1.28 | 1.28 | 0.22 | 10.29 |
|   |   | 19 | -    | -    | -    | -     | 1.22 | 0.78 | 0.21 | 9.49  | 1.21 | 0.95 | 0.21 | 9.43  | 1.21 | 1.12 | 0.21 | 9.38  | 1.28 | 1.26 | 0.22 | 10.34 |
|   |   | 20 | -    | -    | -    | -     | 1.5  | 0.78 | 0.26 | 13.46 | 1.49 | 0.95 | 0.26 | 13.38 | 1.49 | 1.12 | 0.26 | 13.3  | 1.48 | 1.29 | 0.25 | 13.22 |
|   | 6 | 15 | 0.51 | 0.51 | 0.07 | 1.28  | 0.68 | 0.68 | 0.1  | 2.16  | 0.85 | 0.85 | 0.12 | 3.64  | 1.02 | 1.02 | 0.15 | 5.14  | 1.18 | 1.18 | 0.17 | 6.65  |
|   |   | 17 | 0.5  | 0.44 | 0.07 | 1.25  | 0.68 | 0.68 | 0.1  | 2.17  | 0.85 | 0.85 | 0.12 | 3.66  | 1.02 | 1.02 | 0.15 | 5.17  | 1.19 | 1.19 | 0.17 | 6.68  |
|   |   | 19 | -    | -    | -    | -     | 0.99 | 0.69 | 0.14 | 4.88  | 0.98 | 0.86 | 0.14 | 4.85  | 1.01 | 0.94 | 0.15 | 5.12  | 1.19 | 1.19 | 0.17 | 6.71  |
|   |   | 20 | -    | -    | -    | -     | 1.26 | 0.69 | 0.18 | 7.41  | 1.26 | 0.86 | 0.18 | 7.36  | 1.25 | 1.03 | 0.18 | 7.31  | 1.25 | 1.21 | 0.18 | 7.3   |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11     | 3    | 15                   | 0.6                       | 0.6  | 0.17    | 6.77  | 0.76 | 0.76 | 0.22    | 10.33 | 0.94 | 0.94 | 0.27    | 14.51 | 1.11 | 1.11 | 0.32    | 19.27 | 1.28 | 1.28 | 0.37    | 24.59 |  |
|        |      | 17                   | 0.7                       | 0.6  | 0.2     | 8.83  | 0.77 | 0.75 | 0.22    | 10.35 | 0.94 | 0.94 | 0.27    | 14.58 | 1.11 | 1.11 | 0.32    | 19.36 | 1.28 | 1.28 | 0.37    | 24.7  |  |
|        |      | 19                   | -                         | -    | -       | -     | 1.22 | 0.78 | 0.35    | 22.75 | 1.21 | 0.95 | 0.35    | 22.61 | 1.21 | 1.11 | 0.35    | 22.46 | 1.28 | 1.27 | 0.37    | 24.81 |  |
|        |      | 20                   | -                         | -    | -       | -     | 1.5  | 0.78 | 0.43    | 32.69 | 1.49 | 0.95 | 0.43    | 32.47 | 1.49 | 1.12 | 0.43    | 32.27 | 1.48 | 1.29 | 0.43    | 32.09 |  |
|        | 4    | 15                   | 0.51                      | 0.51 | 0.11    | 2.87  | 0.68 | 0.68 | 0.15    | 5.18  | 0.85 | 0.85 | 0.18    | 7.53  | 1.02 | 1.02 | 0.22    | 10.24 | 1.18 | 1.18 | 0.25    | 13.15 |  |
|        |      | 17                   | 0.5                       | 0.43 | 0.11    | 2.77  | 0.68 | 0.68 | 0.15    | 5.21  | 0.85 | 0.85 | 0.18    | 7.56  | 1.02 | 1.02 | 0.22    | 10.28 | 1.19 | 1.19 | 0.26    | 13.21 |  |
|        |      | 19                   | -                         | -    | -       | -     | 0.99 | 0.69 | 0.21    | 9.72  | 0.98 | 0.86 | 0.21    | 9.65  | 1.02 | 0.95 | 0.22    | 10.21 | 1.19 | 1.19 | 0.26    | 13.28 |  |
|        |      | 20                   | -                         | -    | -       | -     | 1.26 | 0.69 | 0.27    | 14.65 | 1.26 | 0.86 | 0.27    | 14.55 | 1.25 | 1.03 | 0.27    | 14.46 | 1.25 | 1.21 | 0.27    | 14.44 |  |
|        | 5    | 15                   | 0.42                      | 0.42 | 0.07    | 1.26  | 0.59 | 0.59 | 0.1     | 2.43  | 0.76 | 0.76 | 0.13    | 4.27  | 0.93 | 0.93 | 0.16    | 5.98  | 1.1  | 1.1  | 0.19    | 7.91  |  |
|        |      | 17                   | 0.42                      | 0.42 | 0.07    | 1.27  | 0.59 | 0.59 | 0.1     | 2.44  | 0.76 | 0.76 | 0.13    | 4.29  | 0.93 | 0.93 | 0.16    | 6.01  | 1.1  | 1.1  | 0.19    | 7.95  |  |
|        |      | 19                   | -                         | -    | -       | -     | 0.75 | 0.6  | 0.13    | 4.15  | 0.76 | 0.7  | 0.13    | 4.24  | 0.93 | 0.93 | 0.16    | 6.04  | 1.1  | 1.1  | 0.19    | 7.99  |  |
|        |      | 20                   | -                         | -    | -       | -     | 1.03 | 0.61 | 0.18    | 7.06  | 1.02 | 0.77 | 0.18    | 6.99  | 1.02 | 0.95 | 0.18    | 6.97  | 1.11 | 1.09 | 0.19    | 8.01  |  |
|        | 6    | 15                   | 0.34                      | 0.34 | 0.05    | 0.77  | 0.51 | 0.51 | 0.07    | 1.24  | 0.68 | 0.68 | 0.1     | 2.16  | 0.84 | 0.84 | 0.12    | 3.65  | 1.01 | 1.01 | 0.14    | 4.97  |  |
|        |      | 17                   | 0.34                      | 0.34 | 0.05    | 0.77  | 0.51 | 0.51 | 0.07    | 1.25  | 0.68 | 0.68 | 0.1     | 2.17  | 0.84 | 0.84 | 0.12    | 3.67  | 1.01 | 1.01 | 0.14    | 4.99  |  |
|        |      | 19                   | -                         | -    | -       | -     | 0.51 | 0.46 | 0.07    | 1.24  | 0.68 | 0.68 | 0.1     | 2.19  | 0.85 | 0.85 | 0.12    | 3.69  | 1.01 | 1.01 | 0.15    | 5.02  |  |
|        |      | 20                   | -                         | -    | -       | -     | 0.9  | 0.65 | 0.13    | 4.14  | 0.77 | 0.68 | 0.11    | 3     | 0.84 | 0.8  | 0.12    | 3.67  | 1.02 | 1.02 | 0.15    | 5.03  |  |
| 13     | 3    | 15                   | 0.42                      | 0.42 | 0.12    | 3.67  | 0.59 | 0.59 | 0.17    | 6.57  | 0.77 | 0.77 | 0.22    | 10.04 | 0.93 | 0.93 | 0.26    | 13.91 | 1.1  | 1.1  | 0.32    | 18.74 |  |



# Universal Fancoil DC

# MUC-W9 series

|    |    |    |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |
|----|----|----|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 |    | 17 | 0.42 | 0.42 | 0.12 | 3.69 | 0.59 | 0.59 | 0.17 | 6.6  | 0.76 | 0.76 | 0.22 | 10.08 | 0.93 | 0.93 | 0.27 | 13.97 | 1.1  | 1.1  | 0.32 | 18.83 |
|    |    | 19 | -    | -    | -    | -    | 0.75 | 0.6  | 0.22 | 9.77 | 0.76 | 0.71 | 0.22 | 10.11 | 0.93 | 0.93 | 0.27 | 14.04 | 1.1  | 1.1  | 0.32 | 18.92 |
|    |    | 20 | -    | -    | -    | -    | 1.03 | 0.6  | 0.29 | 16.7 | 1.02 | 0.77 | 0.29 | 16.59 | 1.02 | 0.94 | 0.29 | 16.48 | 1.11 | 1.09 | 0.32 | 18.97 |
|    | 4  | 15 | 0.34 | 0.34 | 0.07 | 1.23 | 0.51 | 0.51 | 0.11 | 2.85 | 0.67 | 0.67 | 0.14 | 4.93  | 0.84 | 0.84 | 0.18 | 7.2   | 1.01 | 1.01 | 0.22 | 9.78  |
|    |    | 17 | 0.34 | 0.34 | 0.07 | 1.24 | 0.51 | 0.51 | 0.11 | 2.87 | 0.67 | 0.67 | 0.14 | 4.95  | 0.84 | 0.84 | 0.18 | 7.23  | 1.01 | 1.01 | 0.22 | 9.83  |
|    |    | 19 | -    | -    | -    | -    | 0.51 | 0.49 | 0.11 | 2.86 | 0.68 | 0.68 | 0.14 | 4.98  | 0.85 | 0.85 | 0.18 | 7.27  | 1.02 | 1.02 | 0.22 | 9.88  |
|    | 5  | 20 | -    | -    | -    | -    | 0.78 | 0.51 | 0.17 | 6.29 | 0.77 | 0.68 | 0.17 | 6.23  | 0.84 | 0.8  | 0.18 | 7.23  | 1.02 | 1.02 | 0.22 | 9.91  |
|    |    | 15 | 0.25 | 0.25 | 0.04 | 0.67 | 0.42 | 0.42 | 0.07 | 1.21 | 0.59 | 0.59 | 0.1  | 2.39  | 0.76 | 0.76 | 0.13 | 4.1   | 0.93 | 0.93 | 0.16 | 5.73  |
|    |    | 17 | 0.25 | 0.25 | 0.04 | 0.67 | 0.42 | 0.42 | 0.07 | 1.21 | 0.59 | 0.59 | 0.1  | 2.4   | 0.76 | 0.76 | 0.13 | 4.12  | 0.92 | 0.92 | 0.16 | 5.76  |
|    | 6  | 19 | -    | -    | -    | -    | 0.42 | 0.42 | 0.07 | 1.22 | 0.59 | 0.59 | 0.1  | 2.42  | 0.76 | 0.76 | 0.13 | 4.14  | 0.93 | 0.93 | 0.16 | 5.79  |
|    |    | 20 | -    | -    | -    | -    | 0.52 | 0.42 | 0.09 | 1.82 | 0.59 | 0.53 | 0.1  | 2.36  | 0.76 | 0.76 | 0.13 | 4.15  | 0.93 | 0.93 | 0.16 | 5.8   |
|    | 7  | 15 | 0.17 | 0.17 | 0.02 | 0.36 | 0.34 | 0.34 | 0.05 | 0.72 | 0.5  | 0.5  | 0.07 | 1.19  | 0.67 | 0.67 | 0.1  | 2.12  | 0.84 | 0.84 | 0.12 | 3.54  |
|    |    | 17 | 0.17 | 0.17 | 0.02 | 0.36 | 0.34 | 0.34 | 0.05 | 0.72 | 0.5  | 0.5  | 0.07 | 1.2   | 0.69 | 0.69 | 0.1  | 2.13  | 0.84 | 0.84 | 0.12 | 3.56  |
|    |    | 19 | -    | -    | -    | -    | 0.34 | 0.34 | 0.05 | 0.73 | 0.5  | 0.5  | 0.07 | 1.2   | 0.67 | 0.67 | 0.1  | 2.15  | 0.84 | 0.84 | 0.12 | 3.58  |
|    | 8  | 20 | -    | -    | -    | -    | 0.33 | 0.25 | 0.05 | 0.71 | 0.51 | 0.51 | 0.07 | 1.2   | 0.67 | 0.67 | 0.1  | 2.16  | 0.84 | 0.84 | 0.12 | 3.59  |
|    | 9  | 15 | 0.25 | 0.25 | 0.07 | 1.21 | 0.42 | 0.42 | 0.12 | 3.62 | 0.59 | 0.59 | 0.17 | 6.39  | 0.76 | 0.76 | 0.22 | 9.76  | 0.92 | 0.92 | 0.27 | 13.9  |
|    |    | 17 | 0.25 | 0.25 | 0.07 | 1.22 | 0.42 | 0.42 | 0.12 | 3.64 | 0.59 | 0.59 | 0.17 | 6.42  | 0.76 | 0.76 | 0.22 | 9.8   | 0.93 | 0.93 | 0.27 | 13.97 |
|    |    | 19 | -    | -    | -    | -    | 0.42 | 0.42 | 0.12 | 3.66 | 0.59 | 0.59 | 0.17 | 6.45  | 0.76 | 0.76 | 0.22 | 9.85  | 0.93 | 0.93 | 0.27 | 14.03 |
|    | 10 | 20 | -    | -    | -    | -    | 0.52 | 0.42 | 0.15 | 5.27 | 0.59 | 0.51 | 0.17 | 6.34  | 0.76 | 0.76 | 0.22 | 9.88  | 0.93 | 0.93 | 0.27 | 14.08 |
|    |    | 15 | 0.17 | 0.17 | 0.04 | 0.54 | 0.33 | 0.33 | 0.07 | 1.2  | 0.5  | 0.5  | 0.11 | 2.86  | 0.67 | 0.67 | 0.14 | 4.86  | 0.84 | 0.84 | 0.18 | 7.06  |
|    |    | 17 | 0.17 | 0.17 | 0.04 | 0.54 | 0.34 | 0.34 | 0.07 | 1.2  | 0.5  | 0.5  | 0.11 | 2.88  | 0.67 | 0.67 | 0.14 | 4.88  | 0.84 | 0.84 | 0.18 | 7.09  |
|    | 11 | 19 | -    | -    | -    | -    | 0.34 | 0.34 | 0.07 | 1.21 | 0.51 | 0.51 | 0.11 | 2.9   | 0.67 | 0.67 | 0.14 | 4.91  | 0.84 | 0.84 | 0.18 | 7.13  |
|    |    | 20 | -    | -    | -    | -    | 0.33 | 0.27 | 0.07 | 1.16 | 0.51 | 0.51 | 0.11 | 2.91  | 0.67 | 0.67 | 0.15 | 4.92  | 0.84 | 0.84 | 0.18 | 7.15  |
|    | 12 | 15 | 0.08 | 0.08 | 0.01 | 0.21 | 0.25 | 0.25 | 0.04 | 0.63 | 0.42 | 0.42 | 0.07 | 1.19  | 0.58 | 0.58 | 0.1  | 2.44  | 0.72 | 0.72 | 0.13 | 4.05  |
|    |    | 17 | 0.08 | 0.08 | 0.01 | 0.21 | 0.25 | 0.25 | 0.04 | 0.64 | 0.42 | 0.42 | 0.07 | 1.2   | 0.59 | 0.59 | 0.1  | 2.46  | 0.73 | 0.73 | 0.13 | 4.07  |
|    |    | 19 | -    | -    | -    | -    | 0.25 | 0.25 | 0.04 | 0.64 | 0.42 | 0.42 | 0.07 | 1.2   | 0.59 | 0.59 | 0.1  | 2.48  | 0.76 | 0.76 | 0.13 | 4.08  |
|    | 13 | 20 | -    | -    | -    | -    | 0.25 | 0.25 | 0.04 | 0.64 | 0.42 | 0.42 | 0.07 | 1.21  | 0.59 | 0.59 | 0.1  | 2.49  | 0.75 | 0.75 | 0.13 | 4.09  |
|    | 14 | 15 | -    | -    | -    | -    | 0.17 | 0.17 | 0.02 | 0.34 | 0.33 | 0.33 | 0.05 | 0.69  | 0.5  | 0.5  | 0.07 | 1.17  | 0.66 | 0.66 | 0.1  | 2.17  |
|    |    | 17 | -    | -    | -    | -    | 0.17 | 0.17 | 0.02 | 0.34 | 0.33 | 0.33 | 0.05 | 0.69  | 0.5  | 0.5  | 0.07 | 1.18  | 0.67 | 0.67 | 0.1  | 2.18  |
|    |    | 19 | -    | -    | -    | -    | 0.17 | 0.17 | 0.02 | 0.34 | 0.33 | 0.33 | 0.05 | 0.69  | 0.5  | 0.5  | 0.07 | 1.19  | 0.67 | 0.67 | 0.1  | 2.2   |
|    | 15 | 20 | -    | -    | -    | -    | 0.17 | 0.17 | 0.02 | 0.34 | 0.33 | 0.33 | 0.05 | 0.69  | 0.5  | 0.5  | 0.07 | 1.19  | 0.67 | 0.67 | 0.1  | 2.2   |

## Abbreviations:

EWT: Enter Water Temp. (°C)    ΔT: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 5      | 3    | 15                   | 2.1                       | 1.66 | 0.6     | 30.6  | 2.1  | 1.91 | 0.6     | 30.42 | 2.16 | 2.14 | 0.62    | 31.7  | 2.41 | 2.41 | 0.69    | 38.44 | 2.66 | 2.66 | 0.76    | 45.56 |  |
|        |      | 17                   | 2.85                      | 1.67 | 0.82    | 51.84 | 2.84 | 1.92 | 0.82    | 51.5  | 2.82 | 2.17 | 0.81    | 51.15 | 2.81 | 2.42 | 0.81    | 50.83 | 2.81 | 2.67 | 0.81    | 50.62 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.63 | 1.93 | 1.04    | 78.19 | 3.62 | 2.19 | 1.04    | 77.75 | 3.61 | 2.44 | 1.03    | 77.5  | 3.6  | 2.69 | 1.03    | 77.52 |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.05 | 1.94 | 1.16    | 94.95 | 4.04 | 2.19 | 1.16    | 94.48 | 4.03 | 2.45 | 1.16    | 94.01 | 4.02 | 2.7  | 1.15    | 93.49 |  |
|        | 4    | 15                   | 1.81                      | 1.52 | 0.39    | 14.28 | 1.81 | 1.77 | 0.39    | 14.26 | 2.02 | 2.02 | 0.44    | 17.44 | 2.27 | 2.27 | 0.49    | 21.29 | 2.52 | 2.52 | 0.54    | 25.2  |  |
|        |      | 17                   | 2.54                      | 1.53 | 0.54    | 25.52 | 2.53 | 1.78 | 0.54    | 25.34 | 2.52 | 2.03 | 0.54    | 25.17 | 2.51 | 2.28 | 0.54    | 25.03 | 2.53 | 2.52 | 0.54    | 25.26 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.33 | 1.79 | 0.71    | 40.69 | 3.32 | 2.05 | 0.71    | 40.45 | 3.31 | 2.3  | 0.71    | 40.2  | 3.3  | 2.55 | 0.71    | 39.95 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.75 | 1.8  | 0.81    | 49.96 | 3.74 | 2.05 | 0.8     | 49.7  | 3.73 | 2.31 | 0.8     | 49.43 | 3.72 | 2.56 | 0.8     | 49.14 |  |
|        | 5    | 15                   | 1.49                      | 1.37 | 0.26    | 7.08  | 1.63 | 1.63 | 0.28    | 8.15  | 1.88 | 1.88 | 0.32    | 10.42 | 2.13 | 2.13 | 0.37    | 12.9  | 2.39 | 2.39 | 0.41    | 15.73 |  |
|        |      | 17                   | 2.24                      | 1.39 | 0.38    | 13.97 | 2.23 | 1.64 | 0.38    | 13.86 | 2.22 | 1.89 | 0.38    | 13.77 | 2.22 | 2.14 | 0.38    | 13.74 | 2.39 | 2.39 | 0.41    | 15.79 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.02 | 1.66 | 0.52    | 23.3  | 3.01 | 1.91 | 0.52    | 23.15 | 3    | 2.16 | 0.51    | 22.99 | 2.99 | 2.41 | 0.51    | 22.84 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.45 | 1.67 | 0.59    | 29.48 | 3.44 | 1.92 | 0.59    | 29.31 | 3.43 | 2.17 | 0.59    | 29.13 | 3.42 | 2.42 | 0.59    | 28.95 |  |
|        | 6    | 15                   | 1.19                      | 1.19 | 0.17    | 2.91  | 1.48 | 1.48 | 0.21    | 4.91  | 1.74 | 1.74 | 0.25    | 6.75  | 2    | 2    | 0.29    | 8.48  | 2.25 | 2.25 | 0.32    | 10.36 |  |
|        |      | 17                   | 1.92                      | 1.25 | 0.27    | 7.93  | 1.91 | 1.5  | 0.27    | 7.87  | 1.9  | 1.75 | 0.27    | 7.83  | 2    | 2    | 0.29    | 8.51  | 2.26 | 2.26 | 0.32    | 10.4  |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.71 | 1.52 | 0.39    | 14.18 | 2.7  | 1.77 | 0.39    | 14.08 | 2.69 | 2.02 | 0.39    | 13.99 | 2.68 | 2.27 | 0.38    | 13.9  |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.13 | 1.52 | 0.45    | 17.98 | 3.11 | 1.78 | 0.44    | 17.86 | 3.1  | 2.03 | 0.44    | 17.75 | 3.09 | 2.28 | 0.44    | 17.63 |  |
| 7      | 3    | 15                   | 1.54                      | 1.39 | 0.44    | 17.79 | 1.64 | 1.64 | 0.47    | 19.92 | 1.89 | 1.89 | 0.54    | 25.08 | 2.15 | 2.15 | 0.62    | 31.55 | 2.4  | 2.4  | 0.69    | 38.16 |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 |   | 17 | 2.26 | 1.4  | 0.65 | 34.58 | 2.26 | 1.65 | 0.65 | 34.47 | 2.24 | 1.9  | 0.65 | 33.78 | 2.24 | 2.15 | 0.65 | 33.77 | 2.4  | 2.4  | 0.69 | 38.32 |
|   |   | 19 | -    | -    | -    | -     | 3.05 | 1.67 | 0.88 | 57.94 | 3.04 | 1.92 | 0.88 | 57.54 | 3.03 | 2.17 | 0.88 | 57.16 | 3.01 | 2.42 | 0.87 | 56.77 |
|   |   | 20 | -    | -    | -    | -     | 3.47 | 1.67 | 1.01 | 72.56 | 3.46 | 1.93 | 1    | 72.16 | 3.45 | 2.18 | 1    | 71.73 | 3.43 | 2.43 | 0.99 | 71.28 |
|   |   | 15 | 1.24 | 1.22 | 0.27 | 7.57  | 1.51 | 1.51 | 0.32 | 10.45 | 1.76 | 1.76 | 0.38 | 13.59 | 2.01 | 2.01 | 0.43 | 16.87 | 2.26 | 2.26 | 0.49 | 20.62 |
|   | 4 | 17 | 1.95 | 1.26 | 0.42 | 16.1  | 1.94 | 1.52 | 0.42 | 16.07 | 1.94 | 1.76 | 0.42 | 16    | 2.01 | 1.99 | 0.43 | 16.88 | 2.26 | 2.26 | 0.49 | 20.7  |
|   |   | 19 | -    | -    | -    | -     | 2.73 | 1.53 | 0.59 | 28.5  | 2.72 | 1.78 | 0.58 | 28.3  | 2.71 | 2.03 | 0.58 | 28.1  | 2.7  | 2.28 | 0.58 | 27.92 |
|   |   | 20 | -    | -    | -    | -     | 3.15 | 1.53 | 0.68 | 36.43 | 3.14 | 1.78 | 0.67 | 36.2  | 3.13 | 2.04 | 0.67 | 35.97 | 3.11 | 2.29 | 0.67 | 35.74 |
|   |   | 15 | 1.1  | 1.1  | 0.19 | 3.78  | 1.37 | 1.37 | 0.24 | 6.03  | 1.62 | 1.62 | 0.28 | 8.06  | 1.87 | 1.87 | 0.32 | 10.24 | 2.12 | 2.12 | 0.36 | 12.6  |
|   | 5 | 17 | 1.62 | 1.13 | 0.28 | 8.08  | 1.62 | 1.38 | 0.28 | 8.03  | 1.63 | 1.63 | 0.28 | 8.12  | 1.88 | 1.88 | 0.32 | 10.28 | 2.13 | 2.13 | 0.37 | 12.66 |
|   |   | 19 | -    | -    | -    | -     | 2.4  | 1.39 | 0.41 | 15.57 | 2.39 | 1.64 | 0.41 | 15.45 | 2.55 | 1.84 | 0.44 | 23.2  | 2.38 | 2.14 | 0.41 | 15.27 |
|   |   | 20 | -    | -    | -    | -     | 2.82 | 1.4  | 0.49 | 20.5  | 2.81 | 1.65 | 0.48 | 20.35 | 2.8  | 1.9  | 0.48 | 20.22 | 2.79 | 2.15 | 0.48 | 20.08 |
|   |   | 15 | 0.91 | 0.91 | 0.13 | 1.77  | 1.2  | 1.2  | 0.17 | 3.05  | 1.48 | 1.48 | 0.21 | 4.97  | 1.74 | 1.74 | 0.25 | 6.58  | 1.99 | 1.99 | 0.29 | 8.27  |
|   | 6 | 17 | 1.18 | 0.95 | 0.17 | 2.97  | 1.2  | 1.2  | 0.17 | 3.09  | 1.48 | 1.48 | 0.21 | 4.99  | 1.74 | 1.74 | 0.25 | 6.6   | 1.99 | 1.99 | 0.29 | 8.3   |
|   |   | 19 | -    | -    | -    | -     | 2.07 | 1.25 | 0.3  | 8.84  | 2.06 | 1.5  | 0.3  | 8.78  | 2.05 | 1.75 | 0.29 | 8.72  | 2.05 | 2    | 0.29 | 8.74  |
|   |   | 20 | -    | -    | -    | -     | 2.49 | 1.26 | 0.36 | 12.03 | 2.48 | 1.51 | 0.35 | 11.94 | 2.47 | 1.76 | 0.35 | 11.92 | 2.46 | 2.01 | 0.35 | 11.84 |
|   |   | 15 | 1.13 | 1.13 | 0.32 | 10.23 | 1.38 | 1.38 | 0.39 | 14.31 | 1.63 | 1.63 | 0.47 | 19.05 | 1.88 | 1.88 | 0.54 | 24.32 | 2.13 | 2.13 | 0.61 | 30.57 |
|   | 3 | 17 | 1.65 | 1.14 | 0.47 | 19.35 | 1.64 | 1.39 | 0.47 | 19.22 | 1.65 | 1.64 | 0.47 | 19.41 | 1.89 | 1.89 | 0.54 | 24.42 | 2.14 | 2.14 | 0.62 | 30.69 |
|   |   | 19 | -    | -    | -    | -     | 2.42 | 1.4  | 0.69 | 37.58 | 2.41 | 1.65 | 0.69 | 37.3  | 2.4  | 1.9  | 0.69 | 37.04 | 2.39 | 2.15 | 0.69 | 36.84 |
|   |   | 20 | -    | -    | -    | -     | 2.85 | 1.41 | 0.82 | 50.29 | 2.83 | 1.66 | 0.82 | 49.94 | 2.82 | 1.91 | 0.81 | 49.59 | 2.81 | 2.16 | 0.81 | 49.27 |
|   |   | 15 | 0.99 | 0.99 | 0.21 | 5     | 1.25 | 1.25 | 0.27 | 7.4   | 1.5  | 1.5  | 0.32 | 10.1  | 1.75 | 1.75 | 0.37 | 13.05 | 2    | 2    | 0.43 | 16.48 |
|   | 4 | 17 | 1.32 | 1    | 0.28 | 8.14  | 1.32 | 1.25 | 0.28 | 8.14  | 1.5  | 1.5  | 0.32 | 10.15 | 1.75 | 1.75 | 0.38 | 13.11 | 2    | 2    | 0.43 | 16.55 |
|   |   | 19 | -    | -    | -    | -     | 2.1  | 1.27 | 0.45 | 17.98 | 2.09 | 1.52 | 0.45 | 17.85 | 2.08 | 1.76 | 0.45 | 17.75 | 2.08 | 2.01 | 0.45 | 17.77 |
|   |   | 20 | -    | -    | -    | -     | 2.51 | 1.27 | 0.54 | 24.48 | 2.5  | 1.52 | 0.54 | 24.3  | 2.49 | 1.77 | 0.54 | 24.12 | 2.48 | 2.02 | 0.54 | 23.99 |
|   |   | 15 | 0.81 | 0.81 | 0.14 | 1.97  | 1.1  | 1.1  | 0.19 | 3.89  | 1.36 | 1.36 | 0.23 | 5.85  | 1.61 | 1.61 | 0.28 | 7.78  | 1.87 | 1.87 | 0.32 | 9.92  |
|   | 5 | 17 | 0.85 | 0.82 | 0.15 | 2.18  | 1.1  | 1.1  | 0.19 | 3.91  | 1.37 | 1.37 | 0.23 | 5.87  | 1.62 | 1.62 | 0.28 | 7.81  | 1.87 | 1.87 | 0.32 | 9.96  |
|   |   | 19 | -    | -    | -    | -     | 1.75 | 1.13 | 0.3  | 8.91  | 1.74 | 1.38 | 0.3  | 8.85  | 1.74 | 1.62 | 0.3  | 8.84  | 1.88 | 1.87 | 0.32 | 10.03 |
|   |   | 20 | -    | -    | -    | -     | 2.17 | 1.13 | 0.37 | 12.81 | 2.16 | 1.38 | 0.37 | 12.7  | 2.15 | 1.63 | 0.37 | 12.61 | 2.14 | 1.88 | 0.37 | 12.55 |
|   |   | 15 | 0.68 | 0.68 | 0.1  | 1.14  | 0.92 | 0.92 | 0.13 | 1.77  | 1.21 | 1.21 | 0.17 | 3.18  | 1.48 | 1.48 | 0.21 | 4.92  | 1.73 | 1.73 | 0.25 | 6.43  |
|   | 6 | 17 | 0.69 | 0.69 | 0.1  | 1.14  | 0.92 | 0.92 | 0.13 | 1.78  | 1.21 | 1.21 | 0.17 | 3.21  | 1.48 | 1.48 | 0.21 | 4.94  | 1.73 | 1.73 | 0.25 | 6.45  |
|   |   | 19 | -    | -    | -    | -     | 1.37 | 0.98 | 0.2  | 4.29  | 1.37 | 1.23 | 0.2  | 4.25  | 1.48 | 1.46 | 0.21 | 4.94  | 1.74 | 1.74 | 0.25 | 6.48  |
|   |   | 20 | -    | -    | -    | -     | 1.81 | 1    | 0.26 | 6.92  | 1.8  | 1.25 | 0.26 | 6.87  | 1.79 | 1.49 | 0.26 | 6.83  | 1.8  | 1.74 | 0.26 | 6.86  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11     | 3    | 15                   | 0.87                      | 0.87 | 0.25    | 6.51  | 1.12 | 1.12 | 0.32    | 10    | 1.37 | 1.37 | 0.39    | 14.07 | 1.62 | 1.62 | 0.47    | 18.71 | 1.87 | 1.87 | 0.54    | 23.89 |
|        |      | 17                   | 1                         | 0.87 | 0.29    | 8.27  | 1.12 | 1.11 | 0.32    | 10.02 | 1.38 | 1.38 | 0.39    | 14.13 | 1.63 | 1.63 | 0.47    | 18.78 | 1.88 | 1.88 | 0.54    | 23.98 |
|        |      | 19                   | -                         | -    | -       | -     | 1.77 | 1.14 | 0.51    | 21.69 | 1.76 | 1.38 | 0.51    | 21.55 | 1.76 | 1.63 | 0.51    | 21.5  | 1.88 | 1.87 | 0.54    | 24.08 |
|        |      | 20                   | -                         | -    | -       | -     | 2.19 | 1.14 | 0.63    | 31.39 | 2.18 | 1.39 | 0.63    | 31.13 | 2.17 | 1.64 | 0.62    | 30.91 | 2.16 | 1.89 | 0.62    | 30.75 |
|        | 4    | 15                   | 0.71                      | 0.71 | 0.15    | 2.43  | 0.99 | 0.99 | 0.21    | 4.97  | 1.24 | 1.24 | 0.27    | 7.28  | 1.49 | 1.49 | 0.32    | 9.94  | 1.74 | 1.74 | 0.38    | 12.86 |
|        |      | 17                   | 0.71                      | 0.71 | 0.15    | 2.44  | 0.99 | 0.99 | 0.21    | 4.99  | 1.24 | 1.24 | 0.27    | 7.31  | 1.49 | 1.49 | 0.32    | 9.98  | 1.74 | 1.74 | 0.38    | 12.86 |
|        |      | 19                   | -                         | -    | -       | -     | 1.42 | 1    | 0.31    | 9.16  | 1.42 | 1.25 | 0.31    | 9.13  | 1.49 | 1.47 | 0.32    | 9.94  | 1.75 | 1.75 | 0.38    | 12.89 |
|        |      | 20                   | -                         | -    | -       | -     | 1.83 | 1.01 | 0.39    | 13.93 | 1.82 | 1.25 | 0.39    | 13.84 | 1.81 | 1.5  | 0.39    | 13.76 | 1.82 | 1.75 | 0.39    | 13.83 |
|        | 5    | 15                   | 0.57                      | 0.57 | 0.1     | 1.11  | 0.82 | 0.82 | 0.14    | 2.03  | 1.1  | 1.1  | 0.19    | 4.03  | 1.36 | 1.36 | 0.23    | 5.78  | 1.61 | 1.61 | 0.28    | 7.68  |
|        |      | 17                   | 0.57                      | 0.57 | 0.1     | 1.11  | 0.82 | 0.82 | 0.14    | 2.04  | 1.11 | 1.11 | 0.19    | 4.05  | 1.36 | 1.36 | 0.24    | 5.8   | 1.61 | 1.61 | 0.28    | 7.71  |
|        |      | 19                   | -                         | -    | -       | -     | 1.02 | 0.85 | 0.18    | 3.39  | 1.09 | 1.05 | 0.19    | 3.96  | 1.36 | 1.36 | 0.24    | 5.83  | 1.61 | 1.61 | 0.28    | 7.75  |
|        |      | 20                   | -                         | -    | -       | -     | 1.47 | 0.87 | 0.25    | 6.58  | 1.46 | 1.12 | 0.25    | 6.53  | 1.46 | 1.37 | 0.25    | 6.55  | 1.62 | 1.61 | 0.28    | 7.76  |
|        | 6    | 15                   | 0.47                      | 0.47 | 0.07    | 0.73  | 0.68 | 0.68 | 0.1     | 1.09  | 0.93 | 0.93 | 0.13    | 1.8   | 1.21 | 1.21 | 0.17    | 3.32  | 1.48 | 1.48 | 0.21    | 4.85  |
|        |      | 17                   | 0.47                      | 0.47 | 0.07    | 0.73  | 0.68 | 0.68 | 0.1     | 1.09  | 0.93 | 0.93 | 0.13    | 1.81  | 1.22 | 1.22 | 0.17    | 3.34  | 1.48 | 1.48 | 0.21    | 4.87  |
|        |      | 19                   | -                         | -    | -       | -     | 0.68 | 0.67 | 0.1     | 1.09  | 0.93 | 0.93 | 0.13    | 1.82  | 1.22 | 1.22 | 0.18    | 3.36  | 1.48 | 1.48 | 0.21    | 4.89  |
|        |      | 20                   | -                         | -    | -       | -     | 0.93 | 0.68 | 0.13    | 1.82  | 0.95 | 0.94 | 0.14    | 1.88  | 1.22 | 1.22 | 0.18    | 3.37  | 1.48 | 1.48 | 0.21    | 4.9   |
| 13     | 3    | 15                   | 0.61                      | 0.61 | 0.18    | 3.34  | 0.87 | 0.87 | 0.25    | 6.36  | 1.12 | 1.12 | 0.32    | 9.76  | 1.36 | 1.36 | 0.39    | 13.52 | 1.61 | 1.61 | 0.46    | 18.26 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.61 | 0.61 | 0.18 | 3.36 | 0.87 | 0.87 | 0.25 | 6.39  | 1.12 | 1.12 | 0.32 | 9.79  | 1.37 | 1.37 | 0.39 | 13.58 | 1.62 | 1.62 | 0.46 | 18.34 |
|    |   | 19 | -    | -    | -    | -    | 1.08 | 0.87 | 0.31 | 9.24  | 1.12 | 1.09 | 0.32 | 9.76  | 1.37 | 1.37 | 0.39 | 13.64 | 1.62 | 1.62 | 0.47 | 18.42 |
|    |   | 20 | -    | -    | -    | -    | 1.49 | 0.88 | 0.43 | 15.92 | 1.48 | 1.13 | 0.43 | 15.81 | 1.48 | 1.38 | 0.43 | 15.81 | 1.62 | 1.61 | 0.47 | 18.43 |
|    |   | 15 | 0.45 | 0.45 | 0.1  | 1.07 | 0.72 | 0.72 | 0.15 | 2.48  | 0.98 | 0.98 | 0.21 | 4.82  | 1.23 | 1.23 | 0.26 | 6.98  | 1.48 | 1.48 | 0.32 | 9.52  |
|    |   | 17 | 0.46 | 0.46 | 0.1  | 1.08 | 0.72 | 0.72 | 0.15 | 2.5   | 0.99 | 0.99 | 0.21 | 4.85  | 1.24 | 1.24 | 0.26 | 7.01  | 1.48 | 1.48 | 0.32 | 9.56  |
|    |   | 19 | -    | -    | -    | -    | 0.7  | 0.66 | 0.15 | 2.38  | 0.99 | 0.99 | 0.21 | 4.87  | 1.24 | 1.24 | 0.27 | 7.04  | 1.49 | 1.49 | 0.32 | 9.6   |
|    |   | 20 | -    | -    | -    | -    | 1.1  | 0.74 | 0.24 | 5.81  | 1.11 | 0.99 | 0.24 | 5.81  | 1.24 | 1.22 | 0.27 | 7.04  | 1.49 | 1.49 | 0.32 | 9.63  |
|    |   | 15 | 0.35 | 0.35 | 0.06 | 0.63 | 0.57 | 0.57 | 0.1  | 1.05  | 0.82 | 0.82 | 0.14 | 2.03  | 1.1  | 1.1  | 0.19 | 3.93  | 1.35 | 1.35 | 0.23 | 5.56  |
|    |   | 17 | 0.35 | 0.35 | 0.06 | 0.64 | 0.57 | 0.57 | 0.1  | 1.05  | 0.82 | 0.82 | 0.14 | 2.04  | 1.1  | 1.1  | 0.19 | 3.94  | 1.35 | 1.35 | 0.23 | 5.59  |
|    |   | 19 | -    | -    | -    | -    | 0.57 | 0.57 | 0.1  | 1.05  | 0.83 | 0.83 | 0.14 | 2.06  | 1.1  | 1.1  | 0.19 | 3.96  | 1.36 | 1.36 | 0.23 | 5.61  |
|    |   | 20 | -    | -    | -    | -    | 0.59 | 0.57 | 0.1  | 1.11  | 0.83 | 0.83 | 0.14 | 2.06  | 1.11 | 1.11 | 0.19 | 3.97  | 1.36 | 1.36 | 0.23 | 5.62  |
|    |   | 15 | 0.25 | 0.25 | 0.04 | 0.36 | 0.46 | 0.46 | 0.07 | 0.69  | 0.68 | 0.68 | 0.1  | 1.03  | 0.93 | 0.93 | 0.13 | 1.8   | 1.21 | 1.21 | 0.17 | 3.32  |
|    |   | 17 | 0.25 | 0.25 | 0.04 | 0.36 | 0.47 | 0.47 | 0.07 | 0.69  | 0.68 | 0.68 | 0.1  | 1.04  | 0.93 | 0.93 | 0.13 | 1.81  | 1.22 | 1.22 | 0.17 | 3.34  |
|    |   | 19 | -    | -    | -    | -    | 0.47 | 0.47 | 0.07 | 0.69  | 0.68 | 0.68 | 0.1  | 1.04  | 0.94 | 0.94 | 0.13 | 1.82  | 1.22 | 1.22 | 0.17 | 3.36  |
|    |   | 20 | -    | -    | -    | -    | 0.47 | 0.47 | 0.07 | 0.69  | 0.68 | 0.68 | 0.1  | 1.04  | 0.94 | 0.94 | 0.13 | 1.83  | 1.22 | 1.22 | 0.17 | 3.37  |
|    | 5 | 15 | 0.34 | 0.34 | 0.1  | 1.04 | 0.61 | 0.61 | 0.18 | 3.4   | 0.86 | 0.86 | 0.25 | 6.2   | 1.11 | 1.11 | 0.32 | 9.51  | 1.36 | 1.36 | 0.39 | 13.59 |
|    |   | 17 | 0.34 | 0.34 | 0.1  | 1.05 | 0.61 | 0.61 | 0.18 | 3.42  | 0.86 | 0.86 | 0.25 | 6.23  | 1.11 | 1.11 | 0.32 | 9.55  | 1.36 | 1.36 | 0.39 | 13.64 |
|    |   | 19 | -    | -    | -    | -    | 0.61 | 0.61 | 0.18 | 3.44  | 0.87 | 0.87 | 0.25 | 6.26  | 1.12 | 1.12 | 0.32 | 9.6   | 1.37 | 1.37 | 0.4  | 13.71 |
|    |   | 20 | -    | -    | -    | -    | 0.75 | 0.62 | 0.21 | 4.88  | 0.86 | 0.83 | 0.25 | 6.19  | 1.12 | 1.12 | 0.32 | 9.62  | 1.37 | 1.37 | 0.4  | 13.74 |
|    | 6 | 15 | 0.24 | 0.24 | 0.05 | 0.52 | 0.45 | 0.45 | 0.1  | 1.03  | 0.72 | 0.72 | 0.16 | 2.57  | 0.98 | 0.98 | 0.21 | 4.71  | 1.23 | 1.23 | 0.26 | 6.89  |
|    |   | 17 | 0.24 | 0.24 | 0.05 | 0.52 | 0.45 | 0.45 | 0.1  | 1.03  | 0.72 | 0.72 | 0.16 | 2.58  | 0.98 | 0.98 | 0.21 | 4.73  | 1.23 | 1.23 | 0.27 | 6.92  |
|    |   | 19 | -    | -    | -    | -    | 0.45 | 0.45 | 0.1  | 1.04  | 0.72 | 0.72 | 0.16 | 2.6   | 0.98 | 0.98 | 0.21 | 4.75  | 1.23 | 1.23 | 0.27 | 6.95  |
|    |   | 20 | -    | -    | -    | -    | 0.45 | 0.45 | 0.1  | 1.04  | 0.73 | 0.73 | 0.16 | 2.61  | 1    | 1    | 0.21 | 4.77  | 1.24 | 1.24 | 0.27 | 6.96  |
|    | 7 | 15 | 0.13 | 0.13 | 0.02 | 0.22 | 0.35 | 0.35 | 0.06 | 0.61  | 0.56 | 0.56 | 0.1  | 1.03  | 0.83 | 0.83 | 0.14 | 2.15  | 1.11 | 1.11 | 0.19 | 3.92  |
|    |   | 17 | 0.13 | 0.13 | 0.02 | 0.22 | 0.35 | 0.35 | 0.06 | 0.61  | 0.57 | 0.57 | 0.1  | 1.03  | 0.83 | 0.83 | 0.14 | 2.17  | 1.1  | 1.1  | 0.19 | 3.94  |
|    |   | 19 | -    | -    | -    | -    | 0.35 | 0.35 | 0.06 | 0.61  | 0.57 | 0.57 | 0.1  | 1.03  | 0.84 | 0.84 | 0.14 | 2.18  | 1.1  | 1.1  | 0.19 | 3.96  |
|    |   | 20 | -    | -    | -    | -    | 0.35 | 0.35 | 0.06 | 0.61  | 0.57 | 0.57 | 0.1  | 1.03  | 0.84 | 0.84 | 0.14 | 2.19  | 1.1  | 1.1  | 0.19 | 3.96  |
|    | 8 | 15 | -    | -    | -    | -    | 0.24 | 0.24 | 0.04 | 0.34  | 0.46 | 0.46 | 0.07 | 0.65  | 0.68 | 0.68 | 0.1  | 1.01  | 0.94 | 0.94 | 0.14 | 1.88  |
|    |   | 17 | -    | -    | -    | -    | 0.24 | 0.24 | 0.04 | 0.34  | 0.46 | 0.46 | 0.07 | 0.66  | 0.68 | 0.68 | 0.1  | 1.01  | 0.94 | 0.94 | 0.14 | 1.9   |
|    |   | 19 | -    | -    | -    | -    | 0.25 | 0.25 | 0.04 | 0.34  | 0.46 | 0.46 | 0.07 | 0.66  | 0.68 | 0.68 | 0.1  | 1.02  | 0.94 | 0.94 | 0.14 | 1.91  |
|    |   | 20 | -    | -    | -    | -    | 0.25 | 0.25 | 0.04 | 0.34  | 0.46 | 0.46 | 0.07 | 0.66  | 0.68 | 0.68 | 0.1  | 1.02  | 0.95 | 0.95 | 0.14 | 1.92  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 3.23                      | 2.54 | 0.92    | 38.42 | 3.22 | 2.92 | 0.92    | 38.2   | 3.3  | 3.28 | 0.94    | 39.91  | 3.7  | 3.7  | 1.06    | 49.14  | 4.08 | 4.08 | 1.17    | 57.6   |  |
|        |      | 17                   | 4.36                      | 2.56 | 1.26    | 65.66 | 4.35 | 2.94 | 1.25    | 65.22  | 4.33 | 3.33 | 1.25    | 64.8   | 4.32 | 3.71 | 1.25    | 64.41  | 4.31 | 4.1  | 1.24    | 64.14  |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.56 | 2.96 | 1.6     | 99.04  | 5.55 | 3.35 | 1.59    | 98.53  | 5.52 | 3.73 | 1.59    | 97.92  | 5.51 | 4.12 | 1.58    | 97.35  |  |
|        |      | 20                   | -                         | -    | -       | -     | 6.22 | 2.97 | 1.79    | 121.46 | 6.2  | 3.36 | 1.79    | 120.86 | 6.17 | 3.75 | 1.78    | 119.29 | 6.15 | 4.13 | 1.77    | 118.62 |  |
|        | 4    | 15                   | 2.79                      | 2.33 | 0.6     | 18.34 | 2.79 | 2.72 | 0.6     | 18.35  | 3.1  | 3.1  | 0.67    | 21.93  | 3.49 | 3.49 | 0.75    | 26.69  | 3.87 | 3.87 | 0.83    | 31.79  |  |
|        |      | 17                   | 3.91                      | 2.34 | 0.84    | 32.32 | 3.89 | 2.73 | 0.83    | 32.11  | 3.88 | 3.12 | 0.83    | 31.89  | 3.86 | 3.5  | 0.83    | 31.71  | 3.89 | 3.88 | 0.83    | 32.06  |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.11 | 2.75 | 1.1     | 51.39  | 5.09 | 3.14 | 1.09    | 51.04  | 5.07 | 3.52 | 1.09    | 50.72  | 5.06 | 3.91 | 1.08    | 50.41  |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.77 | 2.77 | 1.24    | 63.96  | 5.75 | 3.15 | 1.24    | 63.62  | 5.73 | 3.54 | 1.24    | 63.26  | 5.71 | 3.93 | 1.23    | 62.9   |  |
|        | 5    | 15                   | 2.32                      | 2.12 | 0.4     | 9.07  | 2.5  | 2.5  | 0.43    | 10.28  | 2.89 | 2.89 | 0.5     | 13.13  | 3.28 | 3.28 | 0.56    | 16.38  | 3.66 | 3.66 | 0.63    | 19.78  |  |
|        |      | 17                   | 3.45                      | 2.14 | 0.59    | 17.87 | 3.44 | 2.52 | 0.59    | 17.74  | 3.43 | 2.91 | 0.59    | 17.64  | 3.42 | 3.29 | 0.59    | 17.63  | 3.67 | 3.67 | 0.63    | 19.86  |  |
|        |      | 19                   | -                         | -    | -       | -     | 4.65 | 2.55 | 0.8     | 29.77  | 4.64 | 2.93 | 0.8     | 29.6   | 4.62 | 3.32 | 0.8     | 29.4   | 4.6  | 3.69 | 0.79    | 29.22  |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.3  | 2.56 | 0.91    | 37.22  | 5.28 | 2.94 | 0.91    | 37     | 5.26 | 3.33 | 0.91    | 36.76  | 5.24 | 3.71 | 0.9     | 36.54  |  |
|        | 6    | 15                   | 1.86                      | 1.83 | 0.27    | 4.27  | 2.29 | 2.29 | 0.33    | 6.54   | 2.68 | 2.68 | 0.38    | 8.51   | 3.07 | 3.07 | 0.44    | 10.68  | 3.46 | 3.46 | 0.5     | 13.04  |  |
|        |      | 17                   | 2.97                      | 1.93 | 0.43    | 10.09 | 2.96 | 2.31 | 0.42    | 10.02  | 2.95 | 2.69 | 0.42    | 9.98   | 3.07 | 3.05 | 0.44    | 10.7   | 3.46 | 3.46 | 0.5     | 13.09  |  |
|        |      | 19                   | -                         | -    | -       | -     | 4.16 | 2.33 | 0.59    | 17.77  | 4.14 | 2.72 | 0.59    | 17.65  | 4.13 | 3.1  | 0.59    | 17.53  | 4.12 | 3.48 | 0.59    | 17.44  |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.81 | 2.34 | 0.69    | 22.76  | 4.79 | 2.73 | 0.68    | 22.61  | 4.77 | 3.11 | 0.68    | 22.47  | 4.76 | 3.49 | 0.68    | 22.32  |  |
| 7      | 3    | 15                   | 2.35                      | 2.13 | 0.67    | 22.08 | 2.51 | 2.51 | 0.72    | 24.72  | 2.9  | 2.9  | 0.84    | 32.08  | 3.29 | 3.29 | 0.95    | 39.77  | 3.67 | 3.67 | 1.05    | 47.45  |  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |       |      |       |       |
|----|----|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|
|    |    | 17   | 3.46 | 2.15 | 0.99  | 42.93 | 3.45  | 2.53 | 0.99  | 42.62 | 3.44  | 2.91 | 0.99  | 42.35 | 3.43  | 3.29 | 0.99  | 42.27 | 3.68  | 3.68 | 1.06  | 47.65 |
|    |    | 19   | -    | -    | -     | -     | 4.67  | 2.56 | 1.35  | 73.21 | 4.65  | 2.94 | 1.35  | 72.73 | 4.64  | 3.32 | 1.34  | 72.29 | 4.62  | 3.71 | 1.34  | 71.82 |
|    |    | 20   | -    | -    | -     | -     | 5.31  | 2.56 | 1.53  | 90.56 | 5.29  | 2.95 | 1.52  | 90.03 | 5.27  | 3.33 | 1.52  | 89.46 | 5.25  | 3.72 | 1.51  | 88.9  |
|    |    | 4    | 15   | 1.92 | 1.91  | 0.42  | 9.68  | 2.31 | 2.31  | 0.5   | 13.16 | 2.69 | 2.69  | 0.58  | 16.91 | 3.08 | 3.08  | 0.66  | 21.24 | 3.46 | 3.46  | 0.74  |
|    | 17 | 2.99 | 1.94 | 0.64 | 20.21 | 2.98  | 2.32  | 0.64 | 20.07 | 2.97  | 2.7   | 0.64 | 20    | 3.08  | 3.06  | 0.66 | 21.27 | 3.47  | 3.47  | 0.75 | 26.07 |       |
|    | 19 | -    | -    | -    | -     | 4.18  | 2.34  | 0.9  | 35.95 | 4.17  | 2.72  | 0.9  | 35.72 | 4.15  | 3.11  | 0.89 | 35.49 | 4.14  | 3.49  | 0.89 | 35.28 |       |
|    | 20 | -    | -    | -    | -     | 4.84  | 2.36  | 1.05 | 46.62 | 4.82  | 2.74  | 1.04 | 46.34 | 4.8   | 3.13  | 1.04 | 46.04 | 4.78  | 3.51  | 1.03 | 45.75 |       |
|    | 5  | 15   | 1.71 | 1.71 | 0.29  | 5.36  | 2.11  | 2.11 | 0.36  | 7.65  | 2.49  | 2.49 | 0.43  | 10.1  | 2.87  | 2.87 | 0.49  | 12.83 | 3.26  | 3.26 | 0.56  | 15.88 |
|    | 17 | 2.51 | 1.73 | 0.43 | 10.2  | 2.5   | 2.11  | 0.43 | 10.15 | 2.52  | 2.51  | 0.43 | 10.32 | 2.88  | 2.88  | 0.5  | 12.88 | 3.27  | 3.27  | 0.56 | 15.94 |       |
|    | 19 | -    | -    | -    | -     | 3.7   | 2.14  | 0.64 | 19.7  | 3.68  | 2.52  | 0.63 | 19.56 | 3.8   | 2.83  | 0.65 | 36.5  | 3.66  | 3.28  | 0.63 | 19.35 |       |
|    | 20 | -    | -    | -    | -     | 4.34  | 2.15  | 0.75 | 25.9  | 4.32  | 2.53  | 0.74 | 25.73 | 4.31  | 2.91  | 0.74 | 25.55 | 4.29  | 3.29  | 0.74 | 25.39 |       |
|    | 6  | 15   | 1.43 | 1.43 | 0.2   | 2.37  | 1.89  | 1.89 | 0.27  | 4.49  | 2.28  | 2.28 | 0.33  | 6.37  | 2.67  | 2.67 | 0.38  | 8.3   | 3.06  | 3.06 | 0.44  | 10.41 |
|    | 17 | 1.98 | 1.52 | 0.28 | 4.96  | 1.98  | 1.9   | 0.28 | 4.95  | 2.29  | 2.29  | 0.33 | 6.4   | 2.68  | 2.68  | 0.38 | 8.33  | 3.06  | 3.06  | 0.44 | 10.45 |       |
|    | 19 | -    | -    | -    | -     | 3.2   | 1.93  | 0.46 | 11.23 | 3.18  | 2.31  | 0.46 | 11.15 | 3.17  | 2.69  | 0.45 | 11.09 | 3.18  | 3.08  | 0.46 | 11.16 |       |
|    | 20 | -    | -    | -    | -     | 3.84  | 1.94  | 0.55 | 15.32 | 3.82  | 2.32  | 0.55 | 15.21 | 3.8   | 2.71  | 0.55 | 15.11 | 3.79  | 3.09  | 0.54 | 15.03 |       |
|    | 9  | 3    | 15   | 1.73 | 1.73  | 0.49  | 12.79 | 2.12 | 2.12  | 0.6   | 18.03 | 2.5  | 2.5   | 0.71  | 23.98 | 2.89 | 2.89  | 0.83  | 31.1  | 3.27 | 3.27  | 0.93  |
| 17 |    |      | 2.53 | 1.74 | 0.72  | 24.47 | 2.52  | 2.13 | 0.72  | 24.33 | 2.54  | 2.52 | 0.73  | 24.62 | 2.89  | 2.89 | 0.83  | 31.22 | 3.27  | 3.27 | 0.94  | 38.16 |
| 19 |    |      | -    | -    | -     | -     | 3.72  | 2.15 | 1.07  | 48.27 | 3.71  | 2.53 | 1.07  | 47.94 | 3.69  | 2.91 | 1.07  | 47.63 | 3.68  | 3.29 | 1.06  | 47.39 |
| 20 |    |      | -    | -    | -     | -     | 4.35  | 2.15 | 1.25  | 62.7  | 4.34  | 2.54 | 1.25  | 62.58 | 4.33  | 2.92 | 1.25  | 62.55 | 4.31  | 3.3  | 1.25  | 62.39 |
| 4  |    | 15   | 1.53 | 1.53 | 0.33  | 6.36  | 1.92  | 1.92 | 0.41  | 9.33  | 2.3   | 2.3  | 0.49  | 12.64 | 2.68  | 2.68 | 0.58  | 16.53 | 3.07  | 3.07 | 0.66  | 20.86 |
|    |    | 17   | 2.04 | 1.54 | 0.44  | 10.35 | 2.04  | 1.92 | 0.44  | 10.38 | 2.3   | 2.3  | 0.49  | 12.69 | 2.69  | 2.69 | 0.58  | 16.6  | 3.07  | 3.07 | 0.66  | 20.94 |
|    |    | 19   | -    | -    | -     | -     | 3.22  | 1.94 | 0.69  | 22.53 | 3.2   | 2.32 | 0.69  | 22.37 | 3.19  | 2.7  | 0.69  | 22.25 | 3.2   | 3.09 | 0.69  | 22.34 |
|    |    | 20   | -    | -    | -     | -     | 3.85  | 1.95 | 0.83  | 30.51 | 3.83  | 2.33 | 0.82  | 30.29 | 3.82  | 2.71 | 0.82  | 30.08 | 3.8   | 3.09 | 0.82  | 29.9  |
| 5  |    | 15   | 1.29 | 1.29 | 0.22  | 2.81  | 1.71  | 1.71 | 0.29  | 5.23  | 2.09  | 2.09 | 0.36  | 7.38  | 2.48  | 2.48 | 0.43  | 9.8   | 2.86  | 2.86 | 0.49  | 12.49 |
|    |    | 17   | 1.48 | 1.32 | 0.25  | 3.91  | 1.71  | 1.7  | 0.29  | 5.25  | 2.1   | 2.1  | 0.36  | 7.41  | 2.49  | 2.49 | 0.43  | 9.83  | 2.87  | 2.87 | 0.49  | 12.54 |
|    |    | 19   | -    | -    | -     | -     | 2.7   | 1.73 | 0.46  | 11.31 | 2.69  | 2.11 | 0.46  | 11.24 | 2.69  | 2.5  | 0.46  | 11.25 | 2.87  | 2.86 | 0.49  | 12.59 |
|    |    | 20   | -    | -    | -     | -     | 3.33  | 1.74 | 0.57  | 16.19 | 3.32  | 2.13 | 0.57  | 16.08 | 3.31  | 2.51 | 0.57  | 15.97 | 3.3   | 2.88 | 0.57  | 15.91 |
| 6  |    | 15   | 1.03 | 1.03 | 0.15  | 1.31  | 1.45  | 1.45 | 0.21  | 2.48  | 1.89  | 1.89 | 0.27  | 4.51  | 2.27  | 2.27 | 0.33  | 6.23  | 2.66  | 2.66 | 0.38  | 8.09  |
|    |    | 17   | 1.03 | 1.03 | 0.15  | 1.31  | 1.46  | 1.46 | 0.21  | 2.5   | 1.89  | 1.89 | 0.27  | 4.53  | 2.28  | 2.28 | 0.33  | 6.25  | 2.67  | 2.67 | 0.38  | 8.13  |
|    |    | 19   | -    | -    | -     | -     | 2.15  | 1.52 | 0.31  | 5.68  | 2.15  | 1.9  | 0.31  | 5.67  | 2.28  | 2.24 | 0.33  | 6.23  | 2.67  | 2.67 | 0.38  | 8.16  |
|    |    | 20   | -    | -    | -     | -     | 2.8   | 1.54 | 0.4   | 8.82  | 2.78  | 1.92 | 0.4   | 8.75  | 2.78  | 2.3  | 0.4   | 8.71  | 2.8   | 2.69 | 0.4   | 8.81  |

Continued:

| (none) |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|--------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT    | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|        |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|        |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]   | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11     | 3    | 15                | 1.35                      | 1.35 | 0.38   | 8.2   | 1.72 | 1.72 | 0.49   | 12.58 | 2.11 | 2.11 | 0.6    | 17.71 | 2.49 | 2.49 | 0.71   | 23.55 | 2.87 | 2.87 | 0.83   | 30.3  |
|        |      | 17                | 1.55                      | 1.34 | 0.44   | 10.53 | 1.72 | 1.71 | 0.49   | 12.61 | 2.11 | 2.11 | 0.61   | 17.78 | 2.49 | 2.49 | 0.72   | 23.65 | 2.88 | 2.88 | 0.83   | 30.42 |
|        |      | 19                | -                         | -    | -      | -     | 2.72 | 1.74 | 0.78   | 27.62 | 2.71 | 2.12 | 0.78   | 27.39 | 2.71 | 2.5  | 0.78   | 27.34 | 2.88 | 2.86 | 0.83   | 30.52 |
|        |      | 20                | -                         | -    | -      | -     | 3.36 | 1.75 | 0.97   | 40    | 3.34 | 2.13 | 0.97   | 39.69 | 3.33 | 2.51 | 0.96   | 39.42 | 3.32 | 2.89 | 0.96   | 39.24 |
|        | 4    | 15                | 1.13                      | 1.13 | 0.24   | 3.6   | 1.52 | 1.52 | 0.33   | 6.27  | 1.91 | 1.91 | 0.41   | 9.17  | 2.29 | 2.29 | 0.49   | 12.53 | 2.67 | 2.67 | 0.57   | 16.1  |
|        |      | 17                | 1.11                      | 1.07 | 0.24   | 3.52  | 1.52 | 1.52 | 0.33   | 6.3   | 1.91 | 1.91 | 0.41   | 9.21  | 2.3  | 2.3  | 0.5    | 12.58 | 2.67 | 2.67 | 0.57   | 16.17 |
|        |      | 19                | -                         | -    | -      | -     | 2.19 | 1.54 | 0.47   | 11.65 | 2.19 | 1.92 | 0.47   | 11.64 | 2.3  | 2.27 | 0.5    | 12.62 | 2.68 | 2.68 | 0.58   | 16.24 |
|        |      | 20                | -                         | -    | -      | -     | 2.82 | 1.55 | 0.61   | 17.67 | 2.8  | 1.93 | 0.6    | 17.52 | 2.8  | 2.31 | 0.6    | 17.45 | 2.81 | 2.69 | 0.6    | 17.6  |
|        | 5    | 15                | 0.86                      | 0.86 | 0.15   | 1.31  | 1.3  | 1.3  | 0.22   | 2.98  | 1.71 | 1.71 | 0.29   | 5.17  | 2.09 | 2.09 | 0.36   | 7.28  | 2.47 | 2.47 | 0.43   | 9.67  |
|        |      | 17                | 0.86                      | 0.86 | 0.15   | 1.31  | 1.32 | 1.32 | 0.22   | 2.99  | 1.71 | 1.71 | 0.29   | 5.2   | 2.09 | 2.09 | 0.36   | 7.31  | 2.47 | 2.47 | 0.43   | 9.71  |
|        |      | 19                | -                         | -    | -      | -     | 1.63 | 1.33 | 0.28   | 4.83  | 1.7  | 1.66 | 0.29   | 5.17  | 2.1  | 2.1  | 0.36   | 7.34  | 2.48 | 2.48 | 0.43   | 9.75  |
|        |      | 20                | -                         | -    | -      | -     | 2.27 | 1.34 | 0.39   | 8.37  | 2.26 | 1.72 | 0.39   | 8.33  | 2.27 | 2.11 | 0.39   | 8.38  | 2.48 | 2.47 | 0.43   | 9.76  |
|        | 6    | 15                | 0.7                       | 0.7  | 0.1    | 0.82  | 1.03 | 1.03 | 0.15   | 1.29  | 1.47 | 1.47 | 0.21   | 2.6   | 1.88 | 1.88 | 0.27   | 4.47  | 2.26 | 2.26 | 0.32   | 6.06  |
|        |      | 17                | 0.7                       | 0.7  | 0.1    | 0.82  | 1.03 | 1.03 | 0.15   | 1.29  | 1.47 | 1.47 | 0.21   | 2.62  | 1.89 | 1.89 | 0.27   | 4.49  | 2.27 | 2.27 | 0.33   | 6.08  |
|        |      | 19                | -                         | -    | -      | -     | 1.03 | 1.03 | 0.15   | 1.29  | 1.47 | 1.47 | 0.21   | 2.64  | 1.89 | 1.89 | 0.27   | 4.51  | 2.28 | 2.28 | 0.33   | 6.11  |
|        |      | 20                | -                         | -    | -      | -     | 1.65 | 1.12 | 0.24   | 3.45  | 1.64 | 1.5  | 0.24   | 3.42  | 1.89 | 1.86 | 0.27   | 4.51  | 2.28 | 2.28 | 0.33   | 6.12  |
| 13     | 3    | 15                | 0.95                      | 0.95 | 0.27   | 4.51  | 1.33 | 1.33 | 0.38   | 8.01  | 1.71 | 1.71 | 0.49   | 12.08 | 2.09 | 2.09 | 0.6    | 17.29 | 2.47 | 2.47 | 0.71   | 22.99 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.95 | 0.95 | 0.27 | 4.53  | 1.33 | 1.33 | 0.38 | 8.04  | 1.71 | 1.71 | 0.49 | 12.13 | 2.1  | 2.1  | 0.6  | 17.36 | 2.48 | 2.48 | 0.71 | 23.08 |
|    |   | 19 | -    | -    | -    | -     | 1.67 | 1.34 | 0.48 | 11.72 | 1.72 | 1.69 | 0.49 | 12.19 | 2.11 | 2.11 | 0.6  | 17.43 | 2.48 | 2.48 | 0.71 | 23.18 |
|    |   | 20 | -    | -    | -    | -     | 2.29 | 1.35 | 0.66 | 20.1  | 2.28 | 1.73 | 0.65 | 19.97 | 2.28 | 2.11 | 0.66 | 20.02 | 2.49 | 2.47 | 0.71 | 23.22 |
|    |   | 15 | 0.69 | 0.69 | 0.15 | 1.28  | 1.13 | 1.13 | 0.24 | 3.63  | 1.51 | 1.51 | 0.32 | 6.01  | 1.89 | 1.89 | 0.41 | 8.79  | 2.27 | 2.27 | 0.49 | 11.98 |
|    |   | 17 | 0.69 | 0.69 | 0.15 | 1.28  | 1.13 | 1.13 | 0.24 | 3.65  | 1.51 | 1.51 | 0.32 | 6.03  | 1.9  | 1.9  | 0.41 | 8.82  | 2.28 | 2.28 | 0.49 | 12.03 |
|    |   | 19 | -    | -    | -    | -     | 1.11 | 1.08 | 0.24 | 3.54  | 1.52 | 1.52 | 0.33 | 6.06  | 1.9  | 1.9  | 0.41 | 8.86  | 2.28 | 2.28 | 0.49 | 12.09 |
|    |   | 20 | -    | -    | -    | -     | 1.71 | 1.15 | 0.37 | 7.43  | 1.71 | 1.52 | 0.37 | 7.45  | 1.9  | 1.88 | 0.41 | 8.87  | 2.29 | 2.29 | 0.49 | 12.11 |
|    |   | 15 | 0.53 | 0.53 | 0.09 | 0.71  | 0.86 | 0.86 | 0.15 | 1.26  | 1.3  | 1.3  | 0.22 | 3     | 1.69 | 1.69 | 0.29 | 4.98  | 2.07 | 2.07 | 0.36 | 7     |
|    |   | 17 | 0.53 | 0.53 | 0.09 | 0.71  | 0.86 | 0.86 | 0.15 | 1.26  | 1.3  | 1.3  | 0.22 | 3.02  | 1.7  | 1.7  | 0.29 | 5     | 2.08 | 2.08 | 0.36 | 7.03  |
|    |   | 19 | -    | -    | -    | -     | 0.86 | 0.86 | 0.15 | 1.27  | 1.31 | 1.31 | 0.22 | 3.04  | 1.7  | 1.7  | 0.29 | 5.01  | 2.09 | 2.09 | 0.36 | 7.06  |
|    |   | 20 | -    | -    | -    | -     | 0.9  | 0.88 | 0.15 | 1.37  | 1.3  | 1.29 | 0.22 | 3.04  | 1.71 | 1.71 | 0.29 | 5.04  | 2.09 | 2.09 | 0.36 | 7.08  |
|    |   | 15 | 0.37 | 0.37 | 0.05 | 0.4   | 0.7  | 0.7  | 0.1  | 0.77  | 1.03 | 1.03 | 0.15 | 1.25  | 1.47 | 1.47 | 0.21 | 2.64  | 1.87 | 1.87 | 0.27 | 4.32  |
|    |   | 17 | 0.37 | 0.37 | 0.05 | 0.41  | 0.7  | 0.7  | 0.1  | 0.77  | 1.03 | 1.03 | 0.15 | 1.26  | 1.48 | 1.48 | 0.21 | 2.66  | 1.88 | 1.88 | 0.27 | 4.34  |
|    |   | 19 | -    | -    | -    | -     | 0.7  | 0.7  | 0.1  | 0.77  | 1.04 | 1.04 | 0.15 | 1.26  | 1.48 | 1.48 | 0.21 | 2.68  | 1.88 | 1.88 | 0.27 | 4.36  |
|    |   | 20 | -    | -    | -    | -     | 0.7  | 0.7  | 0.1  | 0.77  | 1.04 | 1.04 | 0.15 | 1.27  | 1.48 | 1.48 | 0.21 | 2.69  | 1.89 | 1.89 | 0.27 | 4.37  |
|    | 5 | 15 | 0.52 | 0.52 | 0.15 | 1.27  | 0.94 | 0.94 | 0.27 | 4.4   | 1.32 | 1.32 | 0.38 | 7.81  | 1.7  | 1.7  | 0.49 | 11.97 | 2.08 | 2.08 | 0.6  | 17.08 |
|    |   | 17 | 0.52 | 0.52 | 0.15 | 1.27  | 0.95 | 0.95 | 0.27 | 4.42  | 1.33 | 1.33 | 0.38 | 7.84  | 1.71 | 1.71 | 0.49 | 12.02 | 2.09 | 2.09 | 0.6  | 17.15 |
|    |   | 19 | -    | -    | -    | -     | 0.98 | 0.98 | 0.27 | 4.45  | 1.33 | 1.33 | 0.38 | 7.87  | 1.72 | 1.72 | 0.5  | 12.27 | 2.1  | 2.1  | 0.61 | 17.23 |
|    |   | 20 | -    | -    | -    | -     | 1.16 | 0.95 | 0.33 | 6.25  | 1.32 | 1.27 | 0.38 | 7.79  | 1.72 | 1.72 | 0.5  | 12.3  | 2.09 | 2.09 | 0.61 | 17.27 |
|    | 6 | 15 | 0.36 | 0.36 | 0.08 | 0.58  | 0.69 | 0.69 | 0.15 | 1.27  | 1.1  | 1.1  | 0.24 | 3.63  | 1.5  | 1.5  | 0.32 | 5.94  | 1.89 | 1.89 | 0.41 | 8.77  |
|    |   | 17 | 0.36 | 0.36 | 0.08 | 0.58  | 0.69 | 0.69 | 0.15 | 1.27  | 1.13 | 1.13 | 0.24 | 3.64  | 1.51 | 1.51 | 0.33 | 5.96  | 1.89 | 1.89 | 0.41 | 8.81  |
|    |   | 19 | -    | -    | -    | -     | 0.69 | 0.69 | 0.15 | 1.28  | 1.13 | 1.13 | 0.24 | 3.65  | 1.51 | 1.51 | 0.33 | 5.99  | 1.9  | 1.9  | 0.41 | 8.85  |
|    |   | 20 | -    | -    | -    | -     | 0.7  | 0.7  | 0.15 | 1.28  | 1.13 | 1.13 | 0.24 | 3.66  | 1.52 | 1.52 | 0.33 | 6     | 1.9  | 1.9  | 0.41 | 8.87  |
|    | 7 | 15 | 0.19 | 0.02 | 0    | -0.02 | 0.53 | 0.53 | 0.09 | 0.68  | 0.87 | 0.87 | 0.15 | 1.28  | 1.3  | 1.3  | 0.23 | 3.14  | 1.69 | 1.69 | 0.29 | 4.94  |
|    |   | 17 | 0.19 | 0.19 | 0.03 | 0.25  | 0.53 | 0.53 | 0.09 | 0.68  | 0.87 | 0.87 | 0.15 | 1.29  | 1.31 | 1.31 | 0.23 | 3.16  | 1.69 | 1.69 | 0.29 | 4.96  |
|    |   | 19 | -    | -    | -    | -     | 0.53 | 0.53 | 0.09 | 0.68  | 0.87 | 0.87 | 0.15 | 1.29  | 1.31 | 1.31 | 0.23 | 3.18  | 1.7  | 1.7  | 0.29 | 4.99  |
|    |   | 20 | -    | -    | -    | -     | 0.53 | 0.53 | 0.09 | 0.68  | 0.87 | 0.87 | 0.15 | 1.3   | 1.31 | 1.31 | 0.23 | 3.19  | 1.7  | 1.7  | 0.29 | 5     |
|    | 8 | 15 | -    | -    | -    | -     | 0.37 | 0.37 | 0.05 | 0.39  | 0.69 | 0.69 | 0.1  | 0.73  | 1.04 | 1.04 | 0.15 | 1.28  | 1.48 | 1.48 | 0.21 | 2.77  |
|    |   | 17 | -    | -    | -    | -     | 0.37 | 0.37 | 0.05 | 0.39  | 0.7  | 0.7  | 0.1  | 0.73  | 1.04 | 1.04 | 0.15 | 1.28  | 1.48 | 1.48 | 0.21 | 2.79  |
|    |   | 19 | -    | -    | -    | -     | 0.37 | 0.37 | 0.05 | 0.39  | 0.7  | 0.7  | 0.1  | 0.73  | 1.05 | 1.05 | 0.15 | 1.29  | 1.49 | 1.49 | 0.21 | 2.81  |
|    |   | 20 | -    | -    | -    | -     | 0.37 | 0.37 | 0.05 | 0.39  | 0.7  | 0.7  | 0.1  | 0.74  | 1.05 | 1.05 | 0.15 | 1.29  | 1.49 | 1.49 | 0.21 | 2.82  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    ΔT: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 4.13                      | 3.25 | 1.18    | 58.99 | 4.12 | 3.74 | 1.18    | 58.61  | 4.24 | 4.23 | 1.22    | 62.45  | 4.73 | 4.73 | 1.37    | 75.66  | 5.23 | 5.23 | 1.51    | 90.19  |  |
|        |      | 17                   | 5.58                      | 3.27 | 1.6     | 99.6  | 5.56 | 3.76 | 1.6     | 99     | 5.54 | 4.26 | 1.59    | 98.36  | 5.51 | 4.75 | 1.58    | 97.58  | 5.5  | 5.24 | 1.58    | 97.15  |  |
|        |      | 19                   | -                         | -    | -       | -     | 7.12 | 3.79 | 2.05    | 153.43 | 7.1  | 4.28 | 2.04    | 152.65 | 7.08 | 4.78 | 2.04    | 151.89 | 7.05 | 5.27 | 2.03    | 150.94 |  |
|        |      | 20                   | -                         | -    | -       | -     | 7.95 | 3.8  | 2.29    | 186.04 | 7.93 | 4.3  | 2.28    | 185.1  | 7.9  | 4.79 | 2.28    | 184.16 | 7.88 | 5.29 | 2.27    | 183.28 |  |
|        | 4    | 15                   | 3.56                      | 2.98 | 0.76    | 27.56 | 3.58 | 3.48 | 0.77    | 27.8   | 3.97 | 3.97 | 0.85    | 33.29  | 4.47 | 4.47 | 0.96    | 40.76  | 4.96 | 4.96 | 1.06    | 48.81  |  |
|        |      | 17                   | 5.01                      | 3    | 1.07    | 49.65 | 4.99 | 3.5  | 1.07    | 49.28  | 4.96 | 3.99 | 1.06    | 48.89  | 4.95 | 4.48 | 1.06    | 48.62  | 5.01 | 4.98 | 1.07    | 49.64  |  |
|        |      | 19                   | -                         | -    | -       | -     | 6.54 | 3.52 | 1.41    | 79.05  | 6.52 | 4.01 | 1.4     | 78.6   | 6.51 | 4.51 | 1.4     | 78.78  | 6.49 | 5    | 1.4     | 78.55  |  |
|        |      | 20                   | -                         | -    | -       | -     | 7.38 | 3.54 | 1.6     | 98.57  | 7.36 | 4.03 | 1.59    | 98.06  | 7.34 | 4.53 | 1.59    | 97.55  | 7.32 | 5.02 | 1.58    | 97.04  |  |
|        | 5    | 15                   | 2.98                      | 2.71 | 0.51    | 13.86 | 3.21 | 3.21 | 0.55    | 15.85  | 3.71 | 3.71 | 0.64    | 20.24  | 4.2  | 4.2  | 0.72    | 24.83  | 4.7  | 4.7  | 0.81    | 30.32  |  |
|        |      | 17                   | 4.42                      | 2.74 | 0.76    | 27.04 | 4.39 | 3.23 | 0.75    | 26.81  | 4.38 | 3.72 | 0.75    | 26.62  | 4.39 | 4.22 | 0.75    | 26.78  | 4.71 | 4.71 | 0.81    | 30.43  |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.95 | 3.25 | 1.02    | 45.21  | 5.93 | 3.75 | 1.02    | 44.9   | 5.9  | 4.24 | 1.01    | 44.59  | 5.88 | 4.73 | 1.01    | 44.27  |  |
|        |      | 20                   | -                         | -    | -       | -     | 6.79 | 3.27 | 1.17    | 57.27  | 6.77 | 3.77 | 1.17    | 56.95  | 6.75 | 4.26 | 1.16    | 56.61  | 6.72 | 4.75 | 1.16    | 55.95  |  |
|        | 6    | 15                   | 2.45                      | 2.44 | 0.35    | 7.31  | 2.95 | 2.95 | 0.42    | 9.98   | 3.44 | 3.44 | 0.49    | 13     | 3.93 | 3.93 | 0.56    | 16.18  | 4.43 | 4.43 | 0.63    | 19.81  |  |
|        |      | 17                   | 3.81                      | 2.47 | 0.55    | 15.4  | 3.79 | 2.96 | 0.54    | 15.27  | 3.79 | 3.46 | 0.54    | 15.27  | 3.96 | 3.95 | 0.57    | 16.34  | 4.44 | 4.44 | 0.63    | 19.88  |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.34 | 2.99 | 0.76    | 27.29  | 5.32 | 3.48 | 0.76    | 27.08  | 5.3  | 3.97 | 0.76    | 26.87  | 5.28 | 4.46 | 0.75    | 26.7   |  |
|        |      | 20                   | -                         | -    | -       | -     | 6.17 | 3    | 0.88    | 35.08  | 6.16 | 3.5  | 0.88    | 35.02  | 6.13 | 3.99 | 0.88    | 34.79  | 6.11 | 4.48 | 0.88    | 34.53  |  |
| 7      | 3    | 15                   | 3.03                      | 2.74 | 0.88    | 34.54 | 3.23 | 3.22 | 0.93    | 38.53  | 3.72 | 3.72 | 1.07    | 48.69  | 4.21 | 4.21 | 1.21    | 60.44  | 4.71 | 4.71 | 1.36    | 73.42  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 4.45 | 2.75 | 1.29 | 67    | 4.43 | 3.25 | 1.28 | 66.45  | 4.41 | 3.74 | 1.27 | 65.93  | 4.41 | 4.23 | 1.27 | 65.88  | 4.72 | 4.72 | 1.36 | 73.52  |
|   |   | 19 | -    | -    | -    | -     | 5.98 | 3.27 | 1.73 | 111.98 | 5.96 | 3.76 | 1.72 | 111.33 | 5.94 | 4.25 | 1.72 | 110.87 | 5.92 | 4.75 | 1.72 | 110.92 |
|   |   | 20 | -    | -    | -    | -     | 6.8  | 3.28 | 1.97 | 140.94 | 6.79 | 3.77 | 1.97 | 140.4  | 6.77 | 4.27 | 1.97 | 140.38 | 6.75 | 4.76 | 1.97 | 140.35 |
|   |   | 15 | 2.5  | 2.49 | 0.54 | 15.06 | 2.96 | 2.96 | 0.64 | 19.92  | 3.46 | 3.46 | 0.74 | 25.94  | 3.96 | 3.96 | 0.86 | 33     | 4.45 | 4.45 | 0.96 | 40.4   |
|   |   | 17 | 3.86 | 2.49 | 0.83 | 31.55 | 3.84 | 2.98 | 0.83 | 31.27  | 3.83 | 3.48 | 0.83 | 31.16  | 3.98 | 3.98 | 0.86 | 33.29  | 4.46 | 4.46 | 0.96 | 40.55  |
|   |   | 19 | -    | -    | -    | -     | 5.37 | 3    | 1.16 | 55.57  | 5.35 | 3.49 | 1.15 | 55.14  | 5.33 | 3.98 | 1.15 | 54.71  | 5.3  | 4.47 | 1.14 | 54.29  |
|   |   | 20 | -    | -    | -    | -     | 6.2  | 3.01 | 1.34 | 71.65  | 6.18 | 3.51 | 1.34 | 71.22  | 6.16 | 4    | 1.33 | 70.75  | 6.13 | 4.49 | 1.33 | 70.24  |
|   |   | 15 | 2.21 | 2.21 | 0.38 | 8.28  | 2.7  | 2.7  | 0.46 | 11.56  | 3.2  | 3.2  | 0.55 | 15.4   | 3.69 | 3.69 | 0.63 | 19.67  | 4.18 | 4.18 | 0.72 | 24.36  |
|   |   | 17 | 3.21 | 2.22 | 0.55 | 15.52 | 3.2  | 2.71 | 0.55 | 15.44  | 3.28 | 3.22 | 0.56 | 16.06  | 3.7  | 3.7  | 0.64 | 19.75  | 4.19 | 4.19 | 0.72 | 24.45  |
|   |   | 19 | -    | -    | -    | -     | 4.76 | 2.74 | 0.82 | 30.63  | 4.74 | 3.23 | 0.82 | 30.37  | 4.73 | 3.54 | 0.81 | 53     | 4.71 | 4.21 | 0.81 | 30.03  |
|   |   | 20 | -    | -    | -    | -     | 5.57 | 2.75 | 0.96 | 39.87  | 5.55 | 3.24 | 0.95 | 39.59  | 5.52 | 3.73 | 0.95 | 39.29  | 5.5  | 4.22 | 0.95 | 38.99  |
|   |   | 15 | 1.92 | 1.92 | 0.27 | 4.65  | 2.44 | 2.44 | 0.35 | 7.13   | 2.94 | 2.94 | 0.42 | 9.77   | 3.43 | 3.43 | 0.49 | 12.65  | 3.93 | 3.93 | 0.56 | 15.96  |
|   |   | 17 | 2.56 | 1.95 | 0.37 | 7.73  | 2.59 | 2.45 | 0.37 | 7.88   | 2.94 | 2.94 | 0.42 | 9.8    | 3.44 | 3.44 | 0.49 | 12.7   | 3.93 | 3.93 | 0.56 | 16.02  |
|   |   | 19 | -    | -    | -    | -     | 4.1  | 2.48 | 0.59 | 17.2   | 4.08 | 2.97 | 0.59 | 17.06  | 4.07 | 3.45 | 0.58 | 16.98  | 4.13 | 3.96 | 0.59 | 17.43  |
|   |   | 20 | -    | -    | -    | -     | 4.93 | 2.49 | 0.71 | 23.63  | 4.91 | 2.98 | 0.71 | 23.44  | 4.89 | 3.47 | 0.7  | 23.25  | 4.87 | 3.96 | 0.7  | 23.1   |
|   | 5 | 15 | 2.22 | 2.22 | 0.64 | 19.63 | 2.72 | 2.72 | 0.78 | 28.13  | 3.21 | 3.21 | 0.92 | 36.92  | 3.71 | 3.71 | 1.07 | 47.94  | 4.19 | 4.19 | 1.2  | 58.65  |
|   |   | 17 | 3.25 | 2.24 | 0.93 | 37.65 | 3.23 | 2.73 | 0.93 | 37.38  | 3.28 | 3.23 | 0.94 | 38.22  | 3.71 | 3.71 | 1.07 | 48.11  | 4.2  | 4.2  | 1.2  | 58.85  |
|   |   | 19 | -    | -    | -    | -     | 4.78 | 2.75 | 1.38 | 74.81  | 4.76 | 3.24 | 1.38 | 74.14  | 4.74 | 3.73 | 1.37 | 73.53  | 4.71 | 4.21 | 1.35 | 71.91  |
|   |   | 20 | -    | -    | -    | -     | 5.59 | 2.76 | 1.61 | 97.21  | 5.57 | 3.25 | 1.6  | 96.53  | 5.54 | 3.74 | 1.59 | 95.82  | 5.52 | 4.23 | 1.59 | 95.13  |
|   | 6 | 15 | 1.97 | 1.97 | 0.42 | 9.76  | 2.46 | 2.46 | 0.53 | 14.21  | 2.96 | 2.96 | 0.64 | 19.63  | 3.45 | 3.45 | 0.74 | 25.52  | 3.93 | 3.93 | 0.84 | 31.73  |
|   |   | 17 | 2.62 | 1.98 | 0.56 | 15.85 | 2.64 | 2.47 | 0.57 | 16.04  | 2.96 | 2.96 | 0.64 | 19.7   | 3.45 | 3.45 | 0.75 | 25.62  | 3.94 | 3.94 | 0.85 | 31.85  |
|   |   | 19 | -    | -    | -    | -     | 4.13 | 2.48 | 0.89 | 34.5   | 4.11 | 2.98 | 0.88 | 34.19  | 4.09 | 3.46 | 0.88 | 33.99  | 4.12 | 3.96 | 0.88 | 34.38  |
|   |   | 20 | -    | -    | -    | -     | 4.95 | 2.5  | 1.06 | 47.15  | 4.93 | 2.99 | 1.06 | 46.8   | 4.91 | 3.48 | 1.06 | 46.7   | 4.89 | 3.97 | 1.06 | 46.72  |
|   | 7 | 15 | 1.69 | 1.69 | 0.29 | 5.17  | 2.2  | 2.2  | 0.38 | 8.02   | 2.7  | 2.7  | 0.46 | 11.31  | 3.19 | 3.19 | 0.55 | 15.03  | 3.68 | 3.68 | 0.63 | 19.18  |
|   |   | 17 | 1.94 | 1.71 | 0.33 | 6.51  | 2.2  | 2.19 | 0.38 | 8.05   | 2.7  | 2.7  | 0.46 | 11.35  | 3.2  | 3.2  | 0.55 | 15.09  | 3.69 | 3.69 | 0.63 | 19.26  |
|   |   | 19 | -    | -    | -    | -     | 3.47 | 2.22 | 0.6  | 17.34  | 3.45 | 2.71 | 0.59 | 17.22  | 3.47 | 3.21 | 0.6  | 17.37  | 3.71 | 3.7  | 0.64 | 19.45  |
|   |   | 20 | -    | -    | -    | -     | 4.29 | 2.24 | 0.74 | 24.93  | 4.26 | 2.73 | 0.73 | 24.7   | 4.24 | 3.22 | 0.73 | 24.5   | 4.24 | 3.7  | 0.73 | 24.44  |
|   | 8 | 15 | 1.3  | 1.3  | 0.19 | 1.96  | 1.93 | 1.93 | 0.28 | 4.71   | 2.44 | 2.44 | 0.35 | 6.99   | 2.94 | 2.94 | 0.42 | 9.56   | 3.42 | 3.42 | 0.49 | 12.45  |
|   |   | 17 | 1.3  | 1.3  | 0.19 | 1.97  | 1.93 | 1.93 | 0.28 | 4.73   | 2.44 | 2.44 | 0.35 | 7.02   | 2.94 | 2.94 | 0.42 | 9.6    | 3.43 | 3.43 | 0.49 | 12.5   |
|   |   | 19 | -    | -    | -    | -     | 2.78 | 1.96 | 0.4  | 8.73   | 2.79 | 2.45 | 0.4  | 8.78   | 2.99 | 2.96 | 0.43 | 9.86   | 3.44 | 3.44 | 0.49 | 12.55  |
|   |   | 20 | -    | -    | -    | -     | 3.59 | 1.97 | 0.51 | 13.4   | 3.57 | 2.46 | 0.51 | 13.29  | 3.56 | 2.95 | 0.51 | 13.24  | 3.63 | 3.46 | 0.52 | 13.72  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11     | 3    | 15                   | 1.72                      | 1.72 | 0.49    | 12.58 | 2.22 | 2.22 | 0.64    | 19.34 | 2.71 | 2.71 | 0.78    | 27.38 | 3.2  | 3.2  | 0.92    | 36.58 | 3.68 | 3.68 | 1.06    | 46.44 |  |
|        |      | 17                   | 2                         | 1.73 | 0.57    | 16.16 | 2.22 | 2.2  | 0.64    | 19.39 | 2.71 | 2.71 | 0.78    | 27.5  | 3.2  | 3.2  | 0.92    | 36.72 | 3.69 | 3.69 | 1.06    | 46.62 |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.49 | 2.23 | 1.01    | 42.52 | 3.48 | 2.73 | 1.01    | 42.59 | 3.48 | 3.21 | 1.01    | 42.56 | 3.7  | 3.69 | 1.06    | 46.8  |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.3  | 2.24 | 1.24    | 60.99 | 4.28 | 2.73 | 1.23    | 60.42 | 4.26 | 3.22 | 1.23    | 59.88 | 4.25 | 3.71 | 1.22    | 59.55 |  |
|        | 4    | 15                   | 1.46                      | 1.46 | 0.32    | 5.87  | 1.96 | 1.96 | 0.42    | 9.63  | 2.45 | 2.45 | 0.53    | 13.96 | 2.94 | 2.94 | 0.63    | 19.07 | 3.43 | 3.43 | 0.74    | 24.81 |  |
|        |      | 17                   | 1.46                      | 1.43 | 0.31    | 5.85  | 1.96 | 1.96 | 0.42    | 9.67  | 2.46 | 2.46 | 0.53    | 14.01 | 2.95 | 2.95 | 0.63    | 19.14 | 3.44 | 3.44 | 0.74    | 24.9  |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.81 | 1.97 | 0.61    | 17.65 | 2.81 | 2.46 | 0.61    | 17.67 | 2.98 | 2.97 | 0.64    | 19.53 | 3.45 | 3.45 | 0.74    | 25    |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.63 | 1.99 | 0.78    | 27.32 | 3.61 | 2.48 | 0.78    | 27.04 | 3.59 | 2.96 | 0.77    | 26.87 | 3.63 | 3.46 | 0.78    | 27.37 |  |
|        | 5    | 15                   | 1.11                      | 1.11 | 0.19    | 2.08  | 1.7  | 1.7  | 0.29    | 5.15  | 2.2  | 2.2  | 0.38    | 7.95  | 2.69 | 2.69 | 0.46    | 11.19 | 3.18 | 3.18 | 0.55    | 14.89 |  |
|        |      | 17                   | 1.11                      | 1.11 | 0.19    | 2.09  | 1.7  | 1.7  | 0.29    | 5.17  | 2.2  | 2.2  | 0.38    | 7.97  | 2.7  | 2.7  | 0.47    | 11.23 | 3.19 | 3.19 | 0.55    | 14.94 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.11 | 1.71 | 0.36    | 7.4   | 2.25 | 2.23 | 0.39    | 8.3   | 2.7  | 2.7  | 0.47    | 11.28 | 3.19 | 3.19 | 0.55    | 15.01 |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.9  | 1.72 | 0.5     | 12.66 | 2.89 | 2.21 | 0.5     | 12.58 | 2.93 | 2.71 | 0.5     | 12.86 | 3.21 | 3.21 | 0.56    | 15.17 |  |
|        | 6    | 15                   | 0.84                      | 0.84 | 0.12    | 0.98  | 1.34 | 1.34 | 0.19    | 2.11  | 1.93 | 1.93 | 0.28    | 4.68  | 2.42 | 2.42 | 0.35    | 6.82  | 2.92 | 2.92 | 0.42    | 9.32  |  |
|        |      | 17                   | 0.84                      | 0.84 | 0.12    | 0.99  | 1.34 | 1.34 | 0.19    | 2.12  | 1.93 | 1.93 | 0.28    | 4.7   | 2.43 | 2.43 | 0.35    | 6.85  | 2.92 | 2.92 | 0.42    | 9.35  |  |
|        |      | 19                   | -                         | -    | -       | -     | 1.33 | 1.32 | 0.19    | 2.11  | 1.94 | 1.94 | 0.28    | 4.72  | 2.44 | 2.44 | 0.35    | 6.88  | 2.93 | 2.93 | 0.42    | 9.39  |  |
|        |      | 20                   | -                         | -    | -       | -     | 2.15 | 1.45 | 0.31    | 5.56  | 2.17 | 1.95 | 0.31    | 5.67  | 2.46 | 2.46 | 0.35    | 6.98  | 2.93 | 2.93 | 0.42    | 9.41  |  |
| 13     | 3    | 15                   | 1.22                      | 1.22 | 0.35    | 6.93  | 1.71 | 1.71 | 0.49    | 12.11 | 2.21 | 2.21 | 0.63    | 18.93 | 2.69 | 2.69 | 0.77    | 26.47 | 3.18 | 3.18 | 0.91    | 35.05 |  |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.22 | 1.22 | 0.35 | 6.95 | 1.7  | 1.7  | 0.49 | 12.17 | 2.21 | 2.21 | 0.64 | 19    | 2.7  | 2.7  | 0.77 | 26.43 | 3.18 | 3.18 | 0.91 | 35.18 |
|    |   | 19 | -    | -    | -    | -    | 2.15 | 1.73 | 0.62 | 18.08 | 2.25 | 2.24 | 0.65 | 19.52 | 2.7  | 2.7  | 0.77 | 26.5  | 3.19 | 3.19 | 0.91 | 35.33 |
|    |   | 20 | -    | -    | -    | -    | 2.94 | 1.73 | 0.84 | 30.78 | 2.92 | 2.22 | 0.84 | 30.53 | 2.94 | 2.71 | 0.84 | 30.76 | 3.2  | 3.18 | 0.91 | 35.4  |
|    |   | 15 | 0.9  | 0.9  | 0.19 | 2.15 | 1.45 | 1.45 | 0.31 | 5.63  | 1.95 | 1.95 | 0.42 | 9.25  | 2.44 | 2.44 | 0.52 | 13.54 | 2.93 | 2.93 | 0.63 | 18.68 |
|    |   | 17 | 0.9  | 0.9  | 0.19 | 2.16 | 1.46 | 1.46 | 0.31 | 5.65  | 1.95 | 1.95 | 0.42 | 9.28  | 2.45 | 2.45 | 0.52 | 13.59 | 2.94 | 2.94 | 0.63 | 18.75 |
|    |   | 19 | -    | -    | -    | -    | 1.49 | 1.48 | 0.32 | 5.87  | 1.96 | 1.96 | 0.42 | 9.32  | 2.45 | 2.45 | 0.53 | 13.65 | 2.94 | 2.94 | 0.63 | 18.83 |
|    |   | 20 | -    | -    | -    | -    | 2.21 | 1.47 | 0.47 | 11.43 | 2.22 | 1.96 | 0.48 | 11.57 | 2.47 | 2.47 | 0.53 | 13.83 | 2.95 | 2.95 | 0.63 | 18.87 |
|    |   | 15 | 0.63 | 0.63 | 0.11 | 0.85 | 1.13 | 1.13 | 0.19 | 2.15  | 1.69 | 1.69 | 0.29 | 4.98  | 2.19 | 2.19 | 0.37 | 7.66  | 2.68 | 2.68 | 0.46 | 10.79 |
|    |   | 17 | 0.63 | 0.63 | 0.11 | 0.86 | 1.13 | 1.13 | 0.19 | 2.16  | 1.7  | 1.7  | 0.29 | 5     | 2.19 | 2.19 | 0.38 | 7.69  | 2.68 | 2.68 | 0.46 | 10.83 |
|    |   | 19 | -    | -    | -    | -    | 1.14 | 1.14 | 0.19 | 2.18  | 1.71 | 1.71 | 0.29 | 5.02  | 2.2  | 2.2  | 0.38 | 7.72  | 2.69 | 2.69 | 0.46 | 10.87 |
|    |   | 20 | -    | -    | -    | -    | 1.42 | 1.2  | 0.24 | 3.65  | 1.71 | 1.69 | 0.29 | 5.06  | 2.2  | 2.2  | 0.38 | 7.74  | 2.69 | 2.69 | 0.46 | 10.9  |
|    |   | 15 | 0.45 | 0.45 | 0.06 | 0.5  | 0.83 | 0.83 | 0.12 | 0.93  | 1.37 | 1.37 | 0.2  | 2.21  | 1.93 | 1.93 | 0.28 | 4.54  | 2.42 | 2.42 | 0.35 | 6.66  |
|    |   | 17 | 0.46 | 0.46 | 0.07 | 0.5  | 0.83 | 0.83 | 0.12 | 0.93  | 1.37 | 1.37 | 0.2  | 2.22  | 1.94 | 1.94 | 0.28 | 4.55  | 2.43 | 2.43 | 0.35 | 6.68  |
|    |   | 19 | -    | -    | -    | -    | 0.84 | 0.84 | 0.12 | 0.93  | 1.37 | 1.37 | 0.2  | 2.24  | 1.94 | 1.94 | 0.28 | 4.57  | 2.44 | 2.44 | 0.35 | 6.71  |
|    |   | 20 | -    | -    | -    | -    | 0.84 | 0.84 | 0.12 | 0.93  | 1.38 | 1.38 | 0.2  | 2.25  | 1.94 | 1.94 | 0.28 | 4.58  | 2.43 | 2.43 | 0.35 | 6.72  |
|    | 3 | 15 | 0.69 | 0.69 | 0.2  | 2.25 | 1.22 | 1.22 | 0.35 | 6.77  | 1.71 | 1.71 | 0.49 | 12.04 | 2.2  | 2.2  | 0.64 | 18.74 | 2.68 | 2.68 | 0.77 | 26.03 |
|    |   | 17 | 0.69 | 0.69 | 0.2  | 2.26 | 1.22 | 1.22 | 0.35 | 6.8   | 1.71 | 1.71 | 0.49 | 12.08 | 2.2  | 2.2  | 0.64 | 18.82 | 2.69 | 2.69 | 0.78 | 26.47 |
|    |   | 19 | -    | -    | -    | -    | 1.22 | 1.22 | 0.35 | 6.83  | 1.72 | 1.72 | 0.5  | 12.35 | 2.21 | 2.21 | 0.64 | 18.89 | 2.69 | 2.69 | 0.78 | 26.52 |
|    |   | 20 | -    | -    | -    | -    | 1.5  | 1.23 | 0.43 | 9.65  | 1.73 | 1.7  | 0.5  | 12.4  | 2.21 | 2.21 | 0.64 | 18.93 | 2.7  | 2.7  | 0.78 | 26.56 |
|    | 4 | 15 | 0.43 | 0.43 | 0.09 | 0.7  | 0.92 | 0.92 | 0.2  | 2.3   | 1.45 | 1.45 | 0.31 | 5.6   | 1.95 | 1.95 | 0.42 | 9.27  | 2.43 | 2.43 | 0.53 | 13.53 |
|    |   | 17 | 0.43 | 0.43 | 0.09 | 0.71 | 0.92 | 0.92 | 0.2  | 2.32  | 1.46 | 1.46 | 0.31 | 5.62  | 1.96 | 1.96 | 0.42 | 9.3   | 2.44 | 2.44 | 0.53 | 13.58 |
|    |   | 19 | -    | -    | -    | -    | 0.93 | 0.93 | 0.2  | 2.34  | 1.46 | 1.46 | 0.31 | 5.64  | 1.96 | 1.96 | 0.42 | 9.34  | 2.44 | 2.44 | 0.53 | 13.63 |
|    |   | 20 | -    | -    | -    | -    | 0.93 | 0.92 | 0.2  | 2.33  | 1.46 | 1.46 | 0.32 | 5.66  | 1.96 | 1.96 | 0.42 | 9.36  | 2.46 | 2.46 | 0.53 | 13.66 |
|    | 5 | 15 | 0.24 | 0.24 | 0.04 | 0.31 | 0.63 | 0.63 | 0.11 | 0.82  | 1.16 | 1.16 | 0.2  | 2.39  | 1.7  | 1.7  | 0.29 | 4.97  | 2.18 | 2.18 | 0.38 | 7.62  |
|    |   | 17 | 0.24 | 0.24 | 0.04 | 0.31 | 0.63 | 0.63 | 0.11 | 0.82  | 1.17 | 1.17 | 0.2  | 2.41  | 1.69 | 1.69 | 0.29 | 4.99  | 2.19 | 2.19 | 0.38 | 7.65  |
|    |   | 19 | -    | -    | -    | -    | 0.63 | 0.63 | 0.11 | 0.82  | 1.17 | 1.17 | 0.2  | 2.43  | 1.7  | 1.7  | 0.29 | 5.01  | 2.19 | 2.19 | 0.38 | 7.69  |
|    |   | 20 | -    | -    | -    | -    | 0.64 | 0.64 | 0.11 | 0.82  | 1.17 | 1.17 | 0.2  | 2.44  | 1.7  | 1.7  | 0.29 | 5.02  | 2.2  | 2.2  | 0.38 | 7.7   |
|    | 6 | 15 | -    | -    | -    | -    | 0.45 | 0.45 | 0.07 | 0.48  | 0.83 | 0.83 | 0.12 | 0.9   | 1.4  | 1.4  | 0.2  | 2.42  | 1.93 | 1.93 | 0.28 | 4.51  |
|    |   | 17 | -    | -    | -    | -    | 0.45 | 0.45 | 0.07 | 0.48  | 0.83 | 0.83 | 0.12 | 0.9   | 1.4  | 1.4  | 0.2  | 2.44  | 1.93 | 1.93 | 0.28 | 4.53  |
|    |   | 19 | -    | -    | -    | -    | 0.45 | 0.45 | 0.07 | 0.48  | 0.83 | 0.83 | 0.12 | 0.9   | 1.41 | 1.41 | 0.2  | 2.46  | 1.93 | 1.93 | 0.28 | 4.55  |
|    |   | 20 | -    | -    | -    | -    | 0.46 | 0.46 | 0.07 | 0.48  | 0.83 | 0.83 | 0.12 | 0.9   | 1.41 | 1.41 | 0.2  | 2.47  | 1.94 | 1.94 | 0.28 | 4.56  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |
|--------|------|----------------------|---------------------------|------|---------|-------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |
|        |      |                      | 21                        |      |         |       | 23    |      |         |        | 25    |      |         |        | 27    |      |         |        | 29    |      |         |        |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  |
| 5      | 3    | 15                   | 5.32                      | 4.21 | 1.52    | 34.08 | 5.28  | 4.85 | 1.51    | 33.78  | 5.5   | 5.5  | 1.58    | 36.32  | 6.17  | 6.17 | 1.76    | 43.92  | 6.81  | 6.81 | 1.96    | 52.99  |
|        |      | 17                   | 7.21                      | 4.23 | 2.06    | 57.81 | 7.18  | 4.88 | 2.06    | 57.47  | 7.16  | 5.54 | 2.05    | 57.16  | 7.12  | 6.18 | 2.04    | 56.68  | 7.1   | 6.82 | 2.03    | 56.28  |
|        |      | 19                   | -                         | -    | -       | -     | 9.24  | 4.92 | 2.67    | 90.57  | 9.21  | 5.57 | 2.66    | 90.06  | 9.18  | 6.22 | 2.65    | 89.59  | 9.14  | 6.86 | 2.62    | 87.77  |
|        |      | 20                   | -                         | -    | -       | -     | 10.33 | 4.93 | 2.99    | 110.43 | 10.29 | 5.59 | 2.97    | 108.75 | 10.26 | 6.23 | 2.96    | 108.38 | 10.23 | 6.88 | 2.95    | 107.83 |
|        | 4    | 15                   | 4.52                      | 3.84 | 0.97    | 15.69 | 4.54  | 4.5  | 0.98    | 15.95  | 5.15  | 5.15 | 1.11    | 19.73  | 5.79  | 5.79 | 1.24    | 23.89  | 6.43  | 6.43 | 1.38    | 28.7   |
|        |      | 17                   | 6.42                      | 3.87 | 1.37    | 28.55 | 6.39  | 4.52 | 1.37    | 28.37  | 6.37  | 5.16 | 1.36    | 28.14  | 6.33  | 5.81 | 1.36    | 27.89  | 6.43  | 6.4  | 1.38    | 28.66  |
|        |      | 19                   | -                         | -    | -       | -     | 8.43  | 4.55 | 1.81    | 45.81  | 8.41  | 5.2  | 1.8     | 45.57  | 8.38  | 5.84 | 1.8     | 45.33  | 8.35  | 6.49 | 1.79    | 45.06  |
|        |      | 20                   | -                         | -    | -       | -     | 9.52  | 4.56 | 2.05    | 56.83  | 9.49  | 5.22 | 2.04    | 56.54  | 9.47  | 5.87 | 2.04    | 56.25  | 9.44  | 6.51 | 2.03    | 55.95  |
|        | 5    | 15                   | 3.69                      | 3.47 | 0.63    | 7.56  | 4.12  | 4.12 | 0.71    | 9.12   | 4.78  | 4.78 | 0.82    | 11.71  | 5.44  | 5.44 | 0.94    | 14.69  | 6.08  | 6.08 | 1.05    | 17.8   |
|        |      | 17                   | 5.63                      | 3.51 | 0.97    | 15.59 | 5.6   | 4.16 | 0.96    | 15.45  | 5.57  | 4.8  | 0.96    | 15.31  | 5.56  | 5.45 | 0.96    | 15.29  | 6.09  | 6.09 | 1.05    | 17.86  |
|        |      | 19                   | -                         | -    | -       | -     | 7.62  | 4.18 | 1.31    | 25.99  | 7.6   | 4.83 | 1.3     | 25.84  | 7.57  | 5.48 | 1.3     | 25.68  | 7.53  | 6.12 | 1.29    | 25.49  |
|        |      | 20                   | -                         | -    | -       | -     | 8.71  | 4.2  | 1.5     | 32.99  | 8.69  | 4.85 | 1.5     | 32.83  | 8.66  | 5.5  | 1.49    | 32.66  | 8.63  | 6.15 | 1.49    | 32.48  |
|        | 6    | 15                   | 3.04                      | 3.04 | 0.43    | 3.9   | 3.75  | 3.75 | 0.54    | 5.7    | 4.41  | 4.41 | 0.63    | 7.53   | 5.07  | 5.07 | 0.73    | 9.51   | 5.72  | 5.72 | 0.82    | 11.67  |
|        |      | 17                   | 4.76                      | 3.14 | 0.68    | 8.56  | 4.73  | 3.79 | 0.68    | 8.46   | 4.71  | 4.43 | 0.68    | 8.41   | 5.08  | 5.08 | 0.73    | 9.54   | 5.73  | 5.73 | 0.82    | 11.71  |
|        |      | 19                   | -                         | -    | -       | -     | 6.8   | 3.82 | 0.97    | 15.65  | 6.77  | 4.47 | 0.97    | 15.55  | 6.74  | 5.12 | 0.97    | 15.42  | 6.71  | 5.76 | 0.96    | 15.3   |
|        |      | 20                   | -                         | -    | -       | -     | 7.86  | 3.84 | 1.12    | 19.96  | 7.84  | 4.48 | 1.12    | 19.84  | 7.81  | 5.13 | 1.12    | 19.72  | 7.78  | 5.77 | 1.11    | 19.58  |
| 7      | 3    | 15                   | 3.86                      | 3.54 | 1.11    | 19.7  | 4.18  | 4.18 | 1.2     | 22.32  | 4.84  | 4.84 | 1.4     | 29.06  | 5.49  | 5.49 | 1.59    | 36.09  | 6.12  | 6.12 | 1.76    | 43.15  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 |   | 17 | 5.75 | 3.56 | 1.66 | 39.09 | 5.72 | 4.21 | 1.65 | 38.76 | 5.69 | 4.86 | 1.64 | 38.38 | 5.67 | 5.5  | 1.64 | 38.22 | 6.14 | 6.14 | 1.76 | 43.3  |
|   |   | 19 | -    | -    | -    | -     | 7.74 | 4.24 | 2.23 | 65.37 | 7.72 | 4.88 | 2.23 | 65    | 7.69 | 5.53 | 2.22 | 64.61 | 7.65 | 6.17 | 2.2  | 63.56 |
|   |   | 20 | -    | -    | -    | -     | 8.81 | 4.25 | 2.54 | 81.52 | 8.78 | 4.9  | 2.53 | 81.08 | 8.76 | 5.55 | 2.53 | 81.04 | 8.74 | 6.2  | 2.53 | 80.87 |
|   |   | 15 | 3.16 | 3.11 | 0.68 | 8.48  | 3.83 | 3.83 | 0.83 | 11.78 | 4.48 | 4.48 | 0.97 | 15.39 | 5.12 | 5.12 | 1.1  | 19.17 | 5.77 | 5.77 | 1.24 | 23.51 |
|   | 4 | 17 | 4.9  | 3.2  | 1.05 | 17.74 | 4.87 | 3.84 | 1.05 | 17.56 | 4.85 | 4.49 | 1.04 | 17.45 | 5.13 | 5.13 | 1.1  | 19.23 | 5.78 | 5.78 | 1.24 | 23.59 |
|   |   | 19 | -    | -    | -    | -     | 6.92 | 3.88 | 1.5  | 32.49 | 6.9  | 4.53 | 1.49 | 32.27 | 6.87 | 5.17 | 1.48 | 32.03 | 6.84 | 5.81 | 1.48 | 31.78 |
|   |   | 20 | -    | -    | -    | -     | 8    | 3.9  | 1.73 | 41.69 | 7.97 | 4.54 | 1.72 | 41.48 | 7.95 | 5.19 | 1.72 | 41.24 | 7.91 | 5.83 | 1.71 | 40.96 |
|   |   | 15 | 2.8  | 2.8  | 0.48 | 4.7   | 3.47 | 3.47 | 0.6  | 6.77  | 4.12 | 4.12 | 0.71 | 9.07  | 4.77 | 4.77 | 0.82 | 11.51 | 5.41 | 5.41 | 0.93 | 14.3  |
|   | 5 | 17 | 4.04 | 2.84 | 0.7  | 8.76  | 4.02 | 3.49 | 0.69 | 8.68  | 4.11 | 4.07 | 0.71 | 9.03  | 4.77 | 4.77 | 0.82 | 11.55 | 5.42 | 5.42 | 0.93 | 14.35 |
|   |   | 19 | -    | -    | -    | -     | 6.05 | 3.51 | 1.04 | 17.3  | 6.02 | 4.16 | 1.04 | 17.16 | 5.6  | 4.39 | 0.96 | 28.9  | 5.97 | 5.44 | 1.03 | 16.88 |
|   |   | 20 | -    | -    | -    | -     | 7.13 | 3.53 | 1.23 | 22.9  | 7.1  | 4.18 | 1.22 | 22.76 | 7.07 | 4.82 | 1.22 | 22.6  | 7.04 | 5.46 | 1.21 | 22.41 |
|   |   | 15 | 2.13 | 2.13 | 0.31 | 1.77  | 3.07 | 3.07 | 0.44 | 4     | 3.75 | 3.75 | 0.54 | 5.62  | 4.41 | 4.41 | 0.63 | 7.38  | 5.06 | 5.06 | 0.73 | 9.32  |
|   | 6 | 17 | 3.02 | 2.43 | 0.43 | 3.87  | 3.06 | 3.03 | 0.44 | 3.98  | 3.76 | 3.76 | 0.54 | 5.64  | 4.42 | 4.42 | 0.63 | 7.41  | 5.07 | 5.07 | 0.73 | 9.36  |
|   |   | 19 | -    | -    | -    | -     | 5.16 | 3.16 | 0.74 | 9.65  | 5.13 | 3.8  | 0.74 | 9.55  | 5.11 | 4.44 | 0.73 | 9.47  | 5.14 | 5.09 | 0.74 | 9.57  |
|   |   | 20 | -    | -    | -    | -     | 6.24 | 3.17 | 0.89 | 13.27 | 6.21 | 3.82 | 0.89 | 13.17 | 6.18 | 4.46 | 0.88 | 13.05 | 6.15 | 5.1  | 0.88 | 12.94 |
|   |   | 15 | 2.87 | 2.87 | 0.82 | 11.48 | 3.52 | 3.52 | 1.01 | 16.27 | 4.17 | 4.17 | 1.19 | 21.73 | 4.82 | 4.82 | 1.39 | 28.26 | 5.46 | 5.46 | 1.56 | 34.6  |
|   | 3 | 17 | 4.16 | 2.89 | 1.19 | 21.65 | 4.13 | 3.52 | 1.18 | 21.36 | 4.18 | 4.17 | 1.2  | 21.85 | 4.83 | 4.83 | 1.39 | 28.36 | 5.47 | 5.47 | 1.56 | 34.72 |
|   |   | 19 | -    | -    | -    | -     | 6.18 | 3.56 | 1.78 | 43.42 | 6.15 | 4.21 | 1.77 | 43.1  | 6.12 | 4.85 | 1.76 | 42.7  | 6.09 | 5.5  | 1.76 | 42.36 |
|   |   | 20 | -    | -    | -    | -     | 7.23 | 3.57 | 2.08 | 56.81 | 7.22 | 4.22 | 2.08 | 56.99 | 7.19 | 4.87 | 2.07 | 56.59 | 7.16 | 5.51 | 2.07 | 56.14 |
|   |   | 15 | 2.51 | 2.51 | 0.54 | 5.62  | 3.17 | 3.17 | 0.68 | 8.34  | 3.82 | 3.82 | 0.82 | 11.44 | 4.47 | 4.47 | 0.96 | 14.94 | 5.11 | 5.11 | 1.1  | 18.91 |
|   | 4 | 17 | 3.28 | 2.53 | 0.71 | 8.83  | 3.29 | 3.18 | 0.71 | 8.87  | 3.83 | 3.83 | 0.82 | 11.48 | 4.48 | 4.48 | 0.96 | 14.99 | 5.12 | 5.12 | 1.1  | 18.98 |
|   |   | 19 | -    | -    | -    | -     | 5.3  | 3.21 | 1.14 | 20.11 | 5.27 | 3.85 | 1.14 | 19.91 | 5.24 | 4.5  | 1.13 | 19.73 | 5.25 | 5.14 | 1.13 | 19.82 |
|   |   | 20 | -    | -    | -    | -     | 6.37 | 3.22 | 1.37 | 27.58 | 6.34 | 3.87 | 1.37 | 27.37 | 6.31 | 4.51 | 1.36 | 27.14 | 6.28 | 5.15 | 1.35 | 26.9  |
|   |   | 15 | 2.03 | 2.03 | 0.35 | 2.42  | 2.8  | 2.8  | 0.48 | 4.6   | 3.46 | 3.46 | 0.59 | 6.57  | 4.12 | 4.12 | 0.71 | 8.79  | 4.76 | 4.76 | 0.82 | 11.26 |
|   | 5 | 17 | 2.08 | 2.07 | 0.36 | 2.54  | 2.81 | 2.81 | 0.48 | 4.62  | 3.47 | 3.47 | 0.6  | 6.59  | 4.12 | 4.12 | 0.71 | 8.82  | 4.77 | 4.77 | 0.82 | 11.3  |
|   |   | 19 | -    | -    | -    | -     | 4.37 | 2.85 | 0.75 | 9.75  | 4.34 | 3.49 | 0.75 | 9.65  | 4.35 | 4.13 | 0.75 | 9.65  | 4.77 | 4.77 | 0.82 | 11.34 |
|   |   | 20 | -    | -    | -    | -     | 5.45 | 2.86 | 0.94 | 14.21 | 5.42 | 3.51 | 0.93 | 14.07 | 5.39 | 4.15 | 0.93 | 13.93 | 5.37 | 4.79 | 0.92 | 13.84 |
|   |   | 15 | 1.46 | 1.46 | 0.21 | 0.93  | 2.26 | 2.26 | 0.32 | 2.05  | 3.09 | 3.09 | 0.44 | 3.99  | 3.75 | 3.75 | 0.54 | 5.54  | 4.41 | 4.41 | 0.63 | 7.25  |
|   | 6 | 17 | 1.46 | 1.46 | 0.21 | 0.93  | 2.27 | 2.27 | 0.33 | 2.07  | 3.1  | 3.1  | 0.44 | 4.01  | 3.76 | 3.76 | 0.54 | 5.56  | 4.41 | 4.41 | 0.63 | 7.28  |
|   |   | 19 | -    | -    | -    | -     | 3.38 | 2.47 | 0.48 | 4.63  | 3.37 | 3.12 | 0.48 | 4.61  | 3.77 | 3.75 | 0.54 | 5.57  | 4.42 | 4.42 | 0.63 | 7.3   |
|   |   | 20 | -    | -    | -    | -     | 4.5  | 2.51 | 0.65 | 7.52  | 4.47 | 3.15 | 0.64 | 7.43  | 4.45 | 3.79 | 0.64 | 7.37  | 4.49 | 4.44 | 0.64 | 7.5   |

Continued:

| (none) |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|--------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT    | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|        |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|        |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]   | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11     | 3    | 15                | 2.23                      | 2.23 | 0.64   | 7.33  | 2.87 | 2.87 | 0.82   | 11.35 | 3.51 | 3.51 | 1.01   | 16.06 | 4.15 | 4.15 | 1.19   | 21.43 | 4.8  | 4.8  | 1.38   | 27.59 |
|        |      | 17                | 2.5                       | 2.22 | 0.72   | 9     | 2.87 | 2.86 | 0.82   | 11.38 | 3.52 | 3.52 | 1.01   | 16.12 | 4.16 | 4.16 | 1.2    | 21.51 | 4.81 | 4.81 | 1.39   | 27.71 |
|        |      | 19                | -                         | -    | -      | -     | 4.48 | 2.89 | 1.29   | 24.43 | 4.46 | 3.53 | 1.28   | 24.16 | 4.45 | 4.18 | 1.28   | 24.09 | 4.82 | 4.81 | 1.39   | 27.82 |
|        |      | 20                | -                         | -    | -      | -     | 5.56 | 2.9  | 1.6    | 35.67 | 5.53 | 3.55 | 1.59   | 35.34 | 5.5  | 4.19 | 1.59   | 35    | 5.47 | 4.83 | 1.58   | 34.69 |
|        | 4    | 15                | 1.84                      | 1.84 | 0.4    | 3.29  | 2.51 | 2.51 | 0.54   | 5.58  | 3.17 | 3.17 | 0.68   | 8.24  | 3.82 | 3.82 | 0.82   | 11.32 | 4.45 | 4.45 | 0.96   | 14.61 |
|        |      | 17                | 1.84                      | 1.83 | 0.4    | 3.29  | 2.52 | 2.52 | 0.54   | 5.6   | 3.17 | 3.17 | 0.69   | 8.27  | 3.82 | 3.82 | 0.83   | 11.36 | 4.46 | 4.46 | 0.96   | 14.66 |
|        |      | 19                | -                         | -    | -      | -     | 3.56 | 2.54 | 0.77   | 10.06 | 3.55 | 3.18 | 0.77   | 10.02 | 3.82 | 3.79 | 0.83   | 11.37 | 4.47 | 4.47 | 0.96   | 14.72 |
|        |      | 20                | -                         | -    | -      | -     | 4.62 | 2.55 | 0.99   | 15.6  | 4.59 | 3.2  | 0.99   | 15.42 | 4.57 | 3.84 | 0.98   | 15.27 | 4.59 | 4.48 | 0.99   | 15.43 |
|        | 5    | 15                | 1.22                      | 1.22 | 0.21   | 0.92  | 2.11 | 2.11 | 0.36   | 2.73  | 2.81 | 2.81 | 0.48   | 4.59  | 3.47 | 3.47 | 0.6    | 6.53  | 4.11 | 4.11 | 0.71   | 8.72  |
|        |      | 17                | 1.23                      | 1.23 | 0.21   | 0.92  | 2.11 | 2.11 | 0.37   | 2.75  | 2.81 | 2.81 | 0.49   | 4.61  | 3.47 | 3.47 | 0.6    | 6.55  | 4.11 | 4.11 | 0.71   | 8.75  |
|        |      | 19                | -                         | -    | -      | -     | 2.54 | 2.17 | 0.44   | 3.88  | 2.8  | 2.75 | 0.48   | 4.58  | 3.48 | 3.48 | 0.6    | 6.58  | 4.12 | 4.12 | 0.71   | 8.79  |
|        |      | 20                | -                         | -    | -      | -     | 3.65 | 2.2  | 0.63   | 7.14  | 3.62 | 2.84 | 0.63   | 7.06  | 3.64 | 3.48 | 0.63   | 7.12  | 4.13 | 4.12 | 0.71   | 8.8   |
|        | 6    | 15                | 1.01                      | 1.01 | 0.15   | 0.6   | 1.47 | 1.47 | 0.21   | 0.91  | 2.36 | 2.36 | 0.34   | 2.33  | 3.1  | 3.1  | 0.45   | 3.96  | 3.74 | 3.74 | 0.54   | 5.41  |
|        |      | 17                | 1.01                      | 1.01 | 0.15   | 0.6   | 1.47 | 1.47 | 0.21   | 0.91  | 2.36 | 2.36 | 0.34   | 2.35  | 3.1  | 3.1  | 0.45   | 3.97  | 3.75 | 3.75 | 0.54   | 5.43  |
|        |      | 19                | -                         | -    | -      | -     | 1.47 | 1.47 | 0.21   | 0.91  | 2.38 | 2.38 | 0.34   | 2.36  | 3.11 | 3.11 | 0.45   | 3.99  | 3.76 | 3.76 | 0.54   | 5.45  |
|        |      | 20                | -                         | -    | -      | -     | 2.34 | 1.85 | 0.34   | 2.29  | 2.36 | 2.32 | 0.34   | 2.32  | 3.11 | 3.11 | 0.45   | 4     | 3.77 | 3.77 | 0.54   | 5.46  |
| 13     | 3    | 15                | 1.56                      | 1.56 | 0.45   | 3.99  | 2.21 | 2.21 | 0.64   | 7.2   | 2.86 | 2.86 | 0.82   | 11.13 | 3.5  | 3.5  | 1.01   | 15.75 | 4.14 | 4.14 | 1.19   | 21    |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.56 | 1.56 | 0.45 | 4    | 2.22 | 2.22 | 0.64 | 7.23  | 2.86 | 2.86 | 0.82 | 11.17 | 3.51 | 3.51 | 1.01 | 15.81 | 4.15 | 4.15 | 1.19 | 21.08 |
|    |   | 19 | -    | -    | -    | -    | 2.71 | 2.23 | 0.78 | 10.13 | 2.85 | 2.8  | 0.82 | 11.08 | 3.52 | 3.52 | 1.01 | 15.87 | 4.16 | 4.16 | 1.2  | 21.16 |
|    |   | 20 | -    | -    | -    | -    | 3.77 | 2.24 | 1.08 | 17.83 | 3.74 | 2.88 | 1.07 | 17.62 | 3.74 | 3.52 | 1.07 | 17.64 | 4.16 | 4.15 | 1.2  | 21.2  |
|    |   | 15 | 0.98 | 0.98 | 0.21 | 0.9  | 1.85 | 1.85 | 0.4  | 3.26  | 2.5  | 2.5  | 0.54 | 5.37  | 3.15 | 3.15 | 0.68 | 7.93  | 3.8  | 3.8  | 0.81 | 10.88 |
|    |   | 17 | 0.98 | 0.98 | 0.21 | 0.9  | 1.85 | 1.85 | 0.4  | 3.27  | 2.51 | 2.51 | 0.54 | 5.39  | 3.17 | 3.17 | 0.68 | 7.96  | 3.8  | 3.8  | 0.81 | 10.91 |
|    |   | 19 | -    | -    | -    | -    | 1.82 | 1.74 | 0.39 | 3.17  | 2.51 | 2.51 | 0.54 | 5.41  | 3.17 | 3.17 | 0.68 | 7.99  | 3.81 | 3.81 | 0.82 | 10.95 |
|    |   | 20 | -    | -    | -    | -    | 2.74 | 1.88 | 0.59 | 6.26  | 2.75 | 2.52 | 0.59 | 6.28  | 3.17 | 3.14 | 0.68 | 8     | 3.82 | 3.82 | 0.82 | 10.98 |
|    |   | 15 | 0.77 | 0.77 | 0.13 | 0.52 | 1.22 | 1.22 | 0.21 | 0.88  | 2.13 | 2.13 | 0.37 | 2.77  | 2.8  | 2.8  | 0.48 | 4.44  | 3.45 | 3.45 | 0.59 | 6.31  |
|    |   | 17 | 0.77 | 0.77 | 0.13 | 0.52 | 1.23 | 1.23 | 0.21 | 0.88  | 2.14 | 2.14 | 0.37 | 2.78  | 2.81 | 2.81 | 0.48 | 4.46  | 3.46 | 3.46 | 0.59 | 6.33  |
|    |   | 19 | -    | -    | -    | -    | 1.23 | 1.23 | 0.21 | 0.89  | 2.14 | 2.14 | 0.37 | 2.8   | 2.81 | 2.81 | 0.48 | 4.48  | 3.46 | 3.46 | 0.59 | 6.36  |
|    |   | 20 | -    | -    | -    | -    | 1.6  | 1.21 | 0.21 | 0.88  | 2.14 | 2.14 | 0.37 | 2.8   | 2.82 | 2.82 | 0.48 | 4.49  | 3.47 | 3.47 | 0.59 | 6.37  |
|    |   | 15 | 0.56 | 0.56 | 0.08 | 0.31 | 1.01 | 1.01 | 0.14 | 0.56  | 1.48 | 1.48 | 0.21 | 0.88  | 2.41 | 2.41 | 0.34 | 2.44  | 3.1  | 3.1  | 0.44 | 3.85  |
|    |   | 17 | 0.56 | 0.56 | 0.08 | 0.31 | 1.01 | 1.01 | 0.14 | 0.56  | 1.48 | 1.48 | 0.21 | 0.88  | 2.41 | 2.41 | 0.35 | 2.45  | 3.1  | 3.1  | 0.44 | 3.86  |
|    |   | 19 | -    | -    | -    | -    | 1.01 | 1.01 | 0.14 | 0.56  | 1.48 | 1.48 | 0.21 | 0.89  | 2.42 | 2.42 | 0.35 | 2.47  | 3.11 | 3.11 | 0.44 | 3.88  |
|    |   | 20 | -    | -    | -    | -    | 1.01 | 1.01 | 0.14 | 0.57  | 1.48 | 1.48 | 0.21 | 0.89  | 2.42 | 2.42 | 0.35 | 2.48  | 3.11 | 3.11 | 0.45 | 3.89  |
|    | 3 | 15 | 0.74 | 0.74 | 0.21 | 0.89 | 1.56 | 1.56 | 0.45 | 3.91  | 2.21 | 2.21 | 0.63 | 7.05  | 2.85 | 2.85 | 0.82 | 10.89 | 3.49 | 3.49 | 1.01 | 15.62 |
|    |   | 17 | 0.74 | 0.74 | 0.21 | 0.89 | 1.56 | 1.56 | 0.45 | 3.93  | 2.21 | 2.21 | 0.64 | 7.08  | 2.85 | 2.85 | 0.82 | 10.93 | 3.5  | 3.5  | 1.01 | 15.68 |
|    |   | 19 | -    | -    | -    | -    | 1.56 | 1.56 | 0.45 | 3.94  | 2.22 | 2.22 | 0.64 | 7.11  | 2.86 | 2.86 | 0.82 | 10.97 | 3.5  | 3.5  | 1.01 | 15.74 |
|    |   | 20 | -    | -    | -    | -    | 1.85 | 1.57 | 0.53 | 5.22  | 2.21 | 2.17 | 0.64 | 7.08  | 2.86 | 2.86 | 0.82 | 11    | 3.51 | 3.51 | 1.02 | 15.77 |
|    | 4 | 15 | 0.52 | 0.52 | 0.11 | 0.43 | 0.99 | 0.99 | 0.21 | 0.89  | 1.85 | 1.85 | 0.4  | 3.22  | 2.5  | 2.5  | 0.54 | 5.34  | 3.15 | 3.15 | 0.68 | 7.86  |
|    |   | 17 | 0.52 | 0.52 | 0.11 | 0.43 | 0.99 | 0.99 | 0.21 | 0.89  | 1.86 | 1.86 | 0.4  | 3.23  | 2.51 | 2.51 | 0.54 | 5.36  | 3.15 | 3.15 | 0.68 | 7.89  |
|    |   | 19 | -    | -    | -    | -    | 1    | 1    | 0.21 | 0.9   | 1.86 | 1.86 | 0.4  | 3.24  | 2.51 | 2.51 | 0.54 | 5.38  | 3.16 | 3.16 | 0.68 | 7.92  |
|    |   | 20 | -    | -    | -    | -    | 1    | 1    | 0.21 | 0.9   | 1.86 | 1.86 | 0.4  | 3.25  | 2.52 | 2.52 | 0.54 | 5.4   | 3.16 | 3.16 | 0.68 | 7.94  |
|    | 5 | 15 | 0.31 | 0.31 | 0.05 | 0.2  | 0.77 | 0.77 | 0.13 | 0.5   | 1.26 | 1.26 | 0.22 | 0.91  | 2.15 | 2.15 | 0.37 | 2.84  | 2.8  | 2.8  | 0.49 | 4.44  |
|    |   | 17 | 0.31 | 0.31 | 0.05 | 0.2  | 0.77 | 0.77 | 0.13 | 0.5   | 1.26 | 1.26 | 0.22 | 0.91  | 2.15 | 2.15 | 0.37 | 2.85  | 2.81 | 2.81 | 0.49 | 4.46  |
|    |   | 19 | -    | -    | -    | -    | 0.77 | 0.77 | 0.13 | 0.5   | 1.26 | 1.26 | 0.22 | 0.92  | 2.15 | 2.15 | 0.37 | 2.87  | 2.78 | 2.78 | 0.49 | 4.48  |
|    |   | 20 | -    | -    | -    | -    | 0.77 | 0.77 | 0.13 | 0.5   | 1.26 | 1.26 | 0.22 | 0.92  | 2.21 | 2.21 | 0.37 | 2.87  | 2.82 | 2.82 | 0.49 | 4.49  |
|    | 6 | 15 | -    | -    | -    | -    | 0.56 | 0.56 | 0.08 | 0.3   | 1.01 | 1.01 | 0.15 | 0.54  | 1.52 | 1.52 | 0.22 | 0.91  | 2.44 | 2.44 | 0.35 | 2.55  |
|    |   | 17 | -    | -    | -    | -    | 0.56 | 0.56 | 0.08 | 0.3   | 1.01 | 1.01 | 0.15 | 0.54  | 1.52 | 1.52 | 0.22 | 0.92  | 2.44 | 2.44 | 0.35 | 2.56  |
|    |   | 19 | -    | -    | -    | -    | 0.56 | 0.56 | 0.08 | 0.3   | 1    | 1    | 0.15 | 0.54  | 1.52 | 1.52 | 0.22 | 0.92  | 2.45 | 2.45 | 0.35 | 2.58  |
|    |   | 20 | -    | -    | -    | -    | 0.56 | 0.56 | 0.08 | 0.3   | 1.01 | 1.01 | 0.15 | 0.54  | 1.53 | 1.53 | 0.22 | 0.92  | 2.45 | 2.45 | 0.35 | 2.58  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| (none) |      |                      |                           |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |  |
|--------|------|----------------------|---------------------------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |  |
|        |      |                      | 21                        |      |         |        | 23    |      |         |        | 25    |      |         |        | 27    |      |         |        | 29    |      |         |        |  |
|        |      |                      | TC                        | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  |  |
| 5      | 3    | 15                   | 6.35                      | 4.98 | 1.82    | 69.76  | 6.34  | 5.73 | 1.82    | 69.45  | 6.5   | 6.49 | 1.88    | 73.57  | 7.25  | 7.25 | 2.1     | 89.13  | 8     | 8    | 2.31    | 105.36 |  |
|        |      | 17                   | 8.56                      | 5.01 | 2.46    | 117.95 | 8.53  | 5.77 | 2.46    | 117.55 | 8.5   | 6.52 | 2.46    | 117.51 | 8.49  | 7.28 | 2.46    | 117.53 | 8.47  | 8.03 | 2.46    | 117.28 |  |
|        |      | 19                   | -                         | -    | -       | -      | 10.92 | 5.81 | 3.15    | 180.76 | 10.89 | 6.57 | 3.14    | 179.74 | 10.85 | 7.32 | 3.13    | 178.7  | 10.81 | 8.08 | 3.12    | 177.62 |  |
|        |      | 20                   | -                         | -    | -       | -      | 12.19 | 5.83 | 3.51    | 219.01 | 12.16 | 6.59 | 3.5     | 217.92 | 12.12 | 7.35 | 3.49    | 216.85 | 12.09 | 8.11 | 3.48    | 215.71 |  |
|        | 4    | 15                   | 5.5                       | 4.58 | 1.18    | 32.89  | 5.54  | 5.35 | 1.19    | 33.25  | 6.09  | 6.09 | 1.31    | 39.19  | 6.85  | 6.85 | 1.47    | 47.89  | 7.6   | 7.6  | 1.64    | 57.68  |  |
|        |      | 17                   | 7.71                      | 4.62 | 1.66    | 59.11  | 7.68  | 5.37 | 1.65    | 58.67  | 7.65  | 6.12 | 1.65    | 58.28  | 7.63  | 6.87 | 1.64    | 58.04  | 7.72  | 7.64 | 1.66    | 59.3   |  |
|        |      | 19                   | -                         | -    | -       | -      | 10.05 | 5.4  | 2.16    | 93.47  | 10.02 | 6.16 | 2.15    | 92.88  | 9.98  | 6.92 | 2.15    | 92.3   | 9.95  | 7.67 | 2.14    | 92.06  |  |
|        |      | 20                   | -                         | -    | -       | -      | 11.32 | 5.43 | 2.44    | 115.19 | 11.29 | 6.19 | 2.43    | 114.59 | 11.25 | 6.94 | 2.43    | 114.2  | 11.22 | 7.7  | 2.43    | 114.21 |  |
|        | 5    | 15                   | 4.66                      | 4.19 | 0.8     | 16.92  | 4.95  | 4.95 | 0.85    | 18.78  | 5.69  | 5.69 | 0.98    | 23.61  | 6.45  | 6.45 | 1.11    | 29.51  | 7.2   | 7.2  | 1.24    | 35.64  |  |
|        |      | 17                   | 6.83                      | 4.22 | 1.18    | 32.48  | 6.8   | 4.97 | 1.17    | 32.25  | 6.78  | 5.72 | 1.17    | 32.08  | 6.81  | 6.48 | 1.17    | 32.34  | 7.22  | 7.22 | 1.24    | 35.78  |  |
|        |      | 19                   | -                         | -    | -       | -      | 9.17  | 5.01 | 1.58    | 53.73  | 9.13  | 5.76 | 1.57    | 53.27  | 9.09  | 6.51 | 1.56    | 52.9   | 9.06  | 7.26 | 1.56    | 52.52  |  |
|        |      | 20                   | -                         | -    | -       | -      | 10.44 | 5.03 | 1.8     | 67.38  | 10.4  | 5.79 | 1.79    | 66.97  | 10.36 | 6.54 | 1.78    | 66.55  | 10.32 | 7.29 | 1.78    | 66.14  |  |
|        | 6    | 15                   | 3.85                      | 3.8  | 0.55    | 8.95   | 4.54  | 4.54 | 0.65    | 11.81  | 5.3   | 5.3  | 0.76    | 15.34  | 6.05  | 6.05 | 0.86    | 19.08  | 6.8   | 6.8  | 0.97    | 23.31  |  |
|        |      | 17                   | 5.89                      | 3.81 | 0.84    | 18.22  | 5.87  | 4.56 | 0.84    | 18.12  | 5.88  | 5.31 | 0.84    | 18.17  | 6.13  | 6.08 | 0.88    | 19.54  | 6.82  | 6.82 | 0.97    | 23.4   |  |
|        |      | 19                   | -                         | -    | -       | -      | 8.26  | 4.61 | 1.18    | 32.68  | 8.22  | 5.36 | 1.18    | 32.45  | 8.19  | 6.11 | 1.17    | 32.24  | 8.17  | 6.86 | 1.17    | 32.09  |  |
|        |      | 20                   | -                         | -    | -       | -      | 9.52  | 4.63 | 1.37    | 41.76  | 9.48  | 5.39 | 1.36    | 41.5   | 9.45  | 6.14 | 1.36    | 41.22  | 9.41  | 6.88 | 1.35    | 40.95  |  |
| 7      | 3    | 15                   | 4.65                      | 4.18 | 1.34    | 40.41  | 4.94  | 4.93 | 1.42    | 44.63  | 5.71  | 5.71 | 1.65    | 58.04  | 6.46  | 6.46 | 1.87    | 72     | 7.21  | 7.21 | 2.09    | 87.24  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |
|---|---|----|------|------|------|-------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|
| 9 |   | 17 | 6.83 | 4.22 | 1.97 | 79.01 | 6.8   | 4.98 | 1.97 | 78.39  | 6.77  | 5.72 | 1.95 | 77.38  | 6.78  | 6.48 | 1.96 | 78     | 7.22  | 7.22 | 2.09 | 87.2   |
|   |   | 19 | -    | -    | -    | -     | 9.19  | 5.02 | 2.68 | 134.04 | 9.16  | 5.77 | 2.67 | 133.75 | 9.12  | 6.52 | 2.66 | 132.43 | 9.08  | 7.27 | 2.64 | 131.26 |
|   |   | 20 | -    | -    | -    | -     | 10.45 | 5.04 | 3.05 | 168.1  | 10.41 | 5.79 | 3.04 | 167.14 | 10.38 | 6.55 | 3.02 | 166.11 | 10.34 | 7.29 | 3.01 | 164.96 |
|   |   | 15 | 3.87 | 3.82 | 0.83 | 17.8  | 4.55  | 4.55 | 0.98 | 23.44  | 5.31  | 5.31 | 1.15 | 30.86  | 6.05  | 6.05 | 1.3  | 38.31  | 6.81  | 6.81 | 1.47 | 47.38  |
|   | 4 | 17 | 5.91 | 3.82 | 1.27 | 36.74 | 5.89  | 4.57 | 1.27 | 36.5   | 5.89  | 5.32 | 1.27 | 36.47  | 6.11  | 6.09 | 1.31 | 38.93  | 6.83  | 6.83 | 1.48 | 47.56  |
|   |   | 19 | -    | -    | -    | -     | 8.25  | 4.61 | 1.78 | 65.58  | 8.22  | 5.36 | 1.77 | 65.11  | 8.19  | 6.11 | 1.76 | 64.68  | 8.16  | 6.85 | 1.76 | 64.33  |
|   |   | 20 | -    | -    | -    | -     | 9.53  | 4.64 | 2.07 | 85.11  | 9.5   | 5.39 | 2.06 | 84.54  | 9.46  | 6.14 | 2.05 | 83.95  | 9.42  | 6.89 | 2.04 | 83.4   |
|   |   | 15 | 3.4  | 3.4  | 0.59 | 9.8   | 4.16  | 4.16 | 0.71 | 13.65  | 4.91  | 4.91 | 0.84 | 18.14  | 5.66  | 5.66 | 0.97 | 23.13  | 6.42  | 6.42 | 1.11 | 28.88  |
|   | 5 | 17 | 4.98 | 3.42 | 0.86 | 18.56 | 4.97  | 4.17 | 0.85 | 18.51  | 5.09  | 4.95 | 0.87 | 19.27  | 5.68  | 5.67 | 0.98 | 23.22  | 6.43  | 6.43 | 1.11 | 28.99  |
|   |   | 19 | -    | -    | -    | -     | 7.31  | 4.21 | 1.26 | 35.8   | 7.28  | 4.96 | 1.25 | 35.56  | 7.3   | 5.41 | 1.25 | 63     | 7.24  | 6.45 | 1.25 | 35.28  |
|   |   | 20 | -    | -    | -    | -     | 8.58  | 4.24 | 1.48 | 47.6   | 8.55  | 4.99 | 1.48 | 47.27  | 8.51  | 5.74 | 1.47 | 46.94  | 8.48  | 6.48 | 1.47 | 46.63  |
|   |   | 15 | 2.99 | 2.99 | 0.43 | 5.7   | 3.76  | 3.76 | 0.54 | 8.46   | 4.52  | 4.52 | 0.65 | 11.53  | 5.27  | 5.27 | 0.76 | 14.97  | 6.02  | 6.02 | 0.87 | 18.83  |
|   | 6 | 17 | 4.01 | 3.02 | 0.58 | 9.43  | 4.07  | 3.79 | 0.58 | 9.65   | 4.53  | 4.52 | 0.65 | 11.58  | 5.28  | 5.28 | 0.76 | 15.03  | 6.04  | 6.04 | 0.87 | 18.91  |
|   |   | 19 | -    | -    | -    | -     | 6.35  | 3.82 | 0.91 | 20.58  | 6.33  | 4.57 | 0.91 | 20.45  | 6.32  | 5.31 | 0.91 | 20.41  | 6.41  | 6.08 | 0.92 | 20.91  |
|   |   | 20 | -    | -    | -    | -     | 7.59  | 3.83 | 1.09 | 27.92  | 7.56  | 4.58 | 1.09 | 27.77  | 7.53  | 5.33 | 1.08 | 27.58  | 7.51  | 6.07 | 1.08 | 27.46  |
|   |   | 15 | 3.41 | 3.4  | 0.97 | 23.07 | 4.16  | 4.16 | 1.19 | 32.49  | 4.92  | 4.92 | 1.42 | 43.97  | 5.67  | 5.67 | 1.64 | 56.2   | 6.42  | 6.42 | 1.85 | 69.83  |
|   | 3 | 17 | 5.01 | 3.44 | 1.45 | 45.36 | 5     | 4.18 | 1.44 | 45.14  | 5.06  | 4.96 | 1.46 | 46.13  | 5.68  | 5.68 | 1.64 | 56.43  | 6.42  | 6.42 | 1.84 | 69.06  |
|   |   | 19 | -    | -    | -    | -     | 7.33  | 4.22 | 2.12 | 88.19  | 7.3   | 4.97 | 2.11 | 87.65  | 7.28  | 5.73 | 2.11 | 87.19  | 7.25  | 6.45 | 2.1  | 86.62  |
|   |   | 20 | -    | -    | -    | -     | 8.59  | 4.24 | 2.49 | 116.65 | 8.55  | 4.99 | 2.48 | 115.78 | 8.52  | 5.74 | 2.47 | 115.02 | 8.49  | 6.49 | 2.46 | 114.27 |
|   |   | 15 | 3.02 | 3.02 | 0.65 | 11.51 | 3.78  | 3.78 | 0.81 | 16.81  | 4.53  | 4.53 | 0.98 | 23.03  | 5.27  | 5.27 | 1.13 | 29.59  | 6.02  | 6.02 | 1.29 | 37.21  |
|   | 4 | 17 | 4.06 | 3.04 | 0.87 | 19.08 | 4.09  | 3.8  | 0.88 | 19.36  | 4.54  | 4.53 | 0.98 | 23.13  | 5.28  | 5.28 | 1.13 | 29.71  | 6.03  | 6.03 | 1.3  | 37.36  |
|   |   | 19 | -    | -    | -    | -     | 6.37  | 3.82 | 1.38 | 41.4   | 6.34  | 4.57 | 1.37 | 41.1   | 6.33  | 5.32 | 1.37 | 40.91  | 6.37  | 6.08 | 1.38 | 41.45  |
|   |   | 20 | -    | -    | -    | -     | 7.61  | 3.84 | 1.64 | 56.37  | 7.58  | 4.59 | 1.64 | 55.97  | 7.55  | 5.34 | 1.63 | 55.57  | 7.52  | 6.08 | 1.63 | 55.25  |
|   |   | 15 | 2.62 | 2.62 | 0.45 | 6.17  | 3.38  | 3.38 | 0.58 | 9.47   | 4.14  | 4.14 | 0.71 | 13.3   | 4.89  | 4.89 | 0.84 | 17.65  | 5.63  | 5.63 | 0.97 | 22.5   |
|   | 5 | 17 | 3.06 | 2.64 | 0.53 | 8     | 3.41  | 3.41 | 0.59 | 9.61   | 4.15  | 4.15 | 0.71 | 13.35  | 4.9   | 4.9  | 0.84 | 17.72  | 5.65  | 5.65 | 0.97 | 22.59  |
|   |   | 19 | -    | -    | -    | -     | 5.35  | 3.42 | 0.92 | 20.63  | 5.34  | 4.17 | 0.92 | 20.53  | 5.38  | 4.93 | 0.92 | 20.77  | 5.71  | 5.68 | 0.98 | 23.07  |
|   |   | 20 | -    | -    | -    | -     | 6.6   | 3.44 | 1.14 | 29.64  | 6.57  | 4.19 | 1.13 | 29.42  | 6.55  | 4.94 | 1.13 | 29.24  | 6.55  | 5.68 | 1.13 | 29.22  |
|   |   | 15 | 2.13 | 2.13 | 0.31 | 2.67  | 2.99  | 2.99 | 0.43 | 5.64   | 3.75  | 3.75 | 0.54 | 8.26   | 4.5   | 4.5  | 0.65 | 11.26  | 5.24  | 5.24 | 0.75 | 14.5   |
|   | 6 | 17 | 2.13 | 2.13 | 0.31 | 2.68  | 2.99  | 2.99 | 0.43 | 5.66   | 3.76  | 3.76 | 0.54 | 8.29   | 4.51  | 4.51 | 0.65 | 11.31  | 5.25  | 5.25 | 0.75 | 14.56  |
|   |   | 19 | -    | -    | -    | -     | 4.33  | 3.03 | 0.62 | 10.55  | 4.36  | 3.78 | 0.63 | 10.65  | 4.65  | 4.55 | 0.67 | 11.9   | 5.27  | 5.26 | 0.75 | 14.62  |
|   |   | 20 | -    | -    | -    | -     | 5.55  | 3.04 | 0.79 | 15.98  | 5.53  | 3.79 | 0.79 | 15.89  | 5.53  | 4.53 | 0.79 | 15.88  | 5.65  | 5.31 | 0.81 | 16.45  |

Continued:

| (none) |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|--------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|--|
| EWT    | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |  |
|        |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |  |
|        |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |  |
| [°C]   | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |  |
| 11     | 3    | 15                   | 2.64                      | 2.64 | 0.76    | 14.79 | 3.39 | 3.39 | 0.97    | 22.68 | 4.14 | 4.14 | 1.19    | 32.17 | 4.88 | 4.88 | 1.41    | 42.59 | 5.63 | 5.63 | 1.63    | 55.01 |  |
|        |      | 17                   | 3.09                      | 2.65 | 0.89    | 19.32 | 3.4  | 3.38 | 0.98    | 22.85 | 4.15 | 4.15 | 1.2     | 32.3  | 4.89 | 4.89 | 1.41    | 42.66 | 5.64 | 5.64 | 1.63    | 54.96 |  |
|        |      | 19                   | -                         | -    | -       | -     | 5.35 | 3.42 | 1.54    | 49.83 | 5.34 | 4.17 | 1.53    | 49.52 | 5.37 | 4.92 | 1.55    | 50.64 | 5.67 | 5.65 | 1.63    | 55.03 |  |
|        |      | 20                   | -                         | -    | -       | -     | 6.61 | 3.45 | 1.92    | 72.98 | 6.58 | 4.19 | 1.91    | 72.37 | 6.55 | 4.94 | 1.9     | 71.86 | 6.55 | 5.68 | 1.9     | 71.66 |  |
|        | 4    | 15                   | 2.25                      | 2.25 | 0.49    | 6.95  | 3.01 | 3.01 | 0.65    | 11.34 | 3.75 | 3.75 | 0.81    | 16.38 | 4.5  | 4.5  | 0.97    | 22.34 | 5.25 | 5.25 | 1.13    | 29.21 |  |
|        |      | 17                   | 2.27                      | 2.24 | 0.49    | 7.05  | 3.02 | 3.02 | 0.65    | 11.39 | 3.76 | 3.76 | 0.81    | 16.45 | 4.51 | 4.51 | 0.97    | 22.43 | 5.26 | 5.26 | 1.14    | 29.34 |  |
|        |      | 19                   | -                         | -    | -       | -     | 4.34 | 3.03 | 0.93    | 21.01 | 4.36 | 3.78 | 0.94    | 21.08 | 4.6  | 4.56 | 0.99    | 23.23 | 5.27 | 5.27 | 1.14    | 29.47 |  |
|        |      | 20                   | -                         | -    | -       | -     | 5.58 | 3.05 | 1.2     | 32.45 | 5.56 | 3.8  | 1.2     | 32.22 | 5.55 | 4.54 | 1.2     | 32.12 | 5.6  | 5.3  | 1.21    | 32.77 |  |
|        | 5    | 15                   | 1.8                       | 1.8  | 0.31    | 2.8   | 2.61 | 2.61 | 0.45    | 6.11  | 3.37 | 3.37 | 0.58    | 9.35  | 4.11 | 4.11 | 0.71    | 13    | 4.86 | 4.86 | 0.84    | 17.44 |  |
|        |      | 17                   | 1.8                       | 1.8  | 0.31    | 2.81  | 2.62 | 2.62 | 0.45    | 6.13  | 3.38 | 3.38 | 0.58    | 9.39  | 4.12 | 4.12 | 0.71    | 13.05 | 4.87 | 4.87 | 0.84    | 17.5  |  |
|        |      | 19                   | -                         | -    | -       | -     | 3.3  | 2.64 | 0.57    | 9.03  | 3.51 | 3.43 | 0.61    | 10.04 | 4.13 | 4.12 | 0.71    | 13.11 | 4.88 | 4.88 | 0.84    | 17.58 |  |
|        |      | 20                   | -                         | -    | -       | -     | 4.52 | 2.66 | 0.78    | 15.39 | 4.51 | 3.4  | 0.78    | 15.34 | 4.57 | 4.17 | 0.79    | 15.68 | 4.95 | 4.91 | 0.86    | 18    |  |
|        | 6    | 15                   | 1.34                      | 1.34 | 0.19    | 1.2   | 2.16 | 2.16 | 0.31    | 2.82  | 2.97 | 2.97 | 0.43    | 5.49  | 3.73 | 3.73 | 0.53    | 8.03  | 4.47 | 4.47 | 0.64    | 10.94 |  |
|        |      | 17                   | 1.34                      | 1.34 | 0.19    | 1.2   | 2.16 | 2.16 | 0.31    | 2.84  | 2.98 | 2.98 | 0.43    | 5.51  | 3.73 | 3.73 | 0.54    | 8.07  | 4.48 | 4.48 | 0.64    | 10.99 |  |
|        |      | 19                   | -                         | -    | -       | -     | 2.12 | 1.98 | 0.3     | 2.69  | 2.98 | 2.97 | 0.43    | 5.54  | 3.74 | 3.74 | 0.54    | 8.1   | 4.5  | 4.5  | 0.64    | 11.03 |  |
|        |      | 20                   | -                         | -    | -       | -     | 3.38 | 2.25 | 0.49    | 6.83  | 3.43 | 3.01 | 0.49    | 6.99  | 3.83 | 3.78 | 0.55    | 8.41  | 4.5  | 4.5  | 0.65    | 11.06 |  |
| 13     | 3    | 15                   | 1.88                      | 1.88 | 0.54    | 8.16  | 2.62 | 2.62 | 0.75    | 14.21 | 3.38 | 3.38 | 0.97    | 22.15 | 4.12 | 4.12 | 1.18    | 31    | 4.86 | 4.86 | 1.39    | 41.32 |  |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
|    |   | 17 | 1.88 | 1.88 | 0.54 | 8.2  | 2.63 | 2.63 | 0.75 | 14.27 | 3.38 | 3.38 | 0.97 | 22.24 | 4.13 | 4.13 | 1.18 | 31.13 | 4.87 | 4.87 | 1.4  | 41.49 |
|    |   | 19 | -    | -    | -    | -    | 3.32 | 2.65 | 0.95 | 21.52 | 3.47 | 3.44 | 1    | 23.21 | 4.14 | 4.14 | 1.19 | 31.25 | 4.88 | 4.88 | 1.4  | 41.67 |
|    |   | 20 | -    | -    | -    | -    | 4.51 | 2.65 | 1.29 | 36.01 | 4.49 | 3.4  | 1.28 | 35.82 | 4.52 | 4.15 | 1.29 | 36.18 | 4.9  | 4.88 | 1.4  | 41.9  |
|    | 4 | 15 | 1.45 | 1.45 | 0.31 | 2.85 | 2.24 | 2.24 | 0.48 | 6.66  | 2.99 | 2.99 | 0.64 | 10.86 | 3.74 | 3.74 | 0.81 | 16.04 | 4.48 | 4.48 | 0.96 | 21.84 |
|    |   | 17 | 1.45 | 1.45 | 0.31 | 2.87 | 2.24 | 2.24 | 0.48 | 6.68  | 2.99 | 2.99 | 0.64 | 10.9  | 3.76 | 3.76 | 0.81 | 16.11 | 4.49 | 4.49 | 0.97 | 21.92 |
|    |   | 19 | -    | -    | -    | -    | 2.34 | 2.29 | 0.5  | 7.17  | 3    | 2.99 | 0.64 | 10.95 | 3.76 | 3.76 | 0.81 | 16.18 | 4.5  | 4.5  | 0.97 | 22.02 |
|    |   | 20 | -    | -    | -    | -    | 3.43 | 2.27 | 0.73 | 13.69 | 3.48 | 3.03 | 0.75 | 14.16 | 3.82 | 3.79 | 0.82 | 16.64 | 4.51 | 4.51 | 0.97 | 22.07 |
|    | 5 | 15 | 1.01 | 1.01 | 0.17 | 1.03 | 1.81 | 1.81 | 0.31 | 2.84  | 2.6  | 2.6  | 0.45 | 5.88  | 3.35 | 3.35 | 0.57 | 9     | 4.1  | 4.1  | 0.71 | 12.77 |
|    |   | 17 | 1.01 | 1.01 | 0.17 | 1.03 | 1.81 | 1.81 | 0.31 | 2.86  | 2.61 | 2.61 | 0.45 | 5.9   | 3.36 | 3.36 | 0.58 | 9.03  | 4.11 | 4.11 | 0.71 | 12.82 |
|    |   | 19 | -    | -    | -    | -    | 1.82 | 1.82 | 0.31 | 2.88  | 2.62 | 2.62 | 0.45 | 5.93  | 3.37 | 3.37 | 0.58 | 9.07  | 4.12 | 4.12 | 0.71 | 12.87 |
|    |   | 20 | -    | -    | -    | -    | 2.29 | 1.87 | 0.39 | 4.73  | 2.67 | 2.66 | 0.46 | 6.12  | 3.37 | 3.37 | 0.58 | 9.09  | 4.13 | 4.13 | 0.71 | 12.9  |
|    | 6 | 15 | 0.72 | 0.72 | 0.1  | 0.59 | 1.33 | 1.33 | 0.19 | 1.14  | 2.17 | 2.17 | 0.31 | 2.88  | 2.96 | 2.96 | 0.42 | 5.36  | 3.71 | 3.71 | 0.53 | 7.82  |
|    |   | 17 | 0.72 | 0.72 | 0.1  | 0.59 | 1.34 | 1.34 | 0.19 | 1.14  | 2.18 | 2.18 | 0.31 | 2.9   | 2.98 | 2.98 | 0.43 | 5.38  | 3.72 | 3.72 | 0.53 | 7.85  |
|    |   | 19 | -    | -    | -    | -    | 1.34 | 1.34 | 0.19 | 1.14  | 2.19 | 2.19 | 0.31 | 2.92  | 2.98 | 2.98 | 0.43 | 5.4   | 3.73 | 3.73 | 0.53 | 7.88  |
|    |   | 20 | -    | -    | -    | -    | 1.34 | 1.34 | 0.19 | 1.15  | 2.19 | 2.19 | 0.31 | 2.93  | 3    | 3    | 0.43 | 5.42  | 3.73 | 3.73 | 0.53 | 7.9   |
| 15 | 3 | 15 | 1.09 | 1.09 | 0.31 | 2.93 | 1.87 | 1.87 | 0.54 | 7.96  | 2.62 | 2.62 | 0.76 | 14.31 | 3.35 | 3.35 | 0.96 | 21.54 | 4.09 | 4.09 | 1.18 | 30.43 |
|    |   | 17 | 1.09 | 1.09 | 0.31 | 2.95 | 1.87 | 1.87 | 0.54 | 7.99  | 2.62 | 2.62 | 0.76 | 14.37 | 3.36 | 3.36 | 0.96 | 21.62 | 4.1  | 4.1  | 1.18 | 30.55 |
|    |   | 19 | -    | -    | -    | -    | 1.88 | 1.87 | 0.54 | 8.03  | 2.63 | 2.63 | 0.76 | 14.44 | 3.36 | 3.36 | 0.97 | 21.72 | 4.11 | 4.11 | 1.18 | 30.69 |
|    |   | 20 | -    | -    | -    | -    | 2.33 | 1.88 | 0.67 | 11.6  | 2.65 | 2.62 | 0.77 | 14.66 | 3.37 | 3.37 | 0.97 | 21.77 | 4.12 | 4.12 | 1.18 | 30.76 |
|    | 4 | 15 | 0.69 | 0.69 | 0.15 | 0.85 | 1.46 | 1.46 | 0.31 | 2.97  | 2.23 | 2.23 | 0.48 | 6.58  | 2.98 | 2.98 | 0.65 | 10.84 | 3.72 | 3.72 | 0.81 | 15.8  |
|    |   | 17 | 0.69 | 0.69 | 0.15 | 0.85 | 1.46 | 1.46 | 0.31 | 2.99  | 2.24 | 2.24 | 0.48 | 6.61  | 2.99 | 2.99 | 0.65 | 10.88 | 3.73 | 3.73 | 0.81 | 15.86 |
|    |   | 19 | -    | -    | -    | -    | 1.47 | 1.47 | 0.32 | 3.01  | 2.25 | 2.25 | 0.48 | 6.64  | 2.99 | 2.99 | 0.65 | 10.93 | 3.74 | 3.74 | 0.81 | 15.93 |
|    |   | 20 | -    | -    | -    | -    | 1.45 | 1.35 | 0.31 | 2.91  | 2.25 | 2.24 | 0.48 | 6.66  | 3    | 3    | 0.65 | 10.96 | 3.74 | 3.74 | 0.81 | 15.96 |
|    | 5 | 15 | 0.38 | 0.38 | 0.06 | 0.36 | 1.01 | 1.01 | 0.17 | 0.99  | 1.83 | 1.83 | 0.32 | 3.04  | 2.6  | 2.6  | 0.45 | 5.84  | 3.34 | 3.34 | 0.58 | 8.92  |
|    |   | 17 | 0.38 | 0.38 | 0.07 | 0.36 | 1.01 | 1.01 | 0.17 | 1     | 1.83 | 1.83 | 0.32 | 3.06  | 2.6  | 2.6  | 0.45 | 5.86  | 3.35 | 3.35 | 0.58 | 8.96  |
|    |   | 19 | -    | -    | -    | -    | 1.01 | 1.01 | 0.18 | 1     | 1.84 | 1.84 | 0.32 | 3.08  | 2.61 | 2.61 | 0.45 | 5.89  | 3.34 | 3.34 | 0.58 | 9     |
|    |   | 20 | -    | -    | -    | -    | 1.01 | 1.01 | 0.18 | 1     | 1.84 | 1.84 | 0.32 | 3.09  | 2.61 | 2.61 | 0.45 | 5.9   | 3.36 | 3.36 | 0.58 | 9.02  |
|    | 6 | 15 | -    | -    | -    | -    | 0.71 | 0.71 | 0.1  | 0.56  | 1.33 | 1.33 | 0.19 | 1.11  | 2.19 | 2.19 | 0.32 | 3.05  | 2.96 | 2.96 | 0.43 | 5.31  |
|    |   | 17 | -    | -    | -    | -    | 0.71 | 0.71 | 0.1  | 0.56  | 1.34 | 1.34 | 0.19 | 1.12  | 2.19 | 2.19 | 0.32 | 3.07  | 2.96 | 2.96 | 0.43 | 5.33  |
|    |   | 19 | -    | -    | -    | -    | 0.71 | 0.71 | 0.1  | 0.57  | 1.34 | 1.34 | 0.19 | 1.12  | 2.2  | 2.2  | 0.32 | 3.09  | 2.97 | 2.97 | 0.43 | 5.35  |
|    |   | 20 | -    | -    | -    | -    | 0.72 | 0.72 | 0.1  | 0.57  | 1.34 | 1.34 | 0.19 | 1.12  | 2.2  | 2.2  | 0.32 | 3.1   | 2.98 | 2.98 | 0.43 | 5.36  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| MUC-05-W9 |      |                      |                           |      |        |       |      |      |        |        |      |      |        |        |      |      |        |        |      |      |        |        |
|-----------|------|----------------------|---------------------------|------|--------|-------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |        |      |      |        |        |      |      |        |        |      |      |        |        |
|           |      |                      | 21                        |      |        |       | 23   |      |        |        | 25   |      |        |        | 27   |      |        |        | 29   |      |        |        |
|           |      |                      | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  |
| 5         | 3    | 15                   | 1.51                      | 1.18 | 0.43   | 34.11 | 1.5  | 1.36 | 0.43   | 33.94  | 1.53 | 1.5  | 0.44   | 35.02  | 1.71 | 1.71 | 0.49   | 42.61  | 1.89 | 1.89 | 0.55   | 51.25  |
|           |      | 17                   | 2.03                      | 1.19 | 0.58   | 56.93 | 2.02 | 1.37 | 0.58   | 56.66  | 2.01 | 1.55 | 0.58   | 56.35  | 2.01 | 1.72 | 0.57   | 56.08  | 2    | 1.9  | 0.57   | 55.8   |
|           |      | 19                   | -                         | -    | -      | -     | 2.58 | 1.38 | 0.74   | 87.18  | 2.58 | 1.56 | 0.74   | 86.8   | 2.57 | 1.74 | 0.74   | 86.42  | 2.56 | 1.92 | 0.74   | 86.07  |
|           |      | 20                   | -                         | -    | -      | -     | 2.88 | 1.38 | 0.84   | 107.16 | 2.88 | 1.57 | 0.83   | 106.97 | 2.87 | 1.75 | 0.83   | 106.44 | 2.86 | 1.92 | 0.83   | 105.15 |
|           | 4    | 15                   | 1.31                      | 1.09 | 0.28   | 16.49 | 1.31 | 1.26 | 0.28   | 16.41  | 1.44 | 1.44 | 0.31   | 19.34  | 1.62 | 1.62 | 0.35   | 23.33  | 1.8  | 1.8  | 0.38   | 27.92  |
|           |      | 17                   | 1.82                      | 1.09 | 0.39   | 28.62 | 1.82 | 1.27 | 0.39   | 28.48  | 1.81 | 1.45 | 0.39   | 28.32  | 1.81 | 1.63 | 0.39   | 28.18  | 1.81 | 1.8  | 0.39   | 28.25  |
|           |      | 19                   | -                         | -    | -      | -     | 2.38 | 1.28 | 0.51   | 45.32  | 2.37 | 1.46 | 0.51   | 45.09  | 2.36 | 1.64 | 0.51   | 44.87  | 2.36 | 1.82 | 0.51   | 44.65  |
|           |      | 20                   | -                         | -    | -      | -     | 2.68 | 1.29 | 0.58   | 55.93  | 2.67 | 1.47 | 0.57   | 55.66  | 2.66 | 1.65 | 0.57   | 55.39  | 2.66 | 1.82 | 0.57   | 55.13  |
|           | 5    | 15                   | 1.1                       | 0.99 | 0.19   | 8.29  | 1.17 | 1.17 | 0.2    | 9.12   | 1.35 | 1.35 | 0.23   | 11.6   | 1.53 | 1.53 | 0.26   | 14.45  | 1.7  | 1.7  | 0.29   | 17.41  |
|           |      | 17                   | 1.62                      | 1    | 0.28   | 15.97 | 1.61 | 1.18 | 0.28   | 15.88  | 1.61 | 1.35 | 0.28   | 15.8   | 1.6  | 1.53 | 0.28   | 15.73  | 1.71 | 1.71 | 0.29   | 17.49  |
|           |      | 19                   | -                         | -    | -      | -     | 2.17 | 1.19 | 0.37   | 26.06  | 2.16 | 1.36 | 0.37   | 25.92  | 2.15 | 1.54 | 0.37   | 25.78  | 2.15 | 1.72 | 0.37   | 25.66  |
|           |      | 20                   | -                         | -    | -      | -     | 2.47 | 1.19 | 0.42   | 32.82  | 2.46 | 1.37 | 0.42   | 32.66  | 2.45 | 1.55 | 0.42   | 32.5   | 2.44 | 1.73 | 0.42   | 32.34  |
|           | 6    | 15                   | 0.89                      | 0.87 | 0.13   | 3.9   | 1.07 | 1.07 | 0.15   | 5.8    | 1.25 | 1.25 | 0.18   | 7.55   | 1.43 | 1.43 | 0.2    | 9.43   | 1.61 | 1.61 | 0.23   | 11.48  |
|           |      | 17                   | 1.4                       | 0.9  | 0.2    | 9.11  | 1.4  | 1.08 | 0.2    | 9.06   | 1.39 | 1.26 | 0.2    | 9.02   | 1.43 | 1.38 | 0.2    | 9.41   | 1.61 | 1.61 | 0.23   | 11.53  |
|           |      | 19                   | -                         | -    | -      | -     | 1.95 | 1.09 | 0.28   | 15.95  | 1.94 | 1.27 | 0.28   | 15.87  | 1.94 | 1.44 | 0.28   | 15.78  | 1.93 | 1.62 | 0.28   | 15.71  |
|           |      | 20                   | -                         | -    | -      | -     | 2.24 | 1.09 | 0.32   | 20.13  | 2.24 | 1.27 | 0.32   | 20.02  | 2.23 | 1.45 | 0.32   | 19.93  | 2.22 | 1.63 | 0.32   | 19.83  |
| 7         | 3    | 15                   | 1.1                       | 0.99 | 0.32   | 20.05 | 1.17 | 1.16 | 0.33   | 21.72  | 1.35 | 1.35 | 0.39   | 27.76  | 1.52 | 1.52 | 0.44   | 34.87  | 1.7  | 1.7  | 0.49   | 41.56  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 1.62 | 1    | 0.47 | 38.57 | 1.61 | 1.18 | 0.47 | 38.37 | 1.61 | 1.35 | 0.46 | 38.15 | 1.6  | 1.53 | 0.46 | 38.02 | 1.7  | 1.7  | 0.49 | 41.76 |
|   |   | 19 | -    | -    | -    | -     | 2.16 | 1.19 | 0.62 | 63.28 | 2.16 | 1.36 | 0.62 | 62.96 | 2.15 | 1.54 | 0.62 | 62.66 | 2.14 | 1.71 | 0.62 | 62.37 |
|   |   | 20 | -    | -    | -    | -     | 2.46 | 1.19 | 0.71 | 79.93 | 2.46 | 1.37 | 0.71 | 79.54 | 2.45 | 1.55 | 0.71 | 79.13 | 2.44 | 1.73 | 0.71 | 78.72 |
|   |   | 15 | 0.9  | 0.88 | 0.19 | 8.59  | 1.07 | 1.07 | 0.23 | 11.59 | 1.25 | 1.25 | 0.27 | 15.03 | 1.43 | 1.43 | 0.31 | 18.65 | 1.61 | 1.61 | 0.34 | 22.78 |
|   |   | 17 | 1.4  | 0.9  | 0.3  | 17.99 | 1.39 | 1.08 | 0.3  | 17.89 | 1.39 | 1.26 | 0.3  | 17.78 | 1.43 | 1.39 | 0.31 | 18.62 | 1.61 | 1.61 | 0.35 | 22.89 |
|   |   | 19 | -    | -    | -    | -     | 1.95 | 1.09 | 0.42 | 32.15 | 1.95 | 1.27 | 0.42 | 31.99 | 1.94 | 1.45 | 0.42 | 31.82 | 1.94 | 1.62 | 0.42 | 31.68 |
|   |   | 20 | -    | -    | -    | -     | 2.25 | 1.1  | 0.49 | 41.03 | 2.24 | 1.27 | 0.48 | 40.81 | 2.23 | 1.45 | 0.48 | 40.62 | 2.23 | 1.62 | 0.48 | 40.34 |
|   |   | 15 | 0.8  | 0.8  | 0.14 | 4.74  | 0.98 | 0.98 | 0.17 | 6.78  | 1.16 | 1.16 | 0.2  | 8.95  | 1.34 | 1.34 | 0.23 | 11.33 | 1.51 | 1.51 | 0.26 | 13.94 |
|   |   | 17 | 1.18 | 0.81 | 0.2  | 9.26  | 1.18 | 0.99 | 0.2  | 9.21  | 1.18 | 1.18 | 0.2  | 9.25  | 1.34 | 1.34 | 0.23 | 11.38 | 1.52 | 1.52 | 0.26 | 14    |
|   |   | 19 | -    | -    | -    | -     | 1.73 | 1    | 0.3  | 17.49 | 1.72 | 1.17 | 0.3  | 17.39 | 1.95 | 1.42 | 0.33 | 27.2  | 1.71 | 1.53 | 0.29 | 17.22 |
|   |   | 20 | -    | -    | -    | -     | 2.02 | 1    | 0.35 | 22.87 | 2.01 | 1.18 | 0.35 | 22.75 | 2.01 | 1.35 | 0.35 | 22.63 | 2    | 1.53 | 0.34 | 22.51 |
|   | 6 | 15 | 0.71 | 0.71 | 0.1  | 2.34  | 0.89 | 0.89 | 0.13 | 3.95  | 1.07 | 1.07 | 0.15 | 5.65  | 1.24 | 1.24 | 0.18 | 7.31  | 1.42 | 1.42 | 0.2  | 9.15  |
|   |   | 17 | 0.96 | 0.72 | 0.14 | 4.66  | 0.95 | 0.89 | 0.14 | 4.62  | 1.07 | 1.07 | 0.15 | 5.67  | 1.25 | 1.25 | 0.18 | 7.35  | 1.42 | 1.42 | 0.2  | 9.19  |
|   |   | 19 | -    | -    | -    | -     | 1.5  | 0.9  | 0.22 | 10.05 | 1.49 | 1.08 | 0.21 | 10    | 1.49 | 1.25 | 0.21 | 9.94  | 1.49 | 1.44 | 0.21 | 9.93  |
|   |   | 20 | -    | -    | -    | -     | 1.79 | 0.9  | 0.26 | 13.53 | 1.78 | 1.08 | 0.26 | 13.45 | 1.78 | 1.26 | 0.25 | 13.38 | 1.77 | 1.43 | 0.25 | 13.31 |
|   | 3 | 15 | 0.8  | 0.8  | 0.23 | 11.34 | 0.98 | 0.98 | 0.28 | 15.83 | 1.16 | 1.16 | 0.33 | 21.03 | 1.34 | 1.34 | 0.38 | 27.23 | 1.51 | 1.51 | 0.43 | 33.18 |
|   |   | 17 | 1.18 | 0.81 | 0.34 | 21.76 | 1.18 | 0.99 | 0.34 | 21.63 | 1.18 | 1.18 | 0.34 | 21.68 | 1.34 | 1.34 | 0.39 | 27.36 | 1.51 | 1.51 | 0.43 | 33.35 |
|   |   | 19 | -    | -    | -    | -     | 1.73 | 1    | 0.5  | 42.56 | 1.73 | 1.17 | 0.5  | 42.33 | 1.72 | 1.35 | 0.5  | 42.1  | 1.71 | 1.52 | 0.49 | 41.86 |
|   |   | 20 | -    | -    | -    | -     | 2.02 | 1    | 0.58 | 55.74 | 2.02 | 1.18 | 0.58 | 55.44 | 2.01 | 1.35 | 0.58 | 55.14 | 2    | 1.53 | 0.58 | 54.84 |
|   | 4 | 15 | 0.71 | 0.71 | 0.15 | 5.64  | 0.89 | 0.89 | 0.19 | 8.22  | 1.07 | 1.07 | 0.23 | 11.16 | 1.24 | 1.24 | 0.27 | 14.4  | 1.42 | 1.42 | 0.31 | 18.25 |
|   |   | 17 | 0.96 | 0.72 | 0.21 | 9.31  | 0.96 | 0.9  | 0.21 | 9.32  | 1.07 | 1.07 | 0.23 | 11.21 | 1.24 | 1.24 | 0.27 | 14.47 | 1.42 | 1.42 | 0.31 | 18.33 |
|   |   | 19 | -    | -    | -    | -     | 1.5  | 0.9  | 0.32 | 20.09 | 1.5  | 1.08 | 0.32 | 19.97 | 1.49 | 1.25 | 0.32 | 19.86 | 1.49 | 1.44 | 0.32 | 19.85 |
|   |   | 20 | -    | -    | -    | -     | 1.79 | 0.91 | 0.39 | 27.21 | 1.79 | 1.08 | 0.39 | 27.05 | 1.78 | 1.26 | 0.38 | 26.91 | 1.77 | 1.43 | 0.38 | 26.77 |
|   | 5 | 15 | 0.62 | 0.62 | 0.11 | 2.62  | 0.81 | 0.81 | 0.14 | 4.63  | 0.98 | 0.98 | 0.17 | 6.5   | 1.15 | 1.15 | 0.2  | 8.6   | 1.32 | 1.32 | 0.23 | 10.94 |
|   |   | 17 | 0.73 | 0.62 | 0.12 | 3.78  | 0.8  | 0.78 | 0.14 | 4.64  | 0.98 | 0.98 | 0.17 | 6.53  | 1.15 | 1.15 | 0.2  | 8.64  | 1.33 | 1.33 | 0.23 | 10.99 |
|   |   | 19 | -    | -    | -    | -     | 1.27 | 0.81 | 0.22 | 10.12 | 1.26 | 0.98 | 0.22 | 10.06 | 1.26 | 1.16 | 0.22 | 10.01 | 1.33 | 1.31 | 0.23 | 11.03 |
|   |   | 20 | -    | -    | -    | -     | 1.55 | 0.81 | 0.27 | 14.36 | 1.55 | 0.99 | 0.27 | 14.28 | 1.54 | 1.16 | 0.27 | 14.2  | 1.54 | 1.34 | 0.26 | 14.12 |
|   | 6 | 15 | 0.53 | 0.53 | 0.08 | 1.35  | 0.71 | 0.71 | 0.1  | 2.34  | 0.88 | 0.88 | 0.13 | 3.96  | 1.06 | 1.06 | 0.15 | 5.49  | 1.23 | 1.23 | 0.18 | 7.1   |
|   |   | 17 | 0.52 | 0.46 | 0.07 | 1.32  | 0.71 | 0.71 | 0.1  | 2.36  | 0.88 | 0.88 | 0.13 | 3.99  | 1.06 | 1.06 | 0.15 | 5.51  | 1.23 | 1.23 | 0.18 | 7.13  |
|   |   | 19 | -    | -    | -    | -     | 1.02 | 0.71 | 0.15 | 5.21  | 1.02 | 0.89 | 0.15 | 5.17  | 1.05 | 0.99 | 0.15 | 5.45  | 1.24 | 1.24 | 0.18 | 7.16  |
|   |   | 20 | -    | -    | -    | -     | 1.31 | 0.72 | 0.19 | 7.9   | 1.31 | 0.89 | 0.19 | 7.85  | 1.3  | 1.07 | 0.19 | 7.79  | 1.3  | 1.26 | 0.19 | 7.8   |

Continued:

| MUC-05-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11        | 3    | 15                   | 0.62                      | 0.62 | 0.18    | 7.22  | 0.79 | 0.79 | 0.23    | 11.03 | 0.97 | 0.97 | 0.28    | 15.49 | 1.15 | 1.15 | 0.33    | 20.58 | 1.32 | 1.32 | 0.38    | 26.26 |
|           |      | 17                   | 0.73                      | 0.62 | 0.21    | 9.42  | 0.8  | 0.78 | 0.23    | 11.05 | 0.98 | 0.98 | 0.28    | 15.56 | 1.15 | 1.15 | 0.33    | 20.67 | 1.33 | 1.33 | 0.38    | 26.39 |
|           |      | 19                   | -                         | -    | -       | -     | 1.27 | 0.81 | 0.36    | 24.27 | 1.26 | 0.98 | 0.36    | 24.11 | 1.26 | 1.16 | 0.36    | 23.99 | 1.33 | 1.32 | 0.38    | 26.51 |
|           |      | 20                   | -                         | -    | -       | -     | 1.56 | 0.81 | 0.45    | 34.87 | 1.55 | 0.99 | 0.45    | 34.67 | 1.55 | 1.16 | 0.45    | 34.46 | 1.54 | 1.34 | 0.44    | 34.27 |
|           | 4    | 15                   | 0.53                      | 0.53 | 0.11    | 3.14  | 0.7  | 0.7  | 0.15    | 5.53  | 0.88 | 0.88 | 0.19    | 8.03  | 1.06 | 1.06 | 0.23    | 10.93 | 1.23 | 1.23 | 0.26    | 14.05 |
|           |      | 17                   | 0.52                      | 0.45 | 0.11    | 3.03  | 0.71 | 0.71 | 0.15    | 5.55  | 0.88 | 0.88 | 0.19    | 8.07  | 1.06 | 1.06 | 0.23    | 10.98 | 1.24 | 1.24 | 0.27    | 14.11 |
|           |      | 19                   | -                         | -    | -       | -     | 1.03 | 0.71 | 0.22    | 10.38 | 1.02 | 0.89 | 0.22    | 10.31 | 1.06 | 1    | 0.23    | 10.92 | 1.24 | 1.24 | 0.27    | 14.18 |
|           |      | 20                   | -                         | -    | -       | -     | 1.31 | 0.72 | 0.28    | 15.64 | 1.31 | 0.89 | 0.28    | 15.53 | 1.3  | 1.07 | 0.28    | 15.44 | 1.3  | 1.26 | 0.28    | 15.45 |
|           | 5    | 15                   | 0.44                      | 0.44 | 0.08    | 1.34  | 0.62 | 0.62 | 0.11    | 2.65  | 0.78 | 0.78 | 0.14    | 4.57  | 0.96 | 0.96 | 0.17    | 6.38  | 1.14 | 1.14 | 0.2     | 8.44  |
|           |      | 17                   | 0.44                      | 0.44 | 0.08    | 1.34  | 0.62 | 0.62 | 0.11    | 2.67  | 0.79 | 0.79 | 0.14    | 4.58  | 0.97 | 0.97 | 0.17    | 6.41  | 1.14 | 1.14 | 0.2     | 8.48  |
|           |      | 19                   | -                         | -    | -       | -     | 0.78 | 0.62 | 0.13    | 4.44  | 0.79 | 0.74 | 0.14    | 4.56  | 0.97 | 0.97 | 0.17    | 6.44  | 1.15 | 1.15 | 0.2     | 8.53  |
|           |      | 20                   | -                         | -    | -       | -     | 1.06 | 0.63 | 0.18    | 7.52  | 1.06 | 0.8  | 0.18    | 7.46  | 1.06 | 0.98 | 0.18    | 7.45  | 1.15 | 1.13 | 0.2     | 8.55  |
|           | 6    | 15                   | 0.35                      | 0.35 | 0.05    | 0.8   | 0.52 | 0.52 | 0.08    | 1.32  | 0.7  | 0.7  | 0.1     | 2.35  | 0.87 | 0.87 | 0.13    | 3.93  | 1.05 | 1.05 | 0.15    | 5.31  |
|           |      | 17                   | 0.35                      | 0.35 | 0.05    | 0.8   | 0.53 | 0.53 | 0.08    | 1.32  | 0.7  | 0.7  | 0.1     | 2.37  | 0.86 | 0.86 | 0.13    | 3.95  | 1.05 | 1.05 | 0.15    | 5.33  |
|           |      | 19                   | -                         | -    | -       | -     | 0.52 | 0.48 | 0.08    | 1.32  | 0.7  | 0.7  | 0.1     | 2.39  | 0.88 | 0.88 | 0.13    | 3.97  | 1.05 | 1.05 | 0.15    | 5.36  |
|           |      | 20                   | -                         | -    | -       | -     | 0.81 | 0.53 | 0.12    | 3.31  | 0.8  | 0.71 | 0.12    | 3.27  | 0.88 | 0.83 | 0.13    | 3.95  | 1.05 | 1.05 | 0.15    | 5.37  |
| 13        | 3    | 15                   | 0.44                      | 0.44 | 0.13    | 3.97  | 0.61 | 0.61 | 0.18    | 7.01  | 0.79 | 0.79 | 0.23    | 10.71 | 0.97 | 0.97 | 0.28    | 15.09 | 1.14 | 1.14 | 0.33    | 20.01 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 |   | 17 | 0.44 | 0.44 | 0.13 | 3.99  | 0.62 | 0.62 | 0.18 | 7.04  | 0.79 | 0.79 | 0.23 | 10.76 | 0.97 | 0.97 | 0.28 | 15.16 | 1.14 | 1.14 | 0.33 | 20.11 |
|    |   | 19 | -    | -    | -    | -     | 0.78 | 0.62 | 0.22 | 10.4  | 0.8  | 0.75 | 0.23 | 10.82 | 0.97 | 0.97 | 0.28 | 15.24 | 1.15 | 1.15 | 0.33 | 20.21 |
|    |   | 20 | -    | -    | -    | -     | 1.07 | 0.63 | 0.31 | 17.81 | 1.06 | 0.8  | 0.3  | 17.68 | 1.06 | 0.98 | 0.3  | 17.6  | 1.15 | 1.13 | 0.33 | 20.25 |
|    |   | 15 | 0.35 | 0.35 | 0.08 | 1.31  | 0.53 | 0.53 | 0.11 | 3.12  | 0.7  | 0.7  | 0.15 | 5.27  | 0.87 | 0.87 | 0.19 | 7.68  | 1.05 | 1.05 | 0.22 | 10.45 |
|    | 4 | 17 | 0.35 | 0.35 | 0.08 | 1.32  | 0.53 | 0.53 | 0.11 | 3.14  | 0.7  | 0.7  | 0.15 | 5.29  | 0.88 | 0.88 | 0.19 | 7.72  | 1.05 | 1.05 | 0.23 | 10.49 |
|    |   | 19 | -    | -    | -    | -     | 0.53 | 0.51 | 0.11 | 3.14  | 0.7  | 0.7  | 0.15 | 5.32  | 0.88 | 0.88 | 0.19 | 7.75  | 1.05 | 1.05 | 0.23 | 10.55 |
|    |   | 20 | -    | -    | -    | -     | 0.81 | 0.53 | 0.17 | 6.7   | 0.8  | 0.71 | 0.17 | 6.66  | 0.88 | 0.84 | 0.19 | 7.72  | 1.06 | 1.06 | 0.23 | 10.58 |
|    | 5 | 15 | 0.26 | 0.26 | 0.04 | 0.69  | 0.44 | 0.44 | 0.07 | 1.28  | 0.61 | 0.61 | 0.1  | 2.61  | 0.78 | 0.78 | 0.13 | 4.37  | 0.96 | 0.96 | 0.16 | 6.11  |
|    |   | 17 | 0.26 | 0.26 | 0.05 | 0.69  | 0.44 | 0.44 | 0.07 | 1.29  | 0.61 | 0.61 | 0.1  | 2.63  | 0.78 | 0.78 | 0.13 | 4.39  | 0.96 | 0.96 | 0.16 | 6.14  |
|    |   | 19 | -    | -    | -    | -     | 0.44 | 0.44 | 0.08 | 1.29  | 0.61 | 0.61 | 0.11 | 2.65  | 0.79 | 0.79 | 0.14 | 4.42  | 0.96 | 0.96 | 0.17 | 6.17  |
|    |   | 20 | -    | -    | -    | -     | 0.54 | 0.44 | 0.09 | 1.97  | 0.61 | 0.56 | 0.1  | 2.59  | 0.79 | 0.79 | 0.14 | 4.43  | 0.97 | 0.97 | 0.17 | 6.19  |
|    | 6 | 15 | 0.03 | 0.03 | 0    | -0.06 | 0.35 | 0.35 | 0.05 | 0.75  | 0.52 | 0.52 | 0.07 | 1.27  | 0.69 | 0.69 | 0.1  | 2.32  | 0.87 | 0.87 | 0.12 | 3.79  |
|    |   | 17 | 0.17 | 0.17 | 0.03 | 0.38  | 0.35 | 0.35 | 0.05 | 0.75  | 0.52 | 0.52 | 0.07 | 1.27  | 0.7  | 0.7  | 0.1  | 2.34  | 0.87 | 0.87 | 0.12 | 3.81  |
|    |   | 19 | -    | -    | -    | -     | 0.35 | 0.35 | 0.05 | 0.76  | 0.52 | 0.52 | 0.07 | 1.28  | 0.7  | 0.7  | 0.1  | 2.36  | 0.87 | 0.87 | 0.12 | 3.83  |
|    |   | 20 | -    | -    | -    | -     | 0.34 | 0.27 | 0.05 | 0.74  | 0.52 | 0.52 | 0.07 | 1.28  | 0.7  | 0.7  | 0.1  | 2.36  | 0.87 | 0.87 | 0.13 | 3.84  |
|    | 3 | 15 | 0.26 | 0.26 | 0.08 | 1.29  | 0.44 | 0.44 | 0.13 | 3.88  | 0.61 | 0.61 | 0.18 | 6.82  | 0.79 | 0.79 | 0.23 | 10.42 | 0.96 | 0.96 | 0.28 | 14.84 |
|    |   | 17 | 0.26 | 0.26 | 0.08 | 1.3   | 0.44 | 0.44 | 0.13 | 3.9   | 0.61 | 0.61 | 0.18 | 6.85  | 0.79 | 0.79 | 0.23 | 10.47 | 0.96 | 0.96 | 0.28 | 14.91 |
|    |   | 19 | -    | -    | -    | -     | 0.44 | 0.44 | 0.13 | 3.91  | 0.61 | 0.61 | 0.18 | 6.88  | 0.79 | 0.79 | 0.23 | 10.52 | 0.96 | 0.96 | 0.28 | 14.98 |
|    |   | 20 | -    | -    | -    | -     | 0.54 | 0.44 | 0.16 | 5.62  | 0.61 | 0.54 | 0.17 | 6.76  | 0.79 | 0.79 | 0.23 | 10.55 | 0.97 | 0.97 | 0.28 | 15.03 |
|    | 4 | 15 | 0.17 | 0.17 | 0.04 | 0.56  | 0.35 | 0.35 | 0.07 | 1.28  | 0.52 | 0.52 | 0.11 | 3.13  | 0.69 | 0.69 | 0.15 | 5.18  | 0.87 | 0.87 | 0.19 | 7.54  |
|    |   | 17 | 0.17 | 0.17 | 0.04 | 0.56  | 0.35 | 0.35 | 0.08 | 1.28  | 0.02 | 0.02 | 0.11 | 3.17  | 0.7  | 0.7  | 0.15 | 5.21  | 0.88 | 0.88 | 0.19 | 7.57  |
|    |   | 19 | -    | -    | -    | -     | 0.35 | 0.35 | 0.08 | 1.29  | 0.52 | 0.52 | 0.11 | 3.17  | 0.7  | 0.7  | 0.15 | 5.23  | 0.88 | 0.88 | 0.19 | 7.61  |
|    |   | 20 | -    | -    | -    | -     | 0.34 | 0.3  | 0.07 | 1.24  | 0.53 | 0.53 | 0.11 | 3.18  | 0.7  | 0.7  | 0.15 | 5.25  | 0.87 | 0.87 | 0.19 | 7.63  |
|    | 5 | 15 | 0.02 | 0.02 | 0    | -0.05 | 0.26 | 0.26 | 0.05 | 0.66  | 0.43 | 0.43 | 0.07 | 1.27  | 0.61 | 0.61 | 0.1  | 2.68  | 0.76 | 0.76 | 0.13 | 4.32  |
|    |   | 17 | 0.09 | 0.09 | 0.02 | 0.22  | 0.26 | 0.26 | 0.05 | 0.66  | 0.43 | 0.43 | 0.08 | 1.28  | 0.61 | 0.61 | 0.11 | 2.7   | 0.78 | 0.78 | 0.14 | 4.33  |
|    |   | 19 | -    | -    | -    | -     | 0.26 | 0.26 | 0.05 | 0.66  | 0.43 | 0.43 | 0.08 | 1.29  | 0.61 | 0.61 | 0.11 | 2.72  | 0.78 | 0.78 | 0.14 | 4.35  |
|    |   | 20 | -    | -    | -    | -     | 0.26 | 0.26 | 0.05 | 0.66  | 0.44 | 0.44 | 0.08 | 1.29  | 0.61 | 0.61 | 0.11 | 2.72  | 0.79 | 0.79 | 0.14 | 4.36  |
|    | 6 | 15 | -    | -    | -    | -     | 0.17 | 0.17 | 0.02 | 0.36  | 0.35 | 0.35 | 0.05 | 0.71  | 0.52 | 0.52 | 0.07 | 1.26  | 0.69 | 0.69 | 0.1  | 2.37  |
|    |   | 17 | -    | -    | -    | -     | 0.17 | 0.17 | 0.03 | 0.36  | 0.35 | 0.35 | 0.05 | 0.72  | 0.52 | 0.52 | 0.07 | 1.26  | 0.69 | 0.69 | 0.1  | 2.39  |
|    |   | 19 | -    | -    | -    | -     | 0.17 | 0.17 | 0.03 | 0.36  | 0.35 | 0.35 | 0.05 | 0.72  | 0.52 | 0.52 | 0.07 | 1.27  | 0.69 | 0.69 | 0.1  | 2.41  |
|    |   | 20 | -    | -    | -    | -     | 0.17 | 0.17 | 0.03 | 0.36  | 0.35 | 0.35 | 0.05 | 0.72  | 0.52 | 0.52 | 0.08 | 1.27  | 0.69 | 0.69 | 0.1  | 2.41  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| MUC-08-W9 |      |                      |                           |      |        |       |      |      |        |        |      |      |        |        |      |      |        |        |      |      |        |        |  |
|-----------|------|----------------------|---------------------------|------|--------|-------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |        |      |      |        |        |      |      |        |        |      |      |        |        |  |
|           |      |                      | 21                        |      |        |       | 23   |      |        |        | 25   |      |        |        | 27   |      |        |        | 29   |      |        |        |  |
|           |      |                      | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    | TC   | SC   | WF     | WPD    |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  | [kW] | [kW] | [m³/h] | [kPa]  |  |
| 5         | 3    | 15                   | 2.37                      | 1.87 | 0.68   | 37.44 | 2.37 | 2.15 | 0.68   | 37.26  | 2.43 | 2.41 | 0.69   | 38.93  | 2.72 | 2.72 | 0.78   | 47.95  | 3    | 3    | 0.86   | 56.16  |  |
|           |      | 17                   | 3.21                      | 1.88 | 0.93   | 64.03 | 3.2  | 2.16 | 0.92   | 63.61  | 3.19 | 2.45 | 0.92   | 63.21  | 3.18 | 2.73 | 0.92   | 62.82  | 3.17 | 3.01 | 0.91   | 62.57  |  |
|           |      | 19                   | -                         | -    | -      | -     | 4.09 | 2.18 | 1.17   | 96.52  | 4.08 | 2.46 | 1.17   | 96.02  | 4.06 | 2.75 | 1.17   | 95.47  | 4.05 | 3.03 | 1.16   | 94.87  |  |
|           |      | 20                   | -                         | -    | -      | -     | 4.57 | 2.19 | 1.31   | 117.57 | 4.56 | 2.47 | 1.31   | 117.47 | 4.55 | 2.76 | 1.31   | 117.57 | 4.54 | 3.05 | 1.31   | 117.45 |  |
|           | 4    | 15                   | 2.05                      | 1.72 | 0.44   | 17.9  | 2.05 | 2    | 0.44   | 17.9   | 2.28 | 2.28 | 0.49   | 21.4   | 2.56 | 2.56 | 0.55   | 25.86  | 2.85 | 2.85 | 0.61   | 30.99  |  |
|           |      | 17                   | 2.87                      | 1.73 | 0.62   | 31.52 | 2.86 | 2.01 | 0.61   | 31.3   | 2.85 | 2.29 | 0.61   | 31.09  | 2.84 | 2.57 | 0.61   | 30.93  | 2.86 | 2.86 | 0.61   | 31.25  |  |
|           |      | 19                   | -                         | -    | -      | -     | 3.76 | 2.03 | 0.81   | 50.08  | 3.75 | 2.31 | 0.8    | 49.78  | 3.73 | 2.59 | 0.8    | 49.49  | 3.72 | 2.87 | 0.8    | 49.18  |  |
|           |      | 20                   | -                         | -    | -      | -     | 4.24 | 2.04 | 0.92   | 62.39  | 4.23 | 2.32 | 0.91   | 62.05  | 4.22 | 2.61 | 0.91   | 61.69  | 4.2  | 2.89 | 0.91   | 61.33  |  |
|           | 5    | 15                   | 1.71                      | 1.56 | 0.29   | 8.86  | 1.84 | 1.84 | 0.32   | 10.04  | 2.13 | 2.13 | 0.36   | 12.81  | 2.41 | 2.41 | 0.42   | 15.99  | 2.7  | 2.7  | 0.46   | 19.3   |  |
|           |      | 17                   | 2.54                      | 1.57 | 0.44   | 17.44 | 2.53 | 1.86 | 0.44   | 17.32  | 2.52 | 2.14 | 0.43   | 17.22  | 2.52 | 2.42 | 0.43   | 17.21  | 2.7  | 2.7  | 0.46   | 19.38  |  |
|           |      | 19                   | -                         | -    | -      | -     | 3.42 | 1.87 | 0.59   | 29.06  | 3.41 | 2.16 | 0.59   | 28.87  | 3.4  | 2.44 | 0.59   | 28.69  | 3.38 | 2.72 | 0.58   | 28.2   |  |
|           |      | 20                   | -                         | -    | -      | -     | 3.9  | 1.88 | 0.67   | 36.29  | 3.88 | 2.17 | 0.67   | 36.09  | 3.87 | 2.45 | 0.67   | 35.88  | 3.86 | 2.73 | 0.66   | 35.66  |  |
|           | 6    | 15                   | 1.37                      | 1.34 | 0.2    | 4.11  | 1.69 | 1.69 | 0.24   | 6.38   | 1.97 | 1.97 | 0.28   | 8.31   | 2.26 | 2.26 | 0.32   | 10.42  | 2.54 | 2.54 | 0.36   | 12.73  |  |
|           |      | 17                   | 2.18                      | 1.42 | 0.31   | 9.85  | 2.18 | 1.7  | 0.31   | 9.79   | 2.17 | 1.98 | 0.31   | 9.75   | 2.26 | 2.24 | 0.32   | 10.45  | 2.55 | 2.55 | 0.37   | 12.78  |  |
|           |      | 19                   | -                         | -    | -      | -     | 3.06 | 1.71 | 0.44   | 17.34  | 3.05 | 2    | 0.44   | 17.22  | 3.04 | 2.28 | 0.43   | 17.11  | 3.03 | 2.56 | 0.43   | 17.02  |  |
|           |      | 20                   | -                         | -    | -      | -     | 3.54 | 1.73 | 0.51   | 22.2   | 3.53 | 2.01 | 0.5    | 22.06  | 3.51 | 2.29 | 0.5    | 21.92  | 3.5  | 2.57 | 0.5    | 21.78  |  |
| 7         | 3    | 15                   | 1.73                      | 1.57 | 0.5    | 21.53 | 1.85 | 1.85 | 0.53   | 24.11  | 2.14 | 2.14 | 0.62   | 31.3   | 2.42 | 2.42 | 0.7    | 38.76  | 2.7  | 2.7  | 0.77   | 46.27  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4 | 17 | 2.55 | 1.58 | 0.73 | 41.86 | 2.54 | 1.86 | 0.73 | 41.55 | 2.53 | 2.14 | 0.73 | 41.29 | 2.52 | 2.42 | 0.72 | 41.21 | 2.71 | 2.71 | 0.78 | 46.46 |
|   |   | 19 | -    | -    | -    | -     | 3.44 | 1.88 | 1    | 71.42 | 3.42 | 2.16 | 0.99 | 70.95 | 3.41 | 2.45 | 0.99 | 70.51 | 3.4  | 2.73 | 0.99 | 70.07 |
|   |   | 20 | -    | -    | -    | -     | 3.9  | 1.88 | 1.13 | 88.25 | 3.89 | 2.17 | 1.12 | 87.77 | 3.88 | 2.45 | 1.12 | 87.25 | 3.87 | 2.73 | 1.12 | 87.16 |
|   |   | 15 | 1.42 | 1.4  | 0.31 | 9.44  | 1.7  | 1.7  | 0.37 | 12.84 | 1.98 | 1.98 | 0.43 | 16.49 | 2.27 | 2.27 | 0.49 | 20.72 | 2.55 | 2.55 | 0.55 | 25.33 |
|   | 4 | 17 | 2.2  | 1.43 | 0.47 | 19.73 | 2.19 | 1.71 | 0.47 | 19.59 | 2.19 | 1.99 | 0.47 | 19.52 | 2.27 | 2.25 | 0.49 | 20.75 | 2.55 | 2.55 | 0.55 | 25.43 |
|   |   | 19 | -    | -    | -    | -     | 3.08 | 1.72 | 0.66 | 35.08 | 3.07 | 2.01 | 0.66 | 35.01 | 3.06 | 2.29 | 0.66 | 35.03 | 3.05 | 2.57 | 0.66 | 34.89 |
|   |   | 20 | -    | -    | -    | -     | 3.56 | 1.73 | 0.77 | 45.48 | 3.55 | 2.02 | 0.77 | 45.19 | 3.53 | 2.3  | 0.76 | 44.9  | 3.52 | 2.58 | 0.76 | 44.62 |
|   |   | 15 | 1.26 | 1.26 | 0.22 | 5.21  | 1.55 | 1.55 | 0.27 | 7.46  | 1.83 | 1.83 | 0.32 | 9.91  | 2.11 | 2.11 | 0.36 | 12.52 | 2.4  | 2.4  | 0.41 | 15.49 |
|   | 5 | 17 | 1.85 | 1.28 | 0.32 | 10.03 | 1.84 | 1.56 | 0.32 | 9.98  | 1.86 | 1.85 | 0.32 | 10.07 | 2.12 | 2.12 | 0.36 | 12.57 | 2.4  | 2.4  | 0.41 | 15.55 |
|   |   | 19 | -    | -    | -    | -     | 2.72 | 1.57 | 0.47 | 19.22 | 2.71 | 1.85 | 0.47 | 19.08 | 2.85 | 2.06 | 0.49 | 26    | 2.69 | 2.41 | 0.46 | 18.89 |
|   |   | 20 | -    | -    | -    | -     | 3.19 | 1.58 | 0.55 | 25.27 | 3.18 | 1.86 | 0.55 | 25.1  | 3.17 | 2.14 | 0.54 | 24.93 | 3.16 | 2.42 | 0.54 | 24.78 |
|   |   | 15 | 1.06 | 1.06 | 0.15 | 2.34  | 1.39 | 1.39 | 0.2  | 4.33  | 1.68 | 1.68 | 0.24 | 6.22  | 1.96 | 1.96 | 0.28 | 8.1   | 2.25 | 2.25 | 0.32 | 10.16 |
|   | 6 | 17 | 1.45 | 1.11 | 0.21 | 4.81  | 1.45 | 1.4  | 0.21 | 4.79  | 1.68 | 1.68 | 0.24 | 6.25  | 1.97 | 1.97 | 0.28 | 8.13  | 2.25 | 2.25 | 0.32 | 10.2  |
|   |   | 19 | -    | -    | -    | -     | 2.35 | 1.42 | 0.34 | 10.96 | 2.34 | 1.7  | 0.34 | 10.89 | 2.33 | 1.98 | 0.33 | 10.83 | 2.34 | 2.26 | 0.34 | 10.9  |
|   |   | 20 | -    | -    | -    | -     | 2.82 | 1.43 | 0.41 | 14.96 | 2.81 | 1.71 | 0.4  | 14.85 | 2.8  | 1.99 | 0.4  | 14.75 | 2.79 | 2.27 | 0.4  | 14.58 |
|   |   | 15 | 1.27 | 1.27 | 0.36 | 12.47 | 1.56 | 1.56 | 0.44 | 17.58 | 1.84 | 1.84 | 0.53 | 23.39 | 2.13 | 2.13 | 0.61 | 30.31 | 2.4  | 2.4  | 0.69 | 37.04 |
| 9 | 3 | 17 | 1.86 | 1.28 | 0.53 | 23.88 | 1.86 | 1.56 | 0.53 | 23.74 | 1.87 | 1.85 | 0.53 | 24.02 | 2.13 | 2.13 | 0.61 | 30.44 | 2.41 | 2.41 | 0.69 | 37.2  |
|   |   | 19 | -    | -    | -    | -     | 2.74 | 1.58 | 0.79 | 47.09 | 2.73 | 1.86 | 0.79 | 46.75 | 2.72 | 2.14 | 0.78 | 46.45 | 2.71 | 2.42 | 0.78 | 46.21 |
|   |   | 20 | -    | -    | -    | -     | 3.21 | 1.59 | 0.93 | 62.07 | 3.2  | 1.87 | 0.92 | 61.64 | 3.18 | 2.15 | 0.92 | 61.22 | 3.17 | 2.43 | 0.92 | 60.83 |
|   |   | 15 | 1.12 | 1.12 | 0.24 | 6.21  | 1.41 | 1.41 | 0.3  | 9.1   | 1.69 | 1.69 | 0.36 | 12.33 | 1.97 | 1.97 | 0.42 | 16.12 | 2.26 | 2.26 | 0.49 | 20.34 |
|   | 4 | 17 | 1.5  | 1.13 | 0.32 | 10.11 | 1.5  | 1.41 | 0.32 | 10.14 | 1.69 | 1.69 | 0.36 | 12.38 | 1.98 | 1.98 | 0.43 | 16.19 | 2.26 | 2.26 | 0.49 | 20.42 |
|   |   | 19 | -    | -    | -    | -     | 2.37 | 1.43 | 0.51 | 21.98 | 2.36 | 1.71 | 0.51 | 21.83 | 2.35 | 1.99 | 0.51 | 21.71 | 2.35 | 2.27 | 0.51 | 21.79 |
|   |   | 20 | -    | -    | -    | -     | 2.83 | 1.43 | 0.61 | 29.75 | 2.82 | 1.71 | 0.6  | 29.54 | 2.81 | 1.99 | 0.6  | 29.34 | 2.8  | 2.27 | 0.6  | 29.15 |
|   |   | 15 | 0.95 | 0.95 | 0.16 | 2.73  | 1.26 | 1.26 | 0.22 | 5.1   | 1.54 | 1.54 | 0.26 | 7.2   | 1.82 | 1.82 | 0.31 | 9.56  | 2.1  | 2.1  | 0.36 | 12.18 |
|   | 5 | 17 | 1.08 | 0.97 | 0.19 | 3.74  | 1.26 | 1.25 | 0.22 | 5.12  | 1.54 | 1.54 | 0.27 | 7.23  | 1.83 | 1.83 | 0.31 | 9.6   | 2.11 | 2.11 | 0.36 | 12.23 |
|   |   | 19 | -    | -    | -    | -     | 1.99 | 1.27 | 0.34 | 11.04 | 1.98 | 1.56 | 0.34 | 10.97 | 1.98 | 1.84 | 0.34 | 10.98 | 2.11 | 2.1  | 0.36 | 12.28 |
|   |   | 20 | -    | -    | -    | -     | 2.45 | 1.28 | 0.42 | 15.8  | 2.44 | 1.56 | 0.42 | 15.69 | 2.43 | 1.84 | 0.42 | 15.59 | 2.43 | 2.12 | 0.42 | 15.53 |
|   |   | 15 | 0.77 | 0.77 | 0.11 | 1.33  | 1.07 | 1.07 | 0.15 | 2.42  | 1.39 | 1.39 | 0.2  | 4.38  | 1.67 | 1.67 | 0.24 | 6.08  | 1.96 | 1.96 | 0.28 | 7.9   |
|   | 6 | 17 | 0.77 | 0.77 | 0.11 | 1.33  | 1.07 | 1.07 | 0.15 | 2.43  | 1.39 | 1.39 | 0.2  | 4.4   | 1.68 | 1.68 | 0.24 | 6.1   | 1.96 | 1.96 | 0.28 | 7.93  |
|   |   | 19 | -    | -    | -    | -     | 1.59 | 1.12 | 0.23 | 5.55  | 1.58 | 1.4  | 0.23 | 5.54  | 1.67 | 1.64 | 0.24 | 6.08  | 1.96 | 1.96 | 0.28 | 7.96  |
|   |   | 20 | -    | -    | -    | -     | 2.06 | 1.13 | 0.3  | 8.61  | 2.05 | 1.41 | 0.29 | 8.54  | 2.04 | 1.69 | 0.29 | 8.51  | 2.06 | 1.98 | 0.29 | 8.59  |

Continued:

| MUC-08-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 0.99                      | 0.99 | 0.28   | 8     | 1.27 | 1.27 | 0.36   | 12.27 | 1.55 | 1.55 | 0.44   | 17.27 | 1.83 | 1.83 | 0.53   | 22.97 | 2.11 | 2.11 | 0.61   | 29.54 |
|           |      | 17                | 1.14                      | 0.99 | 0.33   | 10.28 | 1.27 | 1.25 | 0.36   | 12.3  | 1.55 | 1.55 | 0.45   | 17.34 | 1.83 | 1.83 | 0.53   | 23.06 | 2.11 | 2.11 | 0.61   | 29.66 |
|           |      | 19                | -                         | -    | -      | -     | 2    | 1.28 | 0.57   | 26.81 | 1.99 | 1.56 | 0.57   | 26.61 | 1.99 | 1.84 | 0.57   | 26.57 | 2.12 | 2.11 | 0.61   | 29.76 |
|           |      | 20                | -                         | -    | -      | -     | 2.47 | 1.29 | 0.71   | 39.02 | 2.46 | 1.57 | 0.71   | 38.72 | 2.45 | 1.85 | 0.71   | 38.46 | 2.44 | 2.13 | 0.71   | 38.25 |
|           | 4    | 15                | 0.83                      | 0.83 | 0.18   | 3.46  | 1.12 | 1.12 | 0.24   | 6.12  | 1.4  | 1.4  | 0.3    | 8.95  | 1.68 | 1.68 | 0.36   | 12.21 | 1.96 | 1.96 | 0.42   | 15.7  |
|           |      | 17                | 0.82                      | 0.79 | 0.18   | 3.38  | 1.12 | 1.12 | 0.24   | 6.14  | 1.41 | 1.41 | 0.3    | 8.98  | 1.69 | 1.69 | 0.36   | 12.27 | 1.97 | 1.97 | 0.42   | 15.77 |
|           |      | 19                | -                         | -    | -      | -     | 1.61 | 1.13 | 0.35   | 11.37 | 1.61 | 1.41 | 0.35   | 11.35 | 1.69 | 1.67 | 0.37   | 12.29 | 1.97 | 1.97 | 0.42   | 15.83 |
|           |      | 20                | -                         | -    | -      | -     | 2.07 | 1.14 | 0.45   | 17.24 | 2.06 | 1.42 | 0.44   | 17.11 | 2.06 | 1.7  | 0.44   | 17.03 | 2.07 | 1.98 | 0.44   | 17.16 |
|           | 5    | 15                | 0.65                      | 0.65 | 0.11   | 1.32  | 0.95 | 0.95 | 0.16   | 2.87  | 1.26 | 1.26 | 0.22   | 5.05  | 1.54 | 1.54 | 0.27   | 7.1   | 1.81 | 1.81 | 0.31   | 9.43  |
|           |      | 17                | 0.65                      | 0.65 | 0.11   | 1.32  | 0.96 | 0.96 | 0.17   | 2.88  | 1.25 | 1.25 | 0.22   | 5.07  | 1.54 | 1.54 | 0.27   | 7.13  | 1.82 | 1.82 | 0.31   | 9.47  |
|           |      | 19                | -                         | -    | -      | -     | 1.2  | 0.98 | 0.21   | 4.72  | 1.25 | 1.22 | 0.22   | 5.04  | 1.54 | 1.54 | 0.27   | 7.16  | 1.82 | 1.82 | 0.32   | 9.51  |
|           |      | 20                | -                         | -    | -      | -     | 1.67 | 0.99 | 0.29   | 8.18  | 1.66 | 1.27 | 0.29   | 8.13  | 1.67 | 1.55 | 0.29   | 8.18  | 1.82 | 1.81 | 0.32   | 9.52  |
|           | 6    | 15                | 0.53                      | 0.53 | 0.08   | 0.82  | 0.77 | 0.77 | 0.11   | 1.3   | 1.08 | 1.08 | 0.16   | 2.51  | 1.38 | 1.38 | 0.2    | 4.35  | 1.66 | 1.66 | 0.24   | 5.91  |
|           |      | 17                | 0.53                      | 0.53 | 0.08   | 0.83  | 0.77 | 0.77 | 0.11   | 1.3   | 1.08 | 1.08 | 0.16   | 2.53  | 1.39 | 1.39 | 0.2    | 4.37  | 1.67 | 1.67 | 0.24   | 5.93  |
|           |      | 19                | -                         | -    | -      | -     | 0.77 | 0.76 | 0.11   | 1.29  | 1.09 | 1.09 | 0.16   | 2.54  | 1.39 | 1.39 | 0.2    | 4.39  | 1.67 | 1.67 | 0.24   | 5.96  |
|           |      | 20                | -                         | -    | -      | -     | 1.21 | 0.82 | 0.17   | 3.31  | 1.21 | 1.1  | 0.17   | 3.28  | 1.39 | 1.37 | 0.2    | 4.39  | 1.67 | 1.67 | 0.24   | 5.97  |
| 13        | 3    | 15                | 0.7                       | 0.7  | 0.2    | 4.4   | 0.98 | 0.98 | 0.28   | 7.81  | 1.26 | 1.26 | 0.36   | 11.97 | 1.54 | 1.54 | 0.44   | 16.86 | 1.82 | 1.82 | 0.52   | 22.41 |



# Universal Fancoil DC

# MUC-W9 series

|    |    |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|----|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4  | 17 | 0.7  | 0.7  | 0.2  | 4.42 | 0.98 | 0.98 | 0.28 | 7.85  | 1.26 | 1.26 | 0.36 | 12.02 | 1.55 | 1.55 | 0.44 | 16.93 | 1.82 | 1.82 | 0.52 | 22.5  |
|    |    | 19 | -    | -    | -    | -    | 1.23 | 0.99 | 0.35 | 11.43 | 1.27 | 1.25 | 0.36 | 12.11 | 1.55 | 1.55 | 0.44 | 17.01 | 1.83 | 1.83 | 0.53 | 22.6  |
|    |    | 20 | -    | -    | -    | -    | 1.68 | 0.99 | 0.48 | 19.62 | 1.68 | 1.27 | 0.48 | 19.5  | 1.68 | 1.55 | 0.48 | 19.53 | 1.83 | 1.82 | 0.53 | 22.64 |
|    |    | 15 | 0.52 | 0.52 | 0.11 | 1.29 | 0.83 | 0.83 | 0.18 | 3.49  | 1.11 | 1.11 | 0.24 | 5.86  | 1.39 | 1.39 | 0.3  | 8.57  | 1.67 | 1.67 | 0.36 | 11.68 |
|    | 5  | 17 | 0.52 | 0.52 | 0.11 | 1.29 | 0.83 | 0.83 | 0.18 | 3.52  | 1.11 | 1.11 | 0.24 | 5.88  | 1.4  | 1.4  | 0.3  | 8.61  | 1.68 | 1.68 | 0.36 | 11.73 |
|    |    | 19 | -    | -    | -    | -    | 0.82 | 0.78 | 0.18 | 3.41  | 1.12 | 1.12 | 0.24 | 5.91  | 1.4  | 1.4  | 0.3  | 8.64  | 1.68 | 1.68 | 0.36 | 11.78 |
|    |    | 20 | -    | -    | -    | -    | 1.26 | 0.84 | 0.27 | 7.25  | 1.26 | 1.12 | 0.27 | 7.27  | 1.4  | 1.38 | 0.3  | 8.64  | 1.68 | 1.68 | 0.36 | 11.81 |
|    |    | 15 | 0.4  | 0.4  | 0.07 | 0.71 | 0.64 | 0.64 | 0.11 | 1.26  | 0.95 | 0.95 | 0.16 | 2.88  | 1.25 | 1.25 | 0.21 | 4.86  | 1.53 | 1.53 | 0.26 | 6.83  |
|    | 6  | 17 | 0.4  | 0.4  | 0.07 | 0.72 | 0.64 | 0.64 | 0.11 | 1.27  | 0.96 | 0.96 | 0.16 | 2.9   | 1.25 | 1.25 | 0.21 | 4.88  | 1.53 | 1.53 | 0.26 | 6.86  |
|    |    | 19 | -    | -    | -    | -    | 0.65 | 0.65 | 0.11 | 1.27  | 0.96 | 0.96 | 0.16 | 2.92  | 1.25 | 1.25 | 0.22 | 4.89  | 1.53 | 1.53 | 0.26 | 6.89  |
|    |    | 20 | -    | -    | -    | -    | 0.7  | 0.65 | 0.12 | 1.45  | 0.96 | 0.95 | 0.16 | 2.92  | 1.25 | 1.25 | 0.22 | 4.91  | 1.54 | 1.54 | 0.26 | 6.91  |
|    | 7  | 15 | 0.28 | 0.28 | 0.04 | 0.4  | 0.52 | 0.52 | 0.07 | 0.77  | 0.77 | 0.77 | 0.11 | 1.26  | 1.08 | 1.08 | 0.15 | 2.54  | 1.38 | 1.38 | 0.2  | 4.22  |
|    |    | 17 | 0.28 | 0.28 | 0.04 | 0.4  | 0.52 | 0.52 | 0.08 | 0.77  | 0.77 | 0.77 | 0.11 | 1.26  | 1.09 | 1.09 | 0.16 | 2.56  | 1.38 | 1.38 | 0.2  | 4.23  |
|    |    | 19 | -    | -    | -    | -    | 0.53 | 0.53 | 0.08 | 0.78  | 0.78 | 0.78 | 0.11 | 1.27  | 1.09 | 1.09 | 0.16 | 2.57  | 1.38 | 1.38 | 0.2  | 4.25  |
|    |    | 20 | -    | -    | -    | -    | 0.53 | 0.53 | 0.08 | 0.78  | 0.78 | 0.78 | 0.11 | 1.27  | 1.09 | 1.09 | 0.16 | 2.58  | 1.39 | 1.39 | 0.2  | 4.26  |
| 15 | 8  | 15 | 0.39 | 0.39 | 0.11 | 1.27 | 0.69 | 0.69 | 0.2  | 4.3   | 0.97 | 0.97 | 0.28 | 7.62  | 1.25 | 1.25 | 0.36 | 11.67 | 1.53 | 1.53 | 0.44 | 16.65 |
|    |    | 17 | 0.39 | 0.39 | 0.11 | 1.28 | 0.69 | 0.69 | 0.2  | 4.31  | 0.98 | 0.98 | 0.28 | 7.65  | 1.26 | 1.26 | 0.36 | 11.72 | 1.53 | 1.53 | 0.44 | 16.72 |
|    |    | 19 | -    | -    | -    | -    | 0.7  | 0.7  | 0.2  | 4.33  | 0.98 | 0.98 | 0.28 | 7.68  | 1.26 | 1.26 | 0.36 | 11.77 | 1.54 | 1.54 | 0.45 | 16.8  |
|    |    | 20 | -    | -    | -    | -    | 0.85 | 0.7  | 0.25 | 6.1   | 0.97 | 0.93 | 0.28 | 7.58  | 1.26 | 1.26 | 0.36 | 11.8  | 1.54 | 1.54 | 0.45 | 16.84 |
|    | 9  | 15 | 0.27 | 0.27 | 0.06 | 0.59 | 0.52 | 0.52 | 0.11 | 1.27  | 0.82 | 0.82 | 0.18 | 3.51  | 1.11 | 1.11 | 0.24 | 5.79  | 1.39 | 1.39 | 0.3  | 8.56  |
|    |    | 17 | 0.27 | 0.27 | 0.06 | 0.59 | 0.52 | 0.52 | 0.11 | 1.27  | 0.83 | 0.83 | 0.18 | 3.53  | 1.11 | 1.11 | 0.24 | 5.81  | 1.39 | 1.39 | 0.3  | 8.59  |
|    |    | 19 | -    | -    | -    | -    | 0.52 | 0.52 | 0.11 | 1.28  | 0.83 | 0.83 | 0.18 | 3.55  | 1.11 | 1.11 | 0.24 | 5.84  | 1.39 | 1.39 | 0.3  | 8.63  |
|    |    | 20 | -    | -    | -    | -    | 0.52 | 0.52 | 0.11 | 1.28  | 0.83 | 0.83 | 0.18 | 3.56  | 1.12 | 1.12 | 0.24 | 5.86  | 1.4  | 1.4  | 0.3  | 8.65  |
|    | 10 | 15 | 0.14 | 0.14 | 0.02 | 0.24 | 0.4  | 0.4  | 0.07 | 0.68  | 0.65 | 0.65 | 0.11 | 1.28  | 0.96 | 0.96 | 0.17 | 3.03  | 1.24 | 1.24 | 0.21 | 4.82  |
|    |    | 17 | 0.14 | 0.14 | 0.02 | 0.24 | 0.4  | 0.4  | 0.07 | 0.68  | 0.65 | 0.65 | 0.11 | 1.28  | 0.96 | 0.96 | 0.17 | 3.04  | 1.24 | 1.24 | 0.22 | 4.84  |
|    |    | 19 | -    | -    | -    | -    | 0.4  | 0.4  | 0.07 | 0.69  | 0.65 | 0.65 | 0.11 | 1.29  | 0.96 | 0.96 | 0.17 | 3.06  | 1.25 | 1.25 | 0.22 | 4.86  |
|    |    | 20 | -    | -    | -    | -    | 0.4  | 0.4  | 0.07 | 0.69  | 0.65 | 0.65 | 0.11 | 1.29  | 0.97 | 0.97 | 0.17 | 3.07  | 1.25 | 1.25 | 0.22 | 4.87  |
|    | 11 | 15 | -    | -    | -    | -    | 0.27 | 0.27 | 0.04 | 0.38  | 0.52 | 0.52 | 0.08 | 0.74  | 0.78 | 0.78 | 0.11 | 1.27  | 1.09 | 1.09 | 0.16 | 2.66  |
|    |    | 17 | -    | -    | -    | -    | 0.27 | 0.27 | 0.04 | 0.39  | 0.52 | 0.52 | 0.08 | 0.74  | 0.78 | 0.78 | 0.11 | 1.27  | 1.09 | 1.09 | 0.16 | 2.68  |
|    |    | 19 | -    | -    | -    | -    | 0.28 | 0.28 | 0.04 | 0.39  | 0.52 | 0.52 | 0.08 | 0.74  | 0.78 | 0.78 | 0.11 | 1.28  | 1.09 | 1.09 | 0.16 | 2.7   |
|    |    | 20 | -    | -    | -    | -    | 0.28 | 0.28 | 0.04 | 0.39  | 0.52 | 0.52 | 0.08 | 0.74  | 0.78 | 0.78 | 0.11 | 1.28  | 1.08 | 1.08 | 0.16 | 2.71  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    ΔT: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| MUC-11-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |  |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|--|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |        |      |      |         |        |      |      |         |        |  |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |  |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |  |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |  |
| 5         | 3    | 15                   | 3.31                      | 2.6  | 0.94    | 40.02 | 3.3  | 2.99 | 0.94    | 39.81 | 3.38 | 3.36 | 0.97    | 41.6   | 3.79 | 3.79 | 1.09    | 51.19  | 4.18 | 4.18 | 1.2     | 60.06  |  |
|           |      | 17                   | 4.46                      | 2.62 | 1.28    | 67.34 | 4.45 | 3.01 | 1.28    | 67.33 | 4.44 | 3.41 | 1.28    | 67.42  | 4.42 | 3.8  | 1.28    | 67.12  | 4.41 | 4.19 | 1.27    | 66.85  |  |
|           |      | 19                   | -                         | -    | -       | -     | 5.7  | 3.04 | 1.64    | 104.3 | 5.68 | 3.43 | 1.64    | 103.63 | 5.66 | 3.82 | 1.64    | 103.3  | 5.65 | 4.22 | 1.63    | 102.89 |  |
|           |      | 20                   | -                         | -    | -       | -     | 6.37 | 3.05 | 1.85    | 127.6 | 6.35 | 3.45 | 1.84    | 126.93 | 6.33 | 3.84 | 1.84    | 126.28 | 6.31 | 4.24 | 1.83    | 125.53 |  |
|           | 4    | 15                   | 2.86                      | 2.39 | 0.62    | 19.1  | 2.86 | 2.78 | 0.62    | 19.12 | 3.17 | 3.17 | 0.68    | 22.58  | 3.57 | 3.57 | 0.76    | 27.63  | 3.96 | 3.96 | 0.85    | 33.13  |  |
|           |      | 17                   | 4                         | 2.4  | 0.86    | 33.71 | 3.99 | 2.8  | 0.85    | 33.47 | 3.97 | 3.19 | 0.85    | 33.22  | 3.96 | 3.58 | 0.85    | 33.05  | 3.98 | 3.98 | 0.85    | 33.45  |  |
|           |      | 19                   | -                         | -    | -       | -     | 5.24 | 2.82 | 1.13    | 53.87 | 5.22 | 3.22 | 1.12    | 53.54  | 5.2  | 3.61 | 1.12    | 53.2   | 5.18 | 4    | 1.11    | 52.87  |  |
|           |      | 20                   | -                         | -    | -       | -     | 5.9  | 2.83 | 1.27    | 65.86 | 5.88 | 3.23 | 1.26    | 65.5   | 5.86 | 3.62 | 1.26    | 65.13  | 5.84 | 4.01 | 1.25    | 64.75  |  |
|           | 5    | 15                   | 2.38                      | 2.17 | 0.41    | 9.46  | 2.56 | 2.56 | 0.44    | 10.72 | 2.96 | 2.96 | 0.51    | 13.67  | 3.36 | 3.36 | 0.58    | 17.07  | 3.75 | 3.75 | 0.65    | 20.61  |  |
|           |      | 17                   | 3.54                      | 2.19 | 0.61    | 18.61 | 3.52 | 2.59 | 0.61    | 18.48 | 3.51 | 2.98 | 0.6     | 18.38  | 3.51 | 3.37 | 0.6     | 18.38  | 3.76 | 3.76 | 0.65    | 20.65  |  |
|           |      | 19                   | -                         | -    | -       | -     | 4.77 | 2.61 | 0.82    | 31.04 | 4.75 | 3    | 0.82    | 30.84  | 4.73 | 3.4  | 0.81    | 30.64  | 4.71 | 3.79 | 0.81    | 30.45  |  |
|           |      | 20                   | -                         | -    | -       | -     | 5.43 | 2.62 | 0.93    | 38.8  | 5.41 | 3.01 | 0.93    | 38.55  | 5.39 | 3.41 | 0.93    | 38.32  | 5.37 | 3.8  | 0.92    | 38.07  |  |
|           | 6    | 15                   | 1.91                      | 1.87 | 0.27    | 4.55  | 2.35 | 2.35 | 0.34    | 6.81  | 2.75 | 2.75 | 0.39    | 8.87   | 3.15 | 3.15 | 0.45    | 11.12  | 3.54 | 3.54 | 0.51    | 13.58  |  |
|           |      | 17                   | 3.04                      | 1.98 | 0.44    | 10.51 | 3.03 | 2.37 | 0.43    | 10.44 | 3.02 | 2.76 | 0.43    | 10.41  | 3.15 | 3.13 | 0.45    | 11.15  | 3.55 | 3.55 | 0.51    | 13.64  |  |
|           |      | 19                   | -                         | -    | -       | -     | 4.26 | 2.39 | 0.61    | 18.53 | 4.25 | 2.78 | 0.61    | 18.4   | 4.23 | 3.17 | 0.6     | 18.28  | 4.22 | 3.56 | 0.6     | 18.18  |  |
|           |      | 20                   | -                         | -    | -       | -     | 4.93 | 2.4  | 0.7     | 23.72 | 4.91 | 2.8  | 0.7     | 23.57  | 4.89 | 3.19 | 0.7     | 23.41  | 4.87 | 3.58 | 0.7     | 23.26  |  |
| 7         | 3    | 15                   | 2.41                      | 2.18 | 0.69    | 23.02 | 2.58 | 2.57 | 0.74    | 25.75 | 2.98 | 2.98 | 0.86    | 33.43  | 3.36 | 3.36 | 0.97    | 40.82  | 3.76 | 3.76 | 1.08    | 49.46  |  |

# Universal Fancoil DC

# MUC-W9 series

|   |    |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|----|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 | 4  | 17 | 3.55 | 2.2  | 1.02 | 44.76 | 3.53 | 2.59 | 1.01 | 44.44 | 3.52 | 2.98 | 1.01 | 44.16 | 3.52 | 3.38 | 1.01 | 44.08 | 3.77 | 3.77 | 1.08 | 49.66 |
|   |    | 19 | -    | -    | -    | -     | 4.78 | 2.61 | 1.37 | 75.09 | 4.76 | 3.01 | 1.37 | 74.61 | 4.74 | 3.4  | 1.36 | 74.11 | 4.72 | 3.79 | 1.36 | 73.64 |
|   |    | 20 | -    | -    | -    | -     | 5.45 | 2.63 | 1.58 | 95.97 | 5.42 | 3.02 | 1.56 | 93.89 | 5.4  | 3.41 | 1.56 | 93.3  | 5.38 | 3.8  | 1.55 | 92.77 |
|   |    | 15 | 1.97 | 1.96 | 0.43 | 10.08 | 2.37 | 2.37 | 0.51 | 13.7  | 2.76 | 2.76 | 0.59 | 17.61 | 3.15 | 3.15 | 0.68 | 22.13 | 3.55 | 3.55 | 0.76 | 27.06 |
|   | 5  | 17 | 3.07 | 1.99 | 0.66 | 21.08 | 3.05 | 2.38 | 0.66 | 20.93 | 3.05 | 2.77 | 0.65 | 20.85 | 3.16 | 3.14 | 0.68 | 22.17 | 3.56 | 3.56 | 0.76 | 27.17 |
|   |    | 19 | -    | -    | -    | -     | 4.29 | 2.4  | 0.92 | 37.51 | 4.27 | 2.79 | 0.92 | 37.25 | 4.25 | 3.18 | 0.92 | 37    | 4.24 | 3.57 | 0.91 | 36.76 |
|   |    | 20 | -    | -    | -    | -     | 4.96 | 2.41 | 1.07 | 48.6  | 4.94 | 2.81 | 1.07 | 48.29 | 4.92 | 3.2  | 1.06 | 47.99 | 4.9  | 3.59 | 1.06 | 47.68 |
|   |    | 15 | 1.76 | 1.76 | 0.3  | 5.61  | 2.16 | 2.16 | 0.37 | 7.96  | 2.55 | 2.55 | 0.44 | 10.53 | 2.94 | 2.94 | 0.51 | 13.37 | 3.34 | 3.34 | 0.57 | 16.54 |
|   | 6  | 17 | 2.57 | 1.77 | 0.44 | 10.63 | 2.56 | 2.17 | 0.44 | 10.58 | 2.59 | 2.57 | 0.45 | 10.78 | 2.95 | 2.95 | 0.51 | 13.42 | 3.35 | 3.35 | 0.57 | 16.61 |
|   |    | 19 | -    | -    | -    | -     | 3.79 | 2.19 | 0.65 | 20.53 | 3.77 | 2.58 | 0.65 | 20.39 | 3.9  | 2.9  | 0.67 | 37.4  | 3.75 | 3.36 | 0.64 | 20.17 |
|   |    | 20 | -    | -    | -    | -     | 4.46 | 2.2  | 0.77 | 27.31 | 4.44 | 2.6  | 0.77 | 27.13 | 4.42 | 2.99 | 0.76 | 26.94 | 4.41 | 3.38 | 0.76 | 26.77 |
|   |    | 15 | 1.47 | 1.47 | 0.21 | 2.52  | 1.94 | 1.94 | 0.28 | 4.75  | 2.34 | 2.34 | 0.34 | 6.64  | 2.74 | 2.74 | 0.39 | 8.64  | 3.13 | 3.13 | 0.45 | 10.85 |
|   | 7  | 17 | 2.03 | 1.55 | 0.29 | 5.21  | 2.03 | 1.95 | 0.29 | 5.21  | 2.35 | 2.35 | 0.34 | 6.67  | 2.74 | 2.74 | 0.39 | 8.68  | 3.14 | 3.14 | 0.45 | 10.89 |
|   |    | 19 | -    | -    | -    | -     | 3.27 | 1.98 | 0.47 | 11.7  | 3.26 | 2.37 | 0.47 | 11.62 | 3.25 | 2.76 | 0.47 | 11.57 | 3.26 | 3.15 | 0.47 | 11.65 |
|   |    | 20 | -    | -    | -    | -     | 3.93 | 1.99 | 0.56 | 15.97 | 3.91 | 2.38 | 0.56 | 15.85 | 3.9  | 2.77 | 0.56 | 15.74 | 3.88 | 3.16 | 0.56 | 15.65 |
|   |    | 15 | 1.77 | 1.77 | 0.51 | 13.32 | 2.17 | 2.17 | 0.62 | 18.78 | 2.56 | 2.56 | 0.73 | 24.99 | 2.95 | 2.95 | 0.84 | 31.92 | 3.35 | 3.35 | 0.96 | 39.61 |
|   | 8  | 17 | 2.59 | 1.79 | 0.74 | 25.51 | 2.58 | 2.18 | 0.74 | 25.36 | 2.6  | 2.58 | 0.74 | 25.68 | 2.96 | 2.96 | 0.85 | 32.05 | 3.35 | 3.35 | 0.96 | 39.77 |
|   |    | 19 | -    | -    | -    | -     | 3.81 | 2.2  | 1.1  | 50.33 | 3.8  | 2.59 | 1.1  | 49.94 | 3.78 | 2.98 | 1.09 | 49.61 | 3.77 | 3.37 | 1.09 | 49.37 |
|   |    | 20 | -    | -    | -    | -     | 4.46 | 2.2  | 1.28 | 65.29 | 4.44 | 2.6  | 1.27 | 64.84 | 4.42 | 2.99 | 1.27 | 64.38 | 4.41 | 3.38 | 1.27 | 64.16 |
|   |    | 15 | 1.56 | 1.56 | 0.34 | 6.63  | 1.96 | 1.96 | 0.42 | 9.72  | 2.35 | 2.35 | 0.5  | 13.17 | 2.75 | 2.75 | 0.59 | 17.22 | 3.14 | 3.14 | 0.67 | 21.6  |
|   | 9  | 17 | 2.09 | 1.58 | 0.45 | 10.79 | 2.09 | 1.97 | 0.45 | 10.83 | 2.36 | 2.36 | 0.51 | 13.22 | 2.75 | 2.75 | 0.59 | 17.29 | 3.15 | 3.15 | 0.68 | 21.69 |
|   |    | 19 | -    | -    | -    | -     | 3.3  | 1.99 | 0.71 | 23.66 | 3.29 | 2.38 | 0.71 | 23.49 | 3.28 | 2.77 | 0.71 | 23.37 | 3.29 | 3.16 | 0.71 | 23.47 |
|   |    | 20 | -    | -    | -    | -     | 3.94 | 1.99 | 0.85 | 31.82 | 3.92 | 2.38 | 0.84 | 31.59 | 3.91 | 2.78 | 0.84 | 31.36 | 3.9  | 3.17 | 0.84 | 31.18 |
|   |    | 15 | 1.32 | 1.32 | 0.23 | 2.98  | 1.75 | 1.75 | 0.3  | 5.45  | 2.15 | 2.15 | 0.37 | 7.68  | 2.54 | 2.54 | 0.44 | 10.21 | 2.93 | 2.93 | 0.5  | 13.01 |
|   | 10 | 17 | 1.52 | 1.35 | 0.26 | 4.22  | 1.75 | 1.74 | 0.3  | 5.47  | 2.15 | 2.15 | 0.37 | 7.72  | 2.55 | 2.55 | 0.44 | 10.25 | 2.94 | 2.94 | 0.5  | 13.06 |
|   |    | 19 | -    | -    | -    | -     | 2.76 | 1.77 | 0.47 | 11.78 | 2.75 | 2.17 | 0.47 | 11.71 | 2.76 | 2.56 | 0.47 | 11.74 | 2.94 | 2.93 | 0.51 | 13.11 |
|   |    | 20 | -    | -    | -    | -     | 3.41 | 1.79 | 0.59 | 16.88 | 3.4  | 2.18 | 0.58 | 16.76 | 3.39 | 2.57 | 0.58 | 16.64 | 3.38 | 2.95 | 0.58 | 16.58 |
|   |    | 15 | 1.05 | 1.05 | 0.15 | 1.35  | 1.49 | 1.49 | 0.21 | 2.65  | 1.93 | 1.93 | 0.28 | 4.73  | 2.33 | 2.33 | 0.33 | 6.49  | 2.72 | 2.72 | 0.39 | 8.43  |
|   | 11 | 17 | 1.05 | 1.05 | 0.15 | 1.36  | 1.5  | 1.5  | 0.22 | 2.67  | 1.94 | 1.94 | 0.28 | 4.75  | 2.34 | 2.34 | 0.34 | 6.52  | 2.73 | 2.73 | 0.39 | 8.47  |
|   |    | 19 | -    | -    | -    | -     | 2.21 | 1.56 | 0.32 | 5.93  | 2.21 | 1.95 | 0.32 | 5.92  | 2.33 | 2.3  | 0.33 | 6.51  | 2.74 | 2.74 | 0.39 | 8.5   |
|   |    | 20 | -    | -    | -    | -     | 2.87 | 1.58 | 0.41 | 9.2   | 2.85 | 1.97 | 0.41 | 9.12  | 2.85 | 2.35 | 0.41 | 9.08  | 2.87 | 2.75 | 0.41 | 9.2   |
|   |    | 15 | 0.97 | 0.97 | 0.28 | 4.71  | 1.36 | 1.36 | 0.39 | 8.34  | 1.75 | 1.75 | 0.5  | 12.58 | 2.15 | 2.15 | 0.62 | 18.02 | 2.53 | 2.53 | 0.73 | 23.96 |

Continued:

| MUC-11-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11        | 3    | 15                   | 1.38                      | 1.38 | 0.39    | 8.54  | 1.76 | 1.76 | 0.51    | 13.11 | 2.16 | 2.16 | 0.62    | 18.45 | 2.55 | 2.55 | 0.73    | 24.55 | 2.94 | 2.94 | 0.85    | 31.58 |
|           |      | 17                   | 1.59                      | 1.38 | 0.46    | 10.97 | 1.77 | 1.75 | 0.51    | 13.13 | 2.16 | 2.16 | 0.62    | 18.53 | 2.55 | 2.55 | 0.73    | 24.65 | 2.95 | 2.95 | 0.85    | 31.71 |
|           |      | 19                   | -                         | -    | -       | -     | 2.79 | 1.78 | 0.8     | 28.84 | 2.78 | 2.18 | 0.8     | 28.65 | 2.78 | 2.56 | 0.8     | 28.61 | 2.95 | 2.93 | 0.85    | 31.82 |
|           |      | 20                   | -                         | -    | -       | -     | 3.44 | 1.79 | 1       | 41.7  | 3.42 | 2.19 | 0.99    | 41.39 | 3.41 | 2.57 | 0.99    | 41.09 | 3.4  | 2.96 | 0.98    | 40.9  |
|           | 4    | 15                   | 1.16                      | 1.16 | 0.25    | 3.83  | 1.56 | 1.56 | 0.34    | 6.53  | 1.96 | 1.96 | 0.42    | 9.55  | 2.34 | 2.34 | 0.5     | 12.9  | 2.73 | 2.73 | 0.59    | 16.78 |
|           |      | 17                   | 1.14                      | 1.09 | 0.25    | 3.74  | 1.56 | 1.56 | 0.34    | 6.56  | 1.96 | 1.96 | 0.42    | 9.6   | 2.35 | 2.35 | 0.5     | 12.95 | 2.74 | 2.74 | 0.59    | 16.84 |
|           |      | 19                   | -                         | -    | -       | -     | 2.25 | 1.58 | 0.49    | 12.16 | 2.25 | 1.97 | 0.49    | 12.14 | 2.35 | 2.32 | 0.51    | 13    | 2.74 | 2.74 | 0.59    | 16.92 |
|           |      | 20                   | -                         | -    | -       | -     | 2.88 | 1.58 | 0.62    | 18.42 | 2.87 | 1.97 | 0.62    | 18.28 | 2.86 | 2.36 | 0.62    | 18.19 | 2.88 | 2.76 | 0.62    | 18.36 |
|           | 5    | 15                   | 0.88                      | 0.88 | 0.15    | 1.35  | 1.33 | 1.33 | 0.23    | 3.19  | 1.75 | 1.75 | 0.3     | 5.39  | 2.14 | 2.14 | 0.37    | 7.59  | 2.53 | 2.53 | 0.44    | 10.07 |
|           |      | 17                   | 0.88                      | 0.88 | 0.15    | 1.36  | 1.34 | 1.34 | 0.23    | 3.21  | 1.75 | 1.75 | 0.3     | 5.41  | 2.14 | 2.14 | 0.37    | 7.62  | 2.53 | 2.53 | 0.44    | 10.11 |
|           |      | 19                   | -                         | -    | -       | -     | 1.68 | 1.36 | 0.29    | 5.04  | 1.75 | 1.71 | 0.3     | 5.41  | 2.15 | 2.15 | 0.37    | 7.65  | 2.54 | 2.54 | 0.44    | 10.16 |
|           |      | 20                   | -                         | -    | -       | -     | 2.32 | 1.38 | 0.4     | 8.73  | 2.31 | 1.76 | 0.4     | 8.69  | 2.33 | 2.16 | 0.4     | 8.75  | 2.54 | 2.52 | 0.44    | 10.16 |
|           | 6    | 15                   | 0.72                      | 0.72 | 0.1     | 0.83  | 1.05 | 1.05 | 0.15    | 1.34  | 1.51 | 1.51 | 0.22    | 2.79  | 1.93 | 1.93 | 0.28    | 4.66  | 2.32 | 2.32 | 0.33    | 6.31  |
|           |      | 17                   | 0.72                      | 0.72 | 0.1     | 0.84  | 1.06 | 1.06 | 0.15    | 1.34  | 1.51 | 1.51 | 0.22    | 2.8   | 1.93 | 1.93 | 0.28    | 4.68  | 2.32 | 2.32 | 0.33    | 6.34  |
|           |      | 19                   | -                         | -    | -       | -     | 1.06 | 1.05 | 0.15    | 1.34  | 1.52 | 1.52 | 0.22    | 2.82  | 1.95 | 1.95 | 0.28    | 4.71  | 2.33 | 2.33 | 0.33    | 6.37  |
|           |      | 20                   | -                         | -    | -       | -     | 1.7  | 1.15 | 0.25    | 3.7   | 1.7  | 1.54 | 0.24    | 3.69  | 1.94 | 1.91 | 0.28    | 4.7   | 2.33 | 2.33 | 0.33    | 6.38  |
| 13        | 3    | 15                   | 0.97                      | 0.97 | 0.28    | 4.71  | 1.36 | 1.36 | 0.39    | 8.34  | 1.75 | 1.75 | 0.5     | 12.58 | 2.15 | 2.15 | 0.62    | 18.02 | 2.53 | 2.53 | 0.73    | 23.96 |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 0.97 | 0.97 | 0.28 | 4.72 | 1.37 | 1.37 | 0.39 | 8.38  | 1.75 | 1.75 | 0.5  | 12.64 | 2.15 | 2.15 | 0.62 | 18.09 | 2.54 | 2.54 | 0.73 | 24.06 |
|    |   | 19 | -    | -    | -    | -    | 1.71 | 1.37 | 0.49 | 12.18 | 1.76 | 1.74 | 0.5  | 12.73 | 2.16 | 2.16 | 0.62 | 18.17 | 2.55 | 2.55 | 0.73 | 24.16 |
|    |   | 20 | -    | -    | -    | -    | 2.34 | 1.38 | 0.67 | 20.95 | 2.33 | 1.77 | 0.67 | 20.82 | 2.34 | 2.16 | 0.67 | 20.88 | 2.55 | 2.53 | 0.73 | 24.2  |
|    |   | 15 | 0.71 | 0.71 | 0.15 | 1.33 | 1.16 | 1.16 | 0.25 | 3.83  | 1.55 | 1.55 | 0.33 | 6.26  | 1.95 | 1.95 | 0.42 | 9.15  | 2.33 | 2.33 | 0.5  | 12.49 |
|    |   | 17 | 0.71 | 0.71 | 0.15 | 1.33 | 1.16 | 1.16 | 0.25 | 3.85  | 1.55 | 1.55 | 0.33 | 6.29  | 1.94 | 1.94 | 0.42 | 9.2   | 2.33 | 2.33 | 0.5  | 12.54 |
|    |   | 19 | -    | -    | -    | -    | 1.15 | 1.12 | 0.25 | 3.8   | 1.56 | 1.56 | 0.33 | 6.31  | 1.95 | 1.95 | 0.42 | 9.24  | 2.34 | 2.34 | 0.5  | 12.59 |
|    |   | 20 | -    | -    | -    | -    | 1.76 | 1.17 | 0.38 | 7.75  | 1.76 | 1.56 | 0.38 | 7.78  | 1.94 | 1.91 | 0.42 | 9.19  | 2.34 | 2.34 | 0.5  | 12.63 |
|    |   | 15 | 0.54 | 0.54 | 0.09 | 0.72 | 0.88 | 0.88 | 0.15 | 1.31  | 1.34 | 1.34 | 0.23 | 3.2   | 1.74 | 1.74 | 0.3  | 5.19  | 2.13 | 2.13 | 0.36 | 7.3   |
|    |   | 17 | 0.54 | 0.54 | 0.09 | 0.73 | 0.88 | 0.88 | 0.15 | 1.31  | 1.34 | 1.34 | 0.23 | 3.22  | 1.75 | 1.75 | 0.3  | 5.21  | 2.13 | 2.13 | 0.37 | 7.33  |
|    |   | 19 | -    | -    | -    | -    | 0.88 | 0.88 | 0.15 | 1.32  | 1.34 | 1.34 | 0.23 | 3.24  | 1.74 | 1.74 | 0.3  | 5.23  | 2.14 | 2.14 | 0.37 | 7.36  |
|    |   | 20 | -    | -    | -    | -    | 0.93 | 0.9  | 0.16 | 1.45  | 1.34 | 1.31 | 0.23 | 3.23  | 1.75 | 1.75 | 0.3  | 5.25  | 2.14 | 2.14 | 0.37 | 7.38  |
|    |   | 15 | 0.38 | 0.38 | 0.05 | 0.41 | 0.71 | 0.71 | 0.1  | 0.78  | 1.06 | 1.06 | 0.15 | 1.31  | 1.51 | 1.51 | 0.22 | 2.82  | 1.92 | 1.92 | 0.27 | 4.51  |
|    |   | 17 | 0.37 | 0.37 | 0.05 | 0.42 | 0.71 | 0.71 | 0.1  | 0.78  | 1.06 | 1.06 | 0.15 | 1.32  | 1.52 | 1.52 | 0.22 | 2.84  | 1.92 | 1.92 | 0.28 | 4.52  |
|    |   | 19 | -    | -    | -    | -    | 0.71 | 0.71 | 0.1  | 0.79  | 1.06 | 1.06 | 0.15 | 1.32  | 1.52 | 1.52 | 0.22 | 2.86  | 1.93 | 1.93 | 0.28 | 4.54  |
|    |   | 20 | -    | -    | -    | -    | 0.72 | 0.72 | 0.1  | 0.79  | 1.06 | 1.06 | 0.15 | 1.32  | 1.52 | 1.52 | 0.22 | 2.87  | 1.93 | 1.93 | 0.28 | 4.55  |
|    | 3 | 15 | 0.53 | 0.53 | 0.15 | 1.32 | 0.97 | 0.97 | 0.28 | 4.59  | 1.36 | 1.36 | 0.39 | 8.14  | 1.75 | 1.75 | 0.51 | 12.68 | 2.13 | 2.13 | 0.62 | 17.81 |
|    |   | 17 | 0.53 | 0.53 | 0.15 | 1.33 | 0.97 | 0.97 | 0.28 | 4.61  | 1.36 | 1.36 | 0.39 | 8.17  | 1.75 | 1.75 | 0.51 | 12.73 | 2.14 | 2.14 | 0.62 | 17.88 |
|    |   | 19 | -    | -    | -    | -    | 1    | 1    | 0.28 | 4.64  | 1.36 | 1.36 | 0.39 | 8.21  | 1.76 | 1.76 | 0.51 | 12.79 | 2.14 | 2.14 | 0.62 | 17.95 |
|    |   | 20 | -    | -    | -    | -    | 1.19 | 0.97 | 0.34 | 6.52  | 1.36 | 1.31 | 0.39 | 8.12  | 1.76 | 1.76 | 0.51 | 12.81 | 2.15 | 2.15 | 0.62 | 18    |
|    | 4 | 15 | 0.36 | 0.36 | 0.08 | 0.59 | 0.71 | 0.71 | 0.15 | 1.33  | 1.14 | 1.14 | 0.25 | 3.79  | 1.54 | 1.54 | 0.33 | 6.19  | 1.94 | 1.94 | 0.42 | 9.14  |
|    |   | 17 | 0.37 | 0.37 | 0.08 | 0.6  | 0.71 | 0.71 | 0.15 | 1.33  | 1.15 | 1.15 | 0.25 | 3.8   | 1.55 | 1.55 | 0.33 | 6.21  | 1.94 | 1.94 | 0.42 | 9.18  |
|    |   | 19 | -    | -    | -    | -    | 0.71 | 0.71 | 0.15 | 1.34  | 1.16 | 1.16 | 0.25 | 3.82  | 1.55 | 1.55 | 0.33 | 6.24  | 1.95 | 1.95 | 0.42 | 9.22  |
|    |   | 20 | -    | -    | -    | -    | 0.71 | 0.71 | 0.15 | 1.34  | 1.16 | 1.16 | 0.25 | 3.83  | 1.56 | 1.56 | 0.34 | 6.25  | 1.95 | 1.95 | 0.42 | 9.24  |
|    | 5 | 15 | 0.2  | 0.2  | 0.03 | 0.25 | 0.54 | 0.54 | 0.09 | 0.69  | 0.89 | 0.89 | 0.15 | 1.34  | 1.36 | 1.36 | 0.23 | 3.3   | 1.73 | 1.73 | 0.3  | 5.15  |
|    |   | 17 | 0.2  | 0.2  | 0.03 | 0.25 | 0.54 | 0.54 | 0.09 | 0.69  | 0.89 | 0.89 | 0.15 | 1.35  | 1.36 | 1.36 | 0.23 | 3.33  | 1.73 | 1.73 | 0.3  | 5.17  |
|    |   | 19 | -    | -    | -    | -    | 0.54 | 0.54 | 0.09 | 0.7   | 0.9  | 0.9  | 0.16 | 1.36  | 1.34 | 1.34 | 0.23 | 3.35  | 1.74 | 1.74 | 0.3  | 5.19  |
|    |   | 20 | -    | -    | -    | -    | 0.54 | 0.54 | 0.09 | 0.7   | 0.9  | 0.9  | 0.16 | 1.36  | 1.35 | 1.35 | 0.23 | 3.36  | 1.74 | 1.74 | 0.3  | 5.21  |
|    | 6 | 15 | -    | -    | -    | -    | 0.38 | 0.38 | 0.05 | 0.39  | 0.71 | 0.71 | 0.1  | 0.75  | 1.07 | 1.07 | 0.15 | 1.34  | 1.52 | 1.52 | 0.22 | 2.95  |
|    |   | 17 | -    | -    | -    | -    | 0.38 | 0.38 | 0.05 | 0.39  | 0.71 | 0.71 | 0.1  | 0.75  | 1.07 | 1.07 | 0.15 | 1.35  | 1.52 | 1.52 | 0.22 | 2.96  |
|    |   | 19 | -    | -    | -    | -    | 0.38 | 0.38 | 0.05 | 0.4   | 0.71 | 0.71 | 0.1  | 0.75  | 1.08 | 1.08 | 0.15 | 1.36  | 1.53 | 1.53 | 0.22 | 2.98  |
|    |   | 20 | -    | -    | -    | -    | 0.38 | 0.38 | 0.05 | 0.4   | 0.71 | 0.71 | 0.1  | 0.75  | 1.08 | 1.08 | 0.16 | 1.36  | 1.53 | 1.53 | 0.22 | 2.99  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| MUC-16-W9 |      |                      |                           |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|-----------|------|----------------------|---------------------------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|------|------|---------|--------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |      |      |         |        |
|           |      |                      | 21                        |      |         |        | 23   |      |         |        | 25   |      |         |        | 27   |      |         |        | 29   |      |         |        |
|           |      |                      | TC                        | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    | TC   | SC   | WF      | WPD    |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  | [kW] | [kW] | [m^3/h] | [kPa]  |
| 5         | 3    | 15                   | 4.24                      | 3.33 | 1.22    | 62.41  | 4.22 | 3.83 | 1.22    | 62     | 4.33 | 4.32 | 1.25    | 64.88  | 4.83 | 4.83 | 1.39    | 77.51  | 5.34 | 5.34 | 1.54    | 93.41  |
|           |      | 17                   | 5.71                      | 3.34 | 1.65    | 104.64 | 5.69 | 3.85 | 1.64    | 103.95 | 5.67 | 4.36 | 1.64    | 103.58 | 5.64 | 4.86 | 1.63    | 102.87 | 5.62 | 5.35 | 1.61    | 100.45 |
|           |      | 19                   | -                         | -    | -       | -      | 7.27 | 3.87 | 2.1     | 159.37 | 7.25 | 4.38 | 2.09    | 158.55 | 7.23 | 4.88 | 2.08    | 157.72 | 7.21 | 5.39 | 2.08    | 156.84 |
|           |      | 20                   | -                         | -    | -       | -      | 8.13 | 3.89 | 2.34    | 193.26 | 8.1  | 4.4  | 2.33    | 192.27 | 8.07 | 4.9  | 2.33    | 191.3  | 8.05 | 5.4  | 2.32    | 190.32 |
|           | 4    | 15                   | 3.64                      | 3.05 | 0.78    | 28.65  | 3.66 | 3.56 | 0.78    | 28.91  | 4.06 | 4.06 | 0.87    | 34.59  | 4.56 | 4.56 | 0.98    | 42.34  | 5.07 | 5.07 | 1.09    | 50.68  |
|           |      | 17                   | 5.12                      | 3.07 | 1.1     | 51.65  | 5.1  | 3.57 | 1.09    | 51.2   | 5.07 | 4.08 | 1.09    | 50.78  | 5.06 | 4.58 | 1.08    | 50.48  | 5.12 | 5.09 | 1.1     | 51.68  |
|           |      | 19                   | -                         | -    | -       | -      | 6.69 | 3.6  | 1.44    | 82.16  | 6.67 | 4.1  | 1.43    | 81.71  | 6.64 | 4.61 | 1.43    | 81.22  | 6.62 | 5.11 | 1.42    | 80.67  |
|           |      | 20                   | -                         | -    | -       | -      | 7.53 | 3.61 | 1.62    | 101.18 | 7.51 | 4.12 | 1.62    | 100.79 | 7.49 | 4.62 | 1.62    | 100.7  | 7.47 | 5.13 | 1.61    | 100.44 |
|           | 5    | 15                   | 3.06                      | 2.78 | 0.53    | 14.62  | 3.29 | 3.28 | 0.57    | 16.46  | 3.79 | 3.79 | 0.65    | 20.81  | 4.29 | 4.29 | 0.74    | 25.78  | 4.8  | 4.8  | 0.83    | 31.5   |
|           |      | 17                   | 4.53                      | 2.8  | 0.78    | 28.46  | 4.49 | 3.3  | 0.77    | 27.86  | 4.47 | 3.8  | 0.77    | 27.66  | 4.49 | 4.31 | 0.77    | 27.84  | 4.81 | 4.81 | 0.83    | 31.6   |
|           |      | 19                   | -                         | -    | -       | -      | 6.08 | 3.32 | 1.04    | 46.96  | 6.06 | 3.83 | 1.04    | 46.67  | 6.04 | 4.33 | 1.04    | 46.34  | 6.01 | 4.83 | 1.03    | 46     |
|           |      | 20                   | -                         | -    | -       | -      | 6.93 | 3.34 | 1.19    | 59.17  | 6.92 | 3.85 | 1.19    | 59.04  | 6.9  | 4.36 | 1.19    | 58.84  | 6.87 | 4.86 | 1.19    | 58.47  |
|           | 6    | 15                   | 2.51                      | 2.51 | 0.36    | 7.62   | 3.01 | 3.01 | 0.43    | 10.36  | 3.52 | 3.52 | 0.5     | 13.5   | 4.02 | 4.02 | 0.57    | 16.8   | 4.53 | 4.53 | 0.65    | 20.57  |
|           |      | 17                   | 3.89                      | 2.53 | 0.56    | 16     | 3.88 | 3.03 | 0.56    | 15.87  | 3.88 | 3.53 | 0.56    | 15.87  | 4.05 | 4.04 | 0.58    | 17     | 4.54 | 4.54 | 0.65    | 20.64  |
|           |      | 19                   | -                         | -    | -       | -      | 5.47 | 3.06 | 0.78    | 28.36  | 5.44 | 3.56 | 0.78    | 28.14  | 5.42 | 4.06 | 0.77    | 27.92  | 5.4  | 4.56 | 0.77    | 27.74  |
|           |      | 20                   | -                         | -    | -       | -      | 6.3  | 3.07 | 0.9     | 36.24  | 6.28 | 3.57 | 0.9     | 36.04  | 6.26 | 4.07 | 0.89    | 35.79  | 6.23 | 4.57 | 0.89    | 35.53  |
| 7         | 3    | 15                   | 3.1                       | 2.8  | 0.9     | 35.88  | 3.3  | 3.29 | 0.95    | 40.02  | 3.81 | 3.81 | 1.1     | 51.05  | 4.31 | 4.31 | 1.24    | 62.79  | 4.81 | 4.81 | 1.38    | 76.11  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |        |      |      |      |        |      |      |      |        |      |      |      |        |
|---|---|----|------|------|------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|
| 9 | 4 | 17 | 4.56 | 2.82 | 1.32 | 70.28 | 4.54 | 3.32 | 1.31 | 69.62  | 4.52 | 3.82 | 1.31 | 69.08  | 4.51 | 4.32 | 1.3  | 68.44  | 4.82 | 4.82 | 1.39 | 76.39  |
|   |   | 19 | -    | -    | -    | -     | 6.13 | 3.34 | 1.78 | 118.38 | 6.11 | 3.85 | 1.78 | 117.67 | 6.07 | 4.35 | 1.75 | 114.85 | 6.04 | 4.85 | 1.75 | 114.07 |
|   |   | 20 | -    | -    | -    | -     | 6.97 | 3.35 | 2.03 | 148.58 | 6.95 | 3.86 | 2.03 | 147.83 | 6.92 | 4.37 | 2.02 | 147    | 6.9  | 4.87 | 2.01 | 146.22 |
|   |   | 15 | 2.56 | 2.54 | 0.55 | 15.67 | 3.03 | 3.03 | 0.65 | 20.68  | 3.54 | 3.54 | 0.76 | 26.94  | 4.05 | 4.05 | 0.87 | 34.28  | 4.55 | 4.55 | 0.98 | 41.95  |
|   |   | 17 | 3.94 | 2.55 | 0.85 | 32.76 | 3.92 | 3.05 | 0.85 | 32.47  | 3.91 | 3.55 | 0.85 | 32.37  | 4.07 | 4.07 | 0.88 | 34.6   | 4.56 | 4.56 | 0.99 | 42.11  |
|   |   | 19 | -    | -    | -    | -     | 5.5  | 3.07 | 1.18 | 57.83  | 5.47 | 3.57 | 1.18 | 57.39  | 5.45 | 4.07 | 1.17 | 56.94  | 5.42 | 4.57 | 1.17 | 56.5   |
|   |   | 20 | -    | -    | -    | -     | 6.34 | 3.08 | 1.37 | 74.53  | 6.32 | 3.59 | 1.37 | 74.09  | 6.3  | 4.09 | 1.36 | 73.6   | 6.27 | 4.59 | 1.36 | 73.05  |
|   |   | 15 | 2.27 | 2.27 | 0.39 | 8.6   | 2.76 | 2.76 | 0.47 | 12.01  | 3.27 | 3.27 | 0.56 | 16     | 3.77 | 3.77 | 0.65 | 20.43  | 4.28 | 4.28 | 0.74 | 25.3   |
|   |   | 17 | 3.29 | 2.27 | 0.56 | 16.13 | 3.28 | 2.77 | 0.56 | 16.04  | 3.36 | 3.29 | 0.58 | 16.72  | 3.78 | 3.78 | 0.65 | 20.51  | 4.29 | 4.29 | 0.74 | 25.39  |
|   |   | 19 | -    | -    | -    | -     | 4.87 | 2.8  | 0.84 | 31.82  | 4.84 | 3.31 | 0.84 | 31.55  | 4.85 | 3.63 | 0.83 | 54.3   | 4.81 | 4.31 | 0.83 | 31.22  |
|   |   | 20 | -    | -    | -    | -     | 5.71 | 2.82 | 0.99 | 41.93  | 5.69 | 3.32 | 0.98 | 41.64  | 5.65 | 3.82 | 0.97 | 40.84  | 5.62 | 4.32 | 0.97 | 40.51  |
|   |   | 15 | 1.97 | 1.97 | 0.28 | 4.9   | 2.49 | 2.49 | 0.36 | 7.41   | 3    | 3    | 0.43 | 10.14  | 3.51 | 3.51 | 0.5  | 13.14  | 4.01 | 4.01 | 0.58 | 16.58  |
|   |   | 17 | 2.62 | 2    | 0.38 | 8.04  | 2.65 | 2.51 | 0.38 | 8.21   | 3.01 | 3    | 0.43 | 10.18  | 3.52 | 3.52 | 0.5  | 13.19  | 4.02 | 4.02 | 0.58 | 16.64  |
|   |   | 19 | -    | -    | -    | -     | 4.21 | 2.53 | 0.6  | 17.97  | 4.18 | 3.04 | 0.6  | 17.84  | 4.17 | 3.54 | 0.6  | 17.76  | 4.23 | 4.05 | 0.61 | 18.15  |
|   |   | 20 | -    | -    | -    | -     | 5.04 | 2.55 | 0.73 | 24.55  | 5.02 | 3.05 | 0.72 | 24.35  | 5    | 3.55 | 0.72 | 24.15  | 4.98 | 4.05 | 0.72 | 24     |
|   | 5 | 15 | 2.27 | 2.27 | 0.65 | 20.39 | 2.78 | 2.78 | 0.8  | 29.22  | 3.28 | 3.28 | 0.94 | 38.36  | 3.79 | 3.79 | 1.09 | 49.78  | 4.29 | 4.29 | 1.24 | 61.88  |
|   |   | 17 | 3.32 | 2.29 | 0.95 | 39.13 | 3.31 | 2.79 | 0.95 | 38.84  | 3.35 | 3.3  | 0.96 | 39.73  | 3.8  | 3.8  | 1.09 | 49.97  | 4.3  | 4.3  | 1.24 | 62.11  |
|   |   | 19 | -    | -    | -    | -     | 4.88 | 2.81 | 1.4  | 76.46  | 4.86 | 3.31 | 1.39 | 75.97  | 4.84 | 3.81 | 1.39 | 75.85  | 4.82 | 4.31 | 1.39 | 75.79  |
|   |   | 20 | -    | -    | -    | -     | 5.73 | 2.82 | 1.66 | 102.91 | 5.71 | 3.33 | 1.65 | 102.19 | 5.68 | 3.83 | 1.65 | 101.39 | 5.66 | 4.33 | 1.64 | 100.53 |
|   |   | 15 | 2.01 | 2.01 | 0.43 | 10.14 | 2.52 | 2.52 | 0.54 | 14.85  | 3.02 | 3.02 | 0.65 | 20.39  | 3.52 | 3.52 | 0.76 | 26.51  | 4.02 | 4.02 | 0.86 | 32.96  |
|   |   | 17 | 2.68 | 2.02 | 0.58 | 16.47 | 2.7  | 2.53 | 0.58 | 16.68  | 3.03 | 3.02 | 0.65 | 20.45  | 3.53 | 3.53 | 0.76 | 26.61  | 4.03 | 4.03 | 0.86 | 33.08  |
|   |   | 19 | -    | -    | -    | -     | 4.22 | 2.54 | 0.91 | 35.86  | 4.2  | 3.04 | 0.9  | 35.54  | 4.19 | 3.54 | 0.9  | 35.31  | 4.22 | 4.05 | 0.9  | 35.76  |
|   |   | 20 | -    | -    | -    | -     | 5.06 | 2.55 | 1.09 | 49     | 5.03 | 3.05 | 1.08 | 48.6   | 5.01 | 3.55 | 1.08 | 48.2   | 4.99 | 4.05 | 1.07 | 47.85  |
|   |   | 15 | 1.73 | 1.73 | 0.3  | 5.38  | 2.25 | 2.25 | 0.39 | 8.33   | 2.76 | 2.76 | 0.47 | 11.74  | 3.26 | 3.26 | 0.56 | 15.61  | 3.76 | 3.76 | 0.65 | 19.93  |
|   |   | 17 | 1.99 | 1.75 | 0.34 | 6.79  | 2.26 | 2.24 | 0.39 | 8.37   | 2.76 | 2.76 | 0.47 | 11.79  | 3.27 | 3.27 | 0.56 | 15.67  | 3.77 | 3.77 | 0.65 | 20     |
|   |   | 19 | -    | -    | -    | -     | 3.55 | 2.27 | 0.61 | 18.02  | 3.53 | 2.78 | 0.61 | 17.89  | 3.55 | 3.28 | 0.61 | 18.06  | 3.79 | 3.78 | 0.65 | 20.23  |
|   |   | 20 | -    | -    | -    | -     | 4.38 | 2.29 | 0.75 | 25.9   | 4.36 | 2.79 | 0.75 | 25.67  | 4.34 | 3.29 | 0.75 | 25.46  | 4.33 | 3.78 | 0.74 | 25.39  |
|   | 6 | 15 | 1.34 | 1.34 | 0.19 | 2.08  | 1.98 | 1.98 | 0.28 | 4.91   | 2.49 | 2.49 | 0.36 | 7.26   | 3    | 3    | 0.43 | 9.93   | 3.5  | 3.5  | 0.5  | 12.84  |
|   |   | 17 | 1.34 | 1.34 | 0.19 | 2.09  | 1.98 | 1.98 | 0.28 | 4.93   | 2.5  | 2.5  | 0.36 | 7.29   | 3    | 3    | 0.43 | 9.97   | 3.5  | 3.5  | 0.5  | 12.87  |
|   |   | 19 | -    | -    | -    | -     | 2.84 | 2.01 | 0.41 | 9.08   | 2.85 | 2.51 | 0.41 | 9.14   | 3.06 | 3.03 | 0.44 | 10.28  | 3.51 | 3.51 | 0.5  | 12.92  |
|   |   | 20 | -    | -    | -    | -     | 3.67 | 2.02 | 0.53 | 13.94  | 3.65 | 2.52 | 0.52 | 13.82  | 3.65 | 3.02 | 0.52 | 13.78  | 3.72 | 3.54 | 0.53 | 14.28  |

Continued:

| MUC-16-W9 |      |                      |                           |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|-----------|------|----------------------|---------------------------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|------|------|---------|-------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |      |      |         |       |
|           |      |                      | 21                        |      |         |       | 23   |      |         |       | 25   |      |         |       | 27   |      |         |       | 29   |      |         |       |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   | TC   | SC   | WF      | WPD   |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] | [kW] | [kW] | [m^3/h] | [kPa] |
| 11        | 3    | 15                   | 1.76                      | 1.76 | 0.51    | 13.07 | 2.26 | 2.26 | 0.65    | 20.08 | 2.77 | 2.77 | 0.8     | 28.52 | 3.27 | 3.27 | 0.95    | 38.3  | 3.76 | 3.76 | 1.08    | 48.26 |
|           |      | 17                   | 2.04                      | 1.77 | 0.59    | 16.8  | 2.27 | 2.25 | 0.65    | 20.15 | 2.77 | 2.77 | 0.8     | 28.63 | 3.28 | 3.28 | 0.95    | 38.44 | 3.77 | 3.77 | 1.09    | 48.44 |
|           |      | 19                   | -                         | -    | -       | -     | 3.56 | 2.28 | 1.03    | 43.89 | 3.55 | 2.78 | 1.02    | 43.52 | 3.55 | 3.28 | 1.02    | 43.59 | 3.78 | 3.77 | 1.09    | 48.65 |
|           |      | 20                   | -                         | -    | -       | -     | 4.42 | 2.3  | 1.28    | 64.61 | 4.39 | 2.8  | 1.27    | 64.01 | 4.37 | 3.3  | 1.27    | 63.44 | 4.34 | 3.79 | 1.25    | 61.97 |
|           | 4    | 15                   | 1.49                      | 1.49 | 0.32    | 6.1   | 2.01 | 2.01 | 0.43    | 10.01 | 2.5  | 2.5  | 0.54    | 14.5  | 3.01 | 3.01 | 0.65    | 19.81 | 3.51 | 3.51 | 0.75    | 25.77 |
|           |      | 17                   | 1.5                       | 1.47 | 0.32    | 6.1   | 2.01 | 2.01 | 0.43    | 10.05 | 2.51 | 2.51 | 0.54    | 14.55 | 3.01 | 3.01 | 0.65    | 19.88 | 3.51 | 3.51 | 0.76    | 25.87 |
|           |      | 19                   | -                         | -    | -       | -     | 2.88 | 2.02 | 0.62    | 18.36 | 2.88 | 2.52 | 0.62    | 18.38 | 3.05 | 3.04 | 0.66    | 20.34 | 3.52 | 3.52 | 0.76    | 25.97 |
|           |      | 20                   | -                         | -    | -       | -     | 3.71 | 2.03 | 0.8     | 28.49 | 3.69 | 2.53 | 0.8     | 28.18 | 3.68 | 3.03 | 0.79    | 28.01 | 3.72 | 3.54 | 0.8     | 28.57 |
|           | 5    | 15                   | 1.14                      | 1.14 | 0.2     | 2.22  | 1.74 | 1.74 | 0.3     | 5.36  | 2.24 | 2.24 | 0.39    | 8.25  | 2.75 | 2.75 | 0.47    | 11.62 | 3.25 | 3.25 | 0.56    | 15.47 |
|           |      | 17                   | 1.15                      | 1.15 | 0.2     | 2.24  | 1.74 | 1.74 | 0.3     | 5.38  | 2.25 | 2.25 | 0.39    | 8.28  | 2.76 | 2.76 | 0.48    | 11.67 | 3.26 | 3.26 | 0.56    | 15.52 |
|           |      | 19                   | -                         | -    | -       | -     | 2.16 | 1.75 | 0.37    | 7.74  | 2.31 | 2.28 | 0.4     | 8.66  | 2.76 | 2.76 | 0.48    | 11.71 | 3.26 | 3.26 | 0.56    | 15.58 |
|           |      | 20                   | -                         | -    | -       | -     | 2.97 | 1.76 | 0.51    | 13.17 | 2.96 | 2.26 | 0.51    | 13.09 | 3    | 2.77 | 0.52    | 13.4  | 3.29 | 3.28 | 0.57    | 15.77 |
|           | 6    | 15                   | 0.85                      | 0.85 | 0.12    | 1     | 1.38 | 1.38 | 0.2     | 2.26  | 1.98 | 1.98 | 0.28    | 4.86  | 2.48 | 2.48 | 0.36    | 7.09  | 2.98 | 2.98 | 0.43    | 9.68  |
|           |      | 17                   | 0.85                      | 0.85 | 0.12    | 1     | 1.38 | 1.38 | 0.2     | 2.27  | 1.98 | 1.98 | 0.28    | 4.88  | 2.49 | 2.49 | 0.36    | 7.11  | 2.99 | 2.99 | 0.43    | 9.72  |
|           |      | 19                   | -                         | -    | -       | -     | 1.36 | 1.33 | 0.2     | 2.23  | 1.98 | 1.98 | 0.29    | 4.9   | 2.49 | 2.49 | 0.36    | 7.14  | 3    | 3    | 0.43    | 9.76  |
|           |      | 20                   | -                         | -    | -       | -     | 2.2  | 1.49 | 0.32    | 5.8   | 2.23 | 1.99 | 0.32    | 5.91  | 2.52 | 2.51 | 0.36    | 7.27  | 3    | 3    | 0.43    | 9.78  |
| 13        | 3    | 15                   | 1.25                      | 1.25 | 0.36    | 7.2   | 1.74 | 1.74 | 0.5     | 12.57 | 2.26 | 2.26 | 0.65    | 19.67 | 2.75 | 2.75 | 0.78    | 27.3  | 3.25 | 3.25 | 0.93    | 36.44 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.25 | 1.25 | 0.36 | 7.23 | 1.75 | 1.75 | 0.5  | 12.62 | 2.26 | 2.26 | 0.65 | 19.74 | 2.76 | 2.76 | 0.79 | 27.41 | 3.26 | 3.26 | 0.93 | 36.57 |
|    |   | 19 | -    | -    | -    | -    | 2.2  | 1.77 | 0.63 | 18.78 | 2.3  | 2.29 | 0.66 | 20.32 | 2.76 | 2.76 | 0.79 | 27.52 | 3.26 | 3.26 | 0.93 | 36.72 |
|    |   | 20 | -    | -    | -    | -    | 3.01 | 1.77 | 0.86 | 32.02 | 2.99 | 2.27 | 0.86 | 31.76 | 3.01 | 2.77 | 0.86 | 32.02 | 3.27 | 3.26 | 0.93 | 36.8  |
|    |   | 15 | 0.93 | 0.93 | 0.2  | 2.31 | 1.49 | 1.49 | 0.32 | 5.86  | 1.99 | 1.99 | 0.43 | 9.61  | 2.5  | 2.5  | 0.54 | 14.25 | 3    | 3    | 0.65 | 19.4  |
|    |   | 17 | 0.93 | 0.93 | 0.2  | 2.32 | 1.49 | 1.49 | 0.32 | 5.88  | 2    | 2    | 0.43 | 9.64  | 2.51 | 2.51 | 0.54 | 14.3  | 3    | 3    | 0.65 | 19.48 |
|    |   | 19 | -    | -    | -    | -    | 1.53 | 1.52 | 0.33 | 6.13  | 2.01 | 2    | 0.43 | 9.68  | 2.51 | 2.51 | 0.54 | 14.36 | 3.01 | 3.01 | 0.65 | 19.55 |
|    |   | 20 | -    | -    | -    | -    | 2.26 | 1.51 | 0.48 | 11.89 | 2.28 | 2.01 | 0.49 | 12.03 | 2.54 | 2.53 | 0.55 | 14.59 | 3.01 | 3.01 | 0.65 | 19.6  |
|    |   | 15 | 0.64 | 0.64 | 0.11 | 0.87 | 1.17 | 1.17 | 0.2  | 2.31  | 1.73 | 1.73 | 0.3  | 5.17  | 2.24 | 2.24 | 0.38 | 7.96  | 2.74 | 2.74 | 0.47 | 11.21 |
|    |   | 17 | 0.65 | 0.65 | 0.11 | 0.87 | 1.17 | 1.17 | 0.2  | 2.33  | 1.74 | 1.74 | 0.3  | 5.19  | 2.24 | 2.24 | 0.38 | 7.99  | 2.74 | 2.74 | 0.47 | 11.25 |
|    |   | 19 | -    | -    | -    | -    | 1.17 | 1.17 | 0.2  | 2.34  | 1.74 | 1.74 | 0.3  | 5.21  | 2.25 | 2.25 | 0.39 | 8.02  | 2.75 | 2.75 | 0.47 | 11.29 |
|    |   | 20 | -    | -    | -    | -    | 1.46 | 1.23 | 0.25 | 3.88  | 1.75 | 1.74 | 0.3  | 5.27  | 2.25 | 2.25 | 0.39 | 8.04  | 2.75 | 2.75 | 0.47 | 11.32 |
|    |   | 15 | 0.46 | 0.46 | 0.07 | 0.51 | 0.85 | 0.85 | 0.12 | 0.95  | 1.41 | 1.41 | 0.2  | 2.37  | 1.97 | 1.97 | 0.28 | 4.72  | 2.48 | 2.48 | 0.35 | 6.92  |
|    |   | 17 | 0.46 | 0.46 | 0.07 | 0.51 | 0.85 | 0.85 | 0.12 | 0.95  | 1.41 | 1.41 | 0.2  | 2.39  | 1.98 | 1.98 | 0.28 | 4.73  | 2.48 | 2.48 | 0.35 | 6.94  |
|    |   | 19 | -    | -    | -    | -    | 0.85 | 0.85 | 0.12 | 0.95  | 1.42 | 1.42 | 0.2  | 2.41  | 1.98 | 1.98 | 0.28 | 4.75  | 2.5  | 2.5  | 0.36 | 6.97  |
|    |   | 20 | -    | -    | -    | -    | 0.85 | 0.85 | 0.12 | 0.95  | 1.42 | 1.42 | 0.2  | 2.42  | 1.99 | 1.99 | 0.28 | 4.76  | 2.49 | 2.49 | 0.36 | 6.99  |
|    | 5 | 15 | 0.71 | 0.71 | 0.2  | 2.42 | 1.24 | 1.24 | 0.36 | 7.04  | 1.75 | 1.75 | 0.51 | 12.73 | 2.25 | 2.25 | 0.65 | 19.48 | 2.74 | 2.74 | 0.79 | 27.22 |
|    |   | 17 | 0.71 | 0.71 | 0.2  | 2.44 | 1.25 | 1.25 | 0.36 | 7.07  | 1.75 | 1.75 | 0.51 | 12.78 | 2.25 | 2.25 | 0.65 | 19.55 | 2.74 | 2.74 | 0.79 | 27.19 |
|    |   | 19 | -    | -    | -    | -    | 1.25 | 1.25 | 0.36 | 7.09  | 1.76 | 1.76 | 0.51 | 12.82 | 2.26 | 2.26 | 0.65 | 19.62 | 2.75 | 2.75 | 0.79 | 27.26 |
|    |   | 20 | -    | -    | -    | -    | 1.53 | 1.25 | 0.44 | 10.06 | 1.77 | 1.74 | 0.51 | 12.89 | 2.26 | 2.26 | 0.65 | 19.67 | 2.75 | 2.75 | 0.79 | 27.32 |
|    | 6 | 15 | 0.44 | 0.44 | 0.09 | 0.72 | 0.95 | 0.95 | 0.2  | 2.48  | 1.49 | 1.49 | 0.32 | 5.82  | 1.99 | 1.99 | 0.43 | 9.63  | 2.49 | 2.49 | 0.54 | 14.05 |
|    |   | 17 | 0.44 | 0.44 | 0.09 | 0.72 | 0.95 | 0.95 | 0.21 | 2.49  | 1.49 | 1.49 | 0.32 | 5.84  | 2    | 2    | 0.43 | 9.67  | 2.49 | 2.49 | 0.54 | 14.11 |
|    |   | 19 | -    | -    | -    | -    | 0.96 | 0.96 | 0.21 | 2.51  | 1.5  | 1.5  | 0.32 | 5.86  | 2    | 2    | 0.43 | 9.71  | 2.5  | 2.5  | 0.54 | 14.17 |
|    |   | 20 | -    | -    | -    | -    | 0.95 | 0.93 | 0.21 | 2.49  | 1.5  | 1.5  | 0.32 | 5.88  | 2.01 | 2.01 | 0.43 | 9.73  | 2.5  | 2.5  | 0.54 | 14.2  |
|    | 7 | 15 | 0.25 | 0.25 | 0.04 | 0.32 | 0.64 | 0.64 | 0.11 | 0.84  | 1.2  | 1.2  | 0.21 | 2.57  | 1.73 | 1.73 | 0.3  | 5.16  | 2.23 | 2.23 | 0.39 | 7.92  |
|    |   | 17 | 0.25 | 0.25 | 0.04 | 0.32 | 0.65 | 0.65 | 0.11 | 0.84  | 1.2  | 1.2  | 0.21 | 2.59  | 1.73 | 1.73 | 0.3  | 5.18  | 2.24 | 2.24 | 0.39 | 7.95  |
|    |   | 19 | -    | -    | -    | -    | 0.65 | 0.65 | 0.11 | 0.84  | 1.2  | 1.2  | 0.21 | 2.61  | 1.74 | 1.74 | 0.3  | 5.2   | 2.24 | 2.24 | 0.39 | 7.99  |
|    |   | 20 | -    | -    | -    | -    | 0.65 | 0.65 | 0.11 | 0.84  | 1.21 | 1.21 | 0.21 | 2.62  | 1.74 | 1.74 | 0.3  | 5.21  | 2.25 | 2.25 | 0.39 | 8     |
|    | 8 | 15 | -    | -    | -    | -    | 0.46 | 0.46 | 0.07 | 0.48  | 0.85 | 0.85 | 0.12 | 0.92  | 1.44 | 1.44 | 0.21 | 2.6   | 1.97 | 1.97 | 0.28 | 4.69  |
|    |   | 17 | -    | -    | -    | -    | 0.46 | 0.46 | 0.07 | 0.49  | 0.85 | 0.85 | 0.12 | 0.92  | 1.44 | 1.44 | 0.21 | 2.61  | 1.97 | 1.97 | 0.28 | 4.71  |
|    |   | 19 | -    | -    | -    | -    | 0.46 | 0.46 | 0.07 | 0.49  | 0.85 | 0.85 | 0.12 | 0.92  | 1.45 | 1.45 | 0.21 | 2.63  | 1.98 | 1.98 | 0.29 | 4.73  |
|    |   | 20 | -    | -    | -    | -    | 0.46 | 0.46 | 0.07 | 0.49  | 0.85 | 0.85 | 0.12 | 0.93  | 1.45 | 1.45 | 0.21 | 2.64  | 1.98 | 1.98 | 0.29 | 4.74  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
 WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

| MUC-19-W9 |      |                      |                           |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |
|-----------|------|----------------------|---------------------------|------|---------|-------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|-------|------|---------|--------|
| EWT       | ΔT   | Indoor<br>temp(W.B.) | Indoor temperature (D.B.) |      |         |       |       |      |         |        |       |      |         |        |       |      |         |        |       |      |         |        |
|           |      |                      | 21                        |      |         |       | 23    |      |         |        | 25    |      |         |        | 27    |      |         |        | 29    |      |         |        |
|           |      |                      | TC                        | SC   | WF      | WPD   | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    | TC    | SC   | WF      | WPD    |
| [°C]      | [°C] | [°C]                 | [kW]                      | [kW] | [m^3/h] | [kPa] | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  | [kW]  | [kW] | [m^3/h] | [kPa]  |
| 5         | 3    | 15                   | 5.91                      | 4.67 | 1.69    | 40.91 | 5.88  | 5.39 | 1.68    | 40.55  | 6.11  | 6.1  | 1.75    | 43.37  | 6.83  | 6.83 | 1.97    | 53.41  | 7.56  | 7.56 | 2.18    | 63.65  |
|           |      | 17                   | 7.99                      | 4.69 | 2.29    | 69.33 | 7.97  | 5.42 | 2.28    | 68.95  | 7.94  | 6.14 | 2.27    | 68.53  | 7.91  | 6.85 | 2.26    | 67.99  | 7.88  | 7.57 | 2.26    | 67.57  |
|           |      | 19                   | -                         | -    | -       | -     | 10.24 | 5.45 | 2.96    | 108.12 | 10.21 | 6.18 | 2.95    | 107.56 | 10.18 | 6.9  | 2.94    | 107.09 | 10.16 | 7.62 | 2.94    | 107.1  |
|           |      | 20                   | -                         | -    | -       | -     | 11.45 | 5.47 | 3.32    | 132.74 | 11.42 | 6.2  | 3.31    | 132.03 | 11.39 | 6.92 | 3.3     | 131.35 | 11.34 | 7.62 | 3.29    | 130.65 |
|           | 4    | 15                   | 5.05                      | 4.27 | 1.09    | 19.07 | 5.06  | 5    | 1.09    | 19.16  | 5.71  | 5.71 | 1.22    | 23.33  | 6.43  | 6.43 | 1.38    | 28.63  | 7.15  | 7.15 | 1.53    | 34.46  |
|           |      | 17                   | 7.14                      | 4.3  | 1.53    | 34.35 | 7.11  | 5.02 | 1.53    | 34.14  | 7.08  | 5.74 | 1.52    | 33.85  | 7.04  | 6.45 | 1.51    | 33.56  | 7.15  | 7.13 | 1.53    | 34.5   |
|           |      | 19                   | -                         | -    | -       | -     | 9.37  | 5.05 | 2.02    | 55.27  | 9.34  | 5.77 | 2.01    | 54.97  | 9.31  | 6.49 | 2       | 54.68  | 9.28  | 7.2  | 2       | 54.36  |
|           |      | 20                   | -                         | -    | -       | -     | 10.56 | 5.06 | 2.27    | 67.76  | 10.53 | 5.78 | 2.26    | 67.41  | 10.5  | 6.5  | 2.25    | 67.05  | 10.46 | 7.22 | 2.25    | 66.71  |
|           | 5    | 15                   | 4.12                      | 3.86 | 0.71    | 9.12  | 4.58  | 4.58 | 0.79    | 10.92  | 5.31  | 5.31 | 0.91    | 14.02  | 6.04  | 6.04 | 1.04    | 17.58  | 6.75  | 6.75 | 1.16    | 21.11  |
|           |      | 17                   | 6.26                      | 3.9  | 1.08    | 18.68 | 6.22  | 4.62 | 1.07    | 18.51  | 6.19  | 5.34 | 1.07    | 18.34  | 6.2   | 6.05 | 1.07    | 18.37  | 6.76  | 6.76 | 1.16    | 21.17  |
|           |      | 19                   | -                         | -    | -       | -     | 8.48  | 4.65 | 1.46    | 31.5   | 8.46  | 5.37 | 1.46    | 31.33  | 8.43  | 6.12 | 1.45    | 31.18  | 8.39  | 6.8  | 1.44    | 30.91  |
|           |      | 20                   | -                         | -    | -       | -     | 9.68  | 4.67 | 1.67    | 39.58  | 9.65  | 5.39 | 1.66    | 39.36  | 9.62  | 6.11 | 1.66    | 39.14  | 9.59  | 6.82 | 1.65    | 38.92  |
|           | 6    | 15                   | 3.42                      | 3.41 | 0.49    | 4.89  | 4.18  | 4.18 | 0.6     | 6.87   | 4.91  | 4.91 | 0.7     | 9.02   | 5.64  | 5.64 | 0.81    | 11.39  | 6.36  | 6.36 | 0.91    | 13.97  |
|           |      | 17                   | 5.31                      | 3.49 | 0.76    | 10.29 | 5.28  | 4.21 | 0.76    | 10.18  | 5.26  | 4.93 | 0.75    | 10.13  | 5.65  | 5.64 | 0.81    | 11.43  | 6.37  | 6.37 | 0.91    | 14.02  |
|           |      | 19                   | -                         | -    | -       | -     | 7.54  | 4.24 | 1.08    | 18.59  | 7.51  | 4.96 | 1.07    | 18.47  | 7.48  | 5.68 | 1.07    | 18.32  | 7.44  | 6.39 | 1.06    | 18.16  |
|           |      | 20                   | -                         | -    | -       | -     | 8.74  | 4.26 | 1.25    | 23.93  | 8.71  | 4.98 | 1.24    | 23.79  | 8.68  | 5.7  | 1.24    | 23.65  | 8.65  | 6.41 | 1.24    | 23.49  |
| 7         | 3    | 15                   | 4.28                      | 3.93 | 1.23    | 23.18 | 4.65  | 4.65 | 1.33    | 26.75  | 5.37  | 5.37 | 1.55    | 34.84  | 6.09  | 6.09 | 1.75    | 42.66  | 6.8   | 6.8  | 1.95    | 51.81  |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|---|---|----|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 9 |   | 17 | 6.36 | 3.95 | 1.83 | 46.11 | 6.33 | 4.67 | 1.82 | 45.73 | 6.3  | 5.39 | 1.81 | 45.29 | 6.29 | 6.1  | 1.8  | 45.15 | 6.82 | 6.82 | 1.96 | 52    |
|   |   | 19 | -    | -    | -    | -     | 8.58 | 4.69 | 2.47 | 77.74 | 8.57 | 5.4  | 2.47 | 77.97 | 8.53 | 6.13 | 2.45 | 76.88 | 8.49 | 6.85 | 2.44 | 76.34 |
|   |   | 20 | -    | -    | -    | -     | 9.8  | 4.72 | 2.84 | 99.56 | 9.77 | 5.44 | 2.84 | 99.07 | 9.74 | 6.16 | 2.83 | 98.55 | 9.71 | 6.88 | 2.82 | 98.02 |
|   |   | 15 | 3.52 | 3.48 | 0.76 | 10.21 | 4.26 | 4.26 | 0.92 | 14.12 | 4.97 | 4.97 | 1.07 | 18.23 | 5.69 | 5.69 | 1.22 | 22.98 | 6.41 | 6.41 | 1.38 | 28.18 |
|   | 4 | 17 | 5.45 | 3.55 | 1.17 | 21.32 | 5.42 | 4.27 | 1.16 | 21.1  | 5.39 | 4.99 | 1.16 | 20.95 | 5.7  | 5.69 | 1.22 | 23.04 | 6.42 | 6.42 | 1.38 | 28.28 |
|   |   | 19 | -    | -    | -    | -     | 7.67 | 4.3  | 1.65 | 38.45 | 7.64 | 5.02 | 1.64 | 38.21 | 7.61 | 5.74 | 1.64 | 37.93 | 7.57 | 6.45 | 1.63 | 37.59 |
|   |   | 20 | -    | -    | -    | -     | 8.88 | 4.32 | 1.92 | 50    | 8.85 | 5.04 | 1.91 | 49.72 | 8.82 | 5.76 | 1.91 | 49.44 | 8.79 | 6.47 | 1.9  | 49.13 |
|   |   | 15 | 3.12 | 3.12 | 0.54 | 5.65  | 3.86 | 3.86 | 0.67 | 8.12  | 4.58 | 4.58 | 0.79 | 10.81 | 5.3  | 5.3  | 0.91 | 13.79 | 6.02 | 6.02 | 1.03 | 17.13 |
|   | 5 | 17 | 4.49 | 3.16 | 0.77 | 10.45 | 4.47 | 3.87 | 0.77 | 10.36 | 4.59 | 4.58 | 0.79 | 10.86 | 5.31 | 5.31 | 0.91 | 13.83 | 6.03 | 6.03 | 1.04 | 17.19 |
|   |   | 19 | -    | -    | -    | -     | 6.73 | 3.9  | 1.16 | 20.76 | 6.7  | 4.62 | 1.15 | 20.59 | 6.35 | 4.98 | 1.09 | 32.8  | 6.64 | 6.05 | 1.14 | 20.26 |
|   |   | 20 | -    | -    | -    | -     | 7.94 | 3.93 | 1.37 | 27.8  | 7.92 | 4.65 | 1.37 | 27.63 | 7.88 | 5.36 | 1.36 | 27.44 | 7.85 | 6.07 | 1.35 | 27.21 |
|   |   | 15 | 2.56 | 2.56 | 0.37 | 2.67  | 3.44 | 3.44 | 0.49 | 4.86  | 4.18 | 4.18 | 0.6  | 6.75  | 4.91 | 4.91 | 0.7  | 8.86  | 5.63 | 5.63 | 0.81 | 11.17 |
|   | 6 | 17 | 3.44 | 2.73 | 0.49 | 4.85  | 3.48 | 3.46 | 0.5  | 4.95  | 4.19 | 4.19 | 0.6  | 6.77  | 4.92 | 4.92 | 0.71 | 8.89  | 5.64 | 5.64 | 0.81 | 11.21 |
|   |   | 19 | -    | -    | -    | -     | 5.75 | 3.51 | 0.83 | 11.6  | 5.72 | 4.23 | 0.82 | 11.48 | 5.69 | 4.94 | 0.82 | 11.39 | 5.75 | 5.66 | 0.83 | 11.6  |
|   |   | 20 | -    | -    | -    | -     | 6.96 | 3.53 | 1    | 16.03 | 6.92 | 4.25 | 0.99 | 15.91 | 6.89 | 4.96 | 0.99 | 15.76 | 6.85 | 5.67 | 0.98 | 15.62 |
|   |   | 15 | 3.19 | 3.19 | 0.91 | 13.76 | 3.91 | 3.91 | 1.12 | 19.51 | 4.63 | 4.63 | 1.33 | 26.08 | 5.35 | 5.35 | 1.53 | 33.41 | 6.07 | 6.07 | 1.75 | 42.16 |
|   | 3 | 17 | 4.63 | 3.21 | 1.32 | 25.99 | 4.6  | 3.93 | 1.31 | 25.71 | 4.67 | 4.66 | 1.35 | 26.77 | 5.36 | 5.36 | 1.53 | 33.52 | 6.08 | 6.08 | 1.75 | 42.31 |
|   |   | 19 | -    | -    | -    | -     | 6.86 | 3.96 | 1.98 | 52.1  | 6.83 | 4.67 | 1.97 | 51.69 | 6.79 | 5.39 | 1.96 | 51.21 | 6.76 | 6.1  | 1.95 | 50.8  |
|   |   | 20 | -    | -    | -    | -     | 8.02 | 3.96 | 2.3  | 67.75 | 7.99 | 4.68 | 2.29 | 67.33 | 7.96 | 5.4  | 2.28 | 66.89 | 7.93 | 6.11 | 2.28 | 66.43 |
|   |   | 15 | 2.82 | 2.82 | 0.6  | 6.74  | 3.53 | 3.53 | 0.76 | 10    | 4.25 | 4.25 | 0.91 | 13.63 | 4.97 | 4.97 | 1.07 | 18.01 | 5.68 | 5.68 | 1.22 | 22.54 |
|   | 4 | 17 | 3.66 | 2.82 | 0.79 | 10.63 | 3.68 | 3.54 | 0.79 | 10.72 | 4.25 | 4.25 | 0.91 | 13.68 | 4.98 | 4.98 | 1.07 | 18.08 | 5.69 | 5.69 | 1.22 | 22.62 |
|   |   | 19 | -    | -    | -    | -     | 5.89 | 3.57 | 1.27 | 24.13 | 5.86 | 4.28 | 1.26 | 23.89 | 5.83 | 5    | 1.26 | 23.67 | 5.85 | 5.71 | 1.26 | 23.85 |
|   |   | 20 | -    | -    | -    | -     | 7.06 | 3.57 | 1.52 | 32.68 | 7.03 | 4.29 | 1.51 | 32.45 | 7    | 5    | 1.5  | 32.17 | 6.96 | 5.72 | 1.49 | 31.86 |
|   |   | 15 | 2.36 | 2.36 | 0.4  | 3.4   | 3.13 | 3.13 | 0.54 | 5.53  | 3.85 | 3.85 | 0.66 | 7.88  | 4.57 | 4.57 | 0.79 | 10.54 | 5.29 | 5.29 | 0.91 | 13.5  |
|   | 5 | 17 | 2.57 | 2.38 | 0.44 | 4.01  | 3.13 | 3.13 | 0.54 | 5.55  | 3.86 | 3.86 | 0.66 | 7.91  | 4.59 | 4.59 | 0.79 | 10.57 | 5.3  | 5.3  | 0.91 | 13.54 |
|   |   | 19 | -    | -    | -    | -     | 4.87 | 3.17 | 0.84 | 11.72 | 4.84 | 3.88 | 0.83 | 11.6  | 4.85 | 4.6  | 0.83 | 11.65 | 5.31 | 5.3  | 0.91 | 13.59 |
|   |   | 20 | -    | -    | -    | -     | 6.07 | 3.18 | 1.04 | 17.07 | 6.03 | 3.9  | 1.04 | 16.9  | 6    | 4.61 | 1.03 | 16.73 | 5.98 | 5.32 | 1.03 | 16.62 |
|   |   | 15 | 1.58 | 1.58 | 0.23 | 1.03  | 2.67 | 2.67 | 0.38 | 3.01  | 3.45 | 3.45 | 0.5  | 4.81  | 4.18 | 4.18 | 0.6  | 6.65  | 4.91 | 4.91 | 0.7  | 8.7   |
|   | 6 | 17 | 1.58 | 1.58 | 0.23 | 1.03  | 2.67 | 2.67 | 0.38 | 3.03  | 3.46 | 3.46 | 0.5  | 4.83  | 4.19 | 4.19 | 0.6  | 6.67  | 4.91 | 4.91 | 0.71 | 8.73  |
|   |   | 19 | -    | -    | -    | -     | 3.79 | 2.76 | 0.54 | 5.63  | 3.79 | 3.48 | 0.54 | 5.63  | 4.2  | 4.17 | 0.6  | 6.68  | 4.93 | 4.93 | 0.71 | 8.76  |
|   |   | 20 | -    | -    | -    | -     | 5.03 | 2.79 | 0.72 | 9.07  | 4.99 | 3.51 | 0.72 | 8.96  | 4.97 | 4.22 | 0.71 | 8.89  | 5.05 | 4.95 | 0.72 | 9.14  |

Continued:

| MUC-19-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 2.47                      | 2.47 | 0.71   | 8.79  | 3.19 | 3.19 | 0.91   | 13.61 | 3.9  | 3.9  | 1.12   | 19.26 | 4.62 | 4.62 | 1.33   | 25.71 | 5.33 | 5.33 | 1.54   | 33.18 |
|           |      | 17                | 2.79                      | 2.47 | 0.8    | 10.84 | 3.19 | 3.17 | 0.92   | 13.64 | 3.91 | 3.91 | 1.12   | 19.33 | 4.63 | 4.63 | 1.33   | 25.8  | 5.34 | 5.34 | 1.54   | 33.29 |
|           |      | 19                | -                         | -    | -      | -     | 5    | 3.22 | 1.44   | 29.62 | 4.96 | 3.93 | 1.43   | 29.28 | 4.95 | 4.64 | 1.43   | 29.2  | 5.35 | 5.34 | 1.54   | 33.4  |
|           |      | 20                | -                         | -    | -      | -     | 6.17 | 3.22 | 1.78   | 42.54 | 6.15 | 3.94 | 1.78   | 42.57 | 6.12 | 4.66 | 1.77   | 42.39 | 6.09 | 5.37 | 1.76   | 42.02 |
|           | 4    | 15                | 2.06                      | 2.06 | 0.45   | 4.01  | 2.8  | 2.8  | 0.6    | 6.7   | 3.53 | 3.53 | 0.76   | 9.9   | 4.23 | 4.23 | 0.91   | 13.43 | 4.95 | 4.95 | 1.06   | 17.53 |
|           |      | 17                | 2.06                      | 2.03 | 0.45   | 4     | 2.81 | 2.81 | 0.61   | 6.72  | 3.53 | 3.53 | 0.76   | 9.93  | 4.24 | 4.24 | 0.91   | 13.47 | 4.96 | 4.96 | 1.07   | 17.59 |
|           |      | 19                | -                         | -    | -      | -     | 3.97 | 2.83 | 0.86   | 12.14 | 3.96 | 3.54 | 0.86   | 12.1  | 4.25 | 4.22 | 0.91   | 13.51 | 4.97 | 4.97 | 1.07   | 17.66 |
|           |      | 20                | -                         | -    | -      | -     | 5.14 | 2.84 | 1.11   | 18.75 | 5.11 | 3.55 | 1.1    | 18.53 | 5.08 | 4.26 | 1.09   | 18.37 | 5.12 | 4.98 | 1.1    | 18.63 |
|           | 5    | 15                | 1.34                      | 1.34 | 0.23   | 1.05  | 2.39 | 2.39 | 0.41   | 3.5   | 3.13 | 3.13 | 0.54   | 5.52  | 3.85 | 3.85 | 0.67   | 7.83  | 4.57 | 4.57 | 0.79   | 10.47 |
|           |      | 17                | 1.34                      | 1.34 | 0.23   | 1.05  | 2.4  | 2.4  | 0.41   | 3.52  | 3.14 | 3.14 | 0.54   | 5.54  | 3.86 | 3.86 | 0.67   | 7.86  | 4.58 | 4.58 | 0.79   | 10.5  |
|           |      | 19                | -                         | -    | -      | -     | 2.86 | 2.42 | 0.49   | 4.73  | 3.13 | 3.09 | 0.54   | 5.52  | 3.87 | 3.87 | 0.67   | 7.89  | 4.59 | 4.59 | 0.79   | 10.54 |
|           |      | 20                | -                         | -    | -      | -     | 4.07 | 2.45 | 0.7    | 8.6   | 4.05 | 3.16 | 0.7    | 8.51  | 4.08 | 3.88 | 0.71   | 8.64  | 4.59 | 4.58 | 0.79   | 10.55 |
|           | 6    | 15                | 1.09                      | 1.09 | 0.16   | 0.64  | 1.61 | 1.61 | 0.23   | 1.05  | 2.71 | 2.71 | 0.39   | 3.14  | 3.46 | 3.46 | 0.5    | 4.76  | 4.17 | 4.17 | 0.6    | 6.5   |
|           |      | 17                | 1.09                      | 1.09 | 0.16   | 0.65  | 1.62 | 1.62 | 0.23   | 1.05  | 2.72 | 2.72 | 0.39   | 3.15  | 3.46 | 3.46 | 0.5    | 4.78  | 4.18 | 4.18 | 0.6    | 6.53  |
|           |      | 19                | -                         | -    | -      | -     | 1.62 | 1.62 | 0.23   | 1.06  | 2.72 | 2.72 | 0.39   | 3.17  | 3.47 | 3.47 | 0.5    | 4.8   | 4.19 | 4.19 | 0.6    | 6.55  |
|           |      | 20                | -                         | -    | -      | -     | 2.86 | 2.02 | 0.41   | 3.45  | 2.88 | 2.74 | 0.41   | 3.5   | 3.47 | 3.45 | 0.5    | 4.8   | 4.2  | 4.2  | 0.6    | 6.57  |
| 13        | 3    | 15                | 1.74                      | 1.74 | 0.5    | 4.8   | 2.47 | 2.47 | 0.71   | 8.64  | 3.17 | 3.17 | 0.9    | 13.14 | 3.89 | 3.89 | 1.12   | 18.9  | 4.6  | 4.6  | 1.32   | 25.21 |

# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 1.74 | 1.74 | 0.5  | 4.81 | 2.47 | 2.47 | 0.71 | 8.67  | 3.18 | 3.18 | 0.91 | 13.19 | 3.9  | 3.9  | 1.12 | 18.96 | 4.61 | 4.61 | 1.33 | 25.3  |
|    |   | 19 | -    | -    | -    | -    | 3.02 | 2.48 | 0.87 | 12.18 | 3.18 | 3.14 | 0.91 | 13.17 | 3.91 | 3.91 | 1.12 | 19.03 | 4.62 | 4.62 | 1.33 | 25.4  |
|    |   | 20 | -    | -    | -    | -    | 4.19 | 2.49 | 1.2  | 21.44 | 4.16 | 3.2  | 1.2  | 21.18 | 4.17 | 3.92 | 1.2  | 21.25 | 4.63 | 4.61 | 1.33 | 25.43 |
|    |   | 15 | 1.09 | 1.09 | 0.23 | 1.06 | 2.07 | 2.07 | 0.45 | 3.93  | 2.79 | 2.79 | 0.6  | 6.46  | 3.51 | 3.51 | 0.75 | 9.52  | 4.22 | 4.22 | 0.9  | 13.05 |
|    |   | 17 | 1.09 | 1.09 | 0.23 | 1.06 | 2.07 | 2.07 | 0.45 | 3.95  | 2.8  | 2.8  | 0.6  | 6.48  | 3.52 | 3.52 | 0.75 | 9.56  | 4.23 | 4.23 | 0.91 | 13.1  |
|    |   | 19 | -    | -    | -    | -    | 2.05 | 1.99 | 0.44 | 3.87  | 2.8  | 2.8  | 0.6  | 6.5   | 3.52 | 3.52 | 0.75 | 9.59  | 4.24 | 4.24 | 0.91 | 13.15 |
|    |   | 20 | -    | -    | -    | -    | 3.07 | 2.1  | 0.66 | 7.57  | 3.08 | 2.81 | 0.66 | 7.62  | 3.52 | 3.5  | 0.75 | 9.59  | 4.24 | 4.24 | 0.91 | 13.17 |
|    |   | 15 | 0.82 | 0.82 | 0.14 | 0.56 | 1.36 | 1.36 | 0.23 | 1.05  | 2.39 | 2.39 | 0.41 | 3.41  | 3.13 | 3.13 | 0.54 | 5.34  | 3.84 | 3.84 | 0.66 | 7.57  |
|    |   | 17 | 0.82 | 0.82 | 0.14 | 0.56 | 1.37 | 1.37 | 0.23 | 1.05  | 2.4  | 2.4  | 0.41 | 3.42  | 3.13 | 3.13 | 0.54 | 5.36  | 3.85 | 3.85 | 0.66 | 7.6   |
|    |   | 19 | -    | -    | -    | -    | 1.37 | 1.37 | 0.24 | 1.06  | 2.4  | 2.4  | 0.41 | 3.44  | 3.14 | 3.14 | 0.54 | 5.38  | 3.86 | 3.86 | 0.66 | 7.63  |
|    |   | 20 | -    | -    | -    | -    | 1.84 | 1.35 | 0.23 | 1.05  | 2.4  | 2.38 | 0.41 | 3.44  | 3.14 | 3.14 | 0.54 | 5.39  | 3.86 | 3.86 | 0.66 | 7.64  |
|    |   | 15 | 0.6  | 0.6  | 0.09 | 0.33 | 1.08 | 1.08 | 0.16 | 0.61  | 1.66 | 1.66 | 0.24 | 1.08  | 2.72 | 2.72 | 0.39 | 3.1   | 3.45 | 3.45 | 0.49 | 4.63  |
|    |   | 17 | 0.6  | 0.6  | 0.09 | 0.34 | 1.08 | 1.08 | 0.16 | 0.61  | 1.67 | 1.67 | 0.24 | 1.08  | 2.73 | 2.73 | 0.39 | 3.11  | 3.46 | 3.46 | 0.5  | 4.65  |
|    |   | 19 | -    | -    | -    | -    | 1.09 | 1.09 | 0.16 | 0.61  | 1.67 | 1.67 | 0.24 | 1.09  | 2.73 | 2.73 | 0.39 | 3.12  | 3.47 | 3.47 | 0.5  | 4.67  |
|    |   | 20 | -    | -    | -    | -    | 1.09 | 1.09 | 0.16 | 0.61  | 1.68 | 1.68 | 0.24 | 1.09  | 2.74 | 2.74 | 0.39 | 3.13  | 3.48 | 3.48 | 0.5  | 4.68  |
|    | 6 | 15 | 0.84 | 0.84 | 0.24 | 1.09 | 1.74 | 1.74 | 0.5  | 4.71  | 2.46 | 2.46 | 0.71 | 8.47  | 3.18 | 3.18 | 0.92 | 13.29 | 3.88 | 3.88 | 1.12 | 18.75 |
|    |   | 17 | 0.84 | 0.84 | 0.24 | 1.1  | 1.74 | 1.74 | 0.5  | 4.73  | 2.46 | 2.46 | 0.71 | 8.5   | 3.18 | 3.18 | 0.92 | 13.34 | 3.89 | 3.89 | 1.13 | 18.82 |
|    |   | 19 | -    | -    | -    | -    | 1.74 | 1.74 | 0.5  | 4.74  | 2.47 | 2.47 | 0.71 | 8.53  | 3.19 | 3.19 | 0.92 | 13.39 | 3.9  | 3.9  | 1.13 | 18.89 |
|    |   | 20 | -    | -    | -    | -    | 2.07 | 1.75 | 0.59 | 6.33  | 2.46 | 2.42 | 0.71 | 8.5   | 3.19 | 3.19 | 0.92 | 13.41 | 3.9  | 3.9  | 1.13 | 18.93 |
|    | 4 | 15 | 0.56 | 0.56 | 0.12 | 0.47 | 1.14 | 1.14 | 0.24 | 1.14  | 2.07 | 2.07 | 0.45 | 3.88  | 2.79 | 2.79 | 0.6  | 6.42  | 3.51 | 3.51 | 0.76 | 9.56  |
|    |   | 17 | 0.56 | 0.56 | 0.12 | 0.47 | 1.14 | 1.14 | 0.25 | 1.14  | 2.07 | 2.07 | 0.45 | 3.89  | 2.8  | 2.8  | 0.6  | 6.44  | 3.52 | 3.52 | 0.76 | 9.6   |
|    |   | 19 | -    | -    | -    | -    | 1.15 | 1.15 | 0.25 | 1.15  | 2.09 | 2.09 | 0.45 | 3.9   | 2.8  | 2.8  | 0.6  | 6.47  | 3.53 | 3.53 | 0.76 | 9.63  |
|    |   | 20 | -    | -    | -    | -    | 1.15 | 1.15 | 0.25 | 1.16  | 2.1  | 2.1  | 0.45 | 3.91  | 2.81 | 2.81 | 0.6  | 6.48  | 3.53 | 3.53 | 0.76 | 9.65  |
|    | 5 | 15 | 0.33 | 0.33 | 0.06 | 0.22 | 0.83 | 0.83 | 0.14 | 0.54  | 1.46 | 1.46 | 0.25 | 1.22  | 2.41 | 2.41 | 0.42 | 3.43  | 3.13 | 3.13 | 0.54 | 5.34  |
|    |   | 17 | 0.34 | 0.34 | 0.06 | 0.22 | 0.83 | 0.83 | 0.14 | 0.54  | 1.47 | 1.47 | 0.25 | 1.22  | 2.41 | 2.41 | 0.42 | 3.45  | 3.13 | 3.13 | 0.54 | 5.36  |
|    |   | 19 | -    | -    | -    | -    | 0.83 | 0.83 | 0.14 | 0.54  | 1.47 | 1.47 | 0.26 | 1.23  | 2.42 | 2.42 | 0.42 | 3.46  | 3.14 | 3.14 | 0.54 | 5.38  |
|    |   | 20 | -    | -    | -    | -    | 0.83 | 0.83 | 0.14 | 0.54  | 1.48 | 1.48 | 0.26 | 1.24  | 2.42 | 2.42 | 0.42 | 3.47  | 3.14 | 3.14 | 0.54 | 5.39  |
|    | 6 | 15 | -    | -    | -    | -    | 0.6  | 0.6  | 0.09 | 0.32  | 1.08 | 1.08 | 0.16 | 0.58  | 1.78 | 1.78 | 0.26 | 1.26  | 2.73 | 2.73 | 0.39 | 3.11  |
|    |   | 17 | -    | -    | -    | -    | 0.6  | 0.6  | 0.09 | 0.32  | 1.08 | 1.08 | 0.16 | 0.58  | 1.79 | 1.79 | 0.26 | 1.27  | 2.74 | 2.74 | 0.39 | 3.13  |
|    |   | 19 | -    | -    | -    | -    | 0.6  | 0.6  | 0.09 | 0.32  | 1.08 | 1.08 | 0.16 | 0.58  | 1.8  | 1.8  | 0.26 | 1.28  | 2.74 | 2.74 | 0.4  | 3.14  |
|    |   | 20 | -    | -    | -    | -    | 0.6  | 0.6  | 0.09 | 0.32  | 1.09 | 1.09 | 0.16 | 0.58  | 1.8  | 1.8  | 0.26 | 1.28  | 2.75 | 2.75 | 0.4  | 3.14  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    ΔT: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

## MUC-24-W9

| EWT  | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |       |      |        |        |       |      |        |        |       |      |        |        |       |      |        |        |
|------|------|-------------------|---------------------------|------|--------|-------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|-------|------|--------|--------|
|      |      |                   | 21                        |      |        |       | 23    |      |        |        | 25    |      |        |        | 27    |      |        |        | 29    |      |        |        |
|      |      |                   | TC                        | SC   | WF     | WPD   | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    | TC    | SC   | WF     | WPD    |
| [°C] | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  | [kW]  | [kW] | [m³/h] | [kPa]  |
| 5    | 3    | 15                | 7.12                      | 5.57 | 2.05   | 85.93 | 7.1   | 6.42 | 2.05   | 85.88  | 7.28  | 7.28 | 2.1    | 89.73  | 8.1   | 8.1  | 2.34   | 107.62 | 8.95  | 8.95 | 2.59   | 128.99 |
|      |      | 17                | 9.57                      | 5.6  | 2.76   | 144.2 | 9.55  | 6.46 | 2.76   | 144.2  | 9.52  | 7.3  | 2.76   | 144.21 | 9.47  | 8.13 | 2.74   | 141.93 | 9.47  | 8.97 | 2.75   | 143.08 |
|      |      | 19                | -                         | -    | -      | -     | 12.2  | 6.49 | 3.52   | 219.37 | 12.17 | 7.34 | 3.51   | 218.23 | 12.12 | 8.17 | 3.49   | 217.07 | 12.09 | 9    | 3.48   | 215.69 |
|      |      | 20                | -                         | -    | -      | -     | 13.62 | 6.51 | 3.92   | 265.89 | 13.58 | 7.36 | 3.91   | 264.53 | 13.54 | 8.21 | 3.9    | 263.21 | 13.5  | 9.05 | 3.89   | 261.81 |
|      | 4    | 15                | 6.16                      | 5.12 | 1.32   | 40    | 6.21  | 5.98 | 1.33   | 40.54  | 6.81  | 6.81 | 1.46   | 47.45  | 7.65  | 7.65 | 1.65   | 58.39  | 8.49  | 8.49 | 1.82   | 69.58  |
|      |      | 17                | 8.61                      | 5.16 | 1.85   | 71.33 | 8.57  | 6    | 1.84   | 70.76  | 8.54  | 6.84 | 1.83   | 70.29  | 8.52  | 7.67 | 1.83   | 70.01  | 8.66  | 8.54 | 1.87   | 72.69  |
|      |      | 19                | -                         | -    | -      | -     | 11.24 | 6.04 | 2.43   | 114.17 | 11.22 | 6.89 | 2.43   | 114.22 | 11.18 | 7.74 | 2.42   | 113.88 | 11.12 | 8.56 | 2.39   | 111.46 |
|      |      | 20                | -                         | -    | -      | -     | 12.68 | 6.08 | 2.75   | 142.23 | 12.63 | 6.92 | 2.73   | 140.62 | 12.58 | 7.76 | 2.72   | 139    | 12.54 | 8.6  | 2.71   | 138.2  |
|      | 5    | 15                | 5.22                      | 4.68 | 0.9    | 20.56 | 5.55  | 5.53 | 0.95   | 22.61  | 6.38  | 6.38 | 1.1    | 28.9   | 7.21  | 7.21 | 1.24   | 35.77  | 8.04  | 8.04 | 1.38   | 42.8   |
|      |      | 17                | 7.64                      | 4.72 | 1.32   | 39.42 | 7.61  | 5.56 | 1.31   | 39.12  | 7.58  | 6.4  | 1.31   | 38.93  | 7.63  | 7.24 | 1.31   | 39.38  | 8.07  | 8.06 | 1.38   | 42.99  |
|      |      | 19                | -                         | -    | -      | -     | 10.26 | 5.6  | 1.77   | 65.43  | 10.22 | 6.44 | 1.76   | 64.99  | 10.18 | 7.28 | 1.75   | 64.55  | 10.13 | 8.11 | 1.74   | 63.75  |
|      |      | 20                | -                         | -    | -      | -     | 11.66 | 5.62 | 2      | 81.44  | 11.62 | 6.46 | 2      | 81.01  | 11.59 | 7.31 | 2      | 80.91  | 11.55 | 8.14 | 1.99   | 80.36  |
|      | 6    | 15                | 4.37                      | 4.26 | 0.63   | 11.08 | 5.08  | 5.08 | 0.73   | 14.31  | 5.92  | 5.92 | 0.85   | 18.42  | 6.77  | 6.77 | 0.97   | 23.13  | 7.61  | 7.61 | 1.09   | 28.24  |
|      |      | 17                | 6.6                       | 4.26 | 0.94   | 22.15 | 6.58  | 5.1  | 0.94   | 22.01  | 6.6   | 5.95 | 0.94   | 22.13  | 6.9   | 6.8  | 0.99   | 23.88  | 7.62  | 7.62 | 1.09   | 28.35  |
|      |      | 19                | -                         | -    | -      | -     | 9.22  | 5.15 | 1.32   | 39.29  | 9.18  | 5.98 | 1.31   | 39     | 9.14  | 6.82 | 1.31   | 38.72  | 9.12  | 7.65 | 1.3    | 38.55  |
|      |      | 20                | -                         | -    | -      | -     | 10.65 | 5.18 | 1.53   | 50.7   | 10.61 | 6.02 | 1.52   | 50.37  | 10.57 | 6.86 | 1.52   | 50.03  | 10.53 | 7.69 | 1.51   | 49.68  |
| 7    | 3    | 15                | 5.23                      | 4.69 | 1.52   | 50.06 | 5.53  | 5.52 | 1.6    | 54.7   | 6.38  | 6.38 | 1.85   | 70.46  | 7.22  | 7.22 | 2.09   | 87.09  | 8.05  | 8.05 | 2.32   | 104.77 |

# Universal Fancoil DC

# MUC-W9 series

|   |   |    |      |      |      |       |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |
|---|---|----|------|------|------|-------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|
| 9 |   | 17 | 7.66 | 4.72 | 2.22 | 97.16 | 7.62  | 5.56 | 2.21 | 96.32  | 7.59  | 6.4  | 2.2  | 95.71  | 7.58  | 7.23 | 2.19 | 94.29  | 8.07  | 8.06 | 2.33 | 105.16 |
|   |   | 19 | -    | -    | -    | -     | 10.27 | 5.6  | 2.99 | 163.08 | 10.23 | 6.44 | 2.98 | 162.11 | 10.19 | 7.28 | 2.97 | 161    | 10.15 | 8.12 | 2.96 | 159.95 |
|   |   | 20 | -    | -    | -    | -     | 11.67 | 5.62 | 3.4  | 203.96 | 11.63 | 6.47 | 3.39 | 202.79 | 11.59 | 7.31 | 3.38 | 201.6  | 11.55 | 8.14 | 3.37 | 200.3  |
|   |   | 15 | 4.36 | 4.27 | 0.94 | 21.82 | 5.1   | 5.1  | 1.1  | 28.77  | 5.93  | 5.93 | 1.28 | 36.96  | 6.78  | 6.78 | 1.47 | 46.98  | 7.61  | 7.61 | 1.64 | 56.98  |
|   | 4 | 17 | 6.64 | 4.28 | 1.44 | 45.32 | 6.61  | 5.12 | 1.43 | 45     | 6.61  | 5.96 | 1.43 | 45     | 6.86  | 6.81 | 1.48 | 48.01  | 7.62  | 7.62 | 1.64 | 57.22  |
|   |   | 19 | -    | -    | -    | -     | 9.25  | 5.16 | 2    | 80.27  | 9.2   | 6    | 1.99 | 79.64  | 9.17  | 6.83 | 1.98 | 79.05  | 9.13  | 7.66 | 1.97 | 78.58  |
|   |   | 20 | -    | -    | -    | -     | 10.64 | 5.17 | 2.3  | 102.11 | 10.6  | 6.01 | 2.29 | 101.42 | 10.55 | 6.85 | 2.28 | 100.68 | 10.51 | 7.68 | 2.27 | 99.95  |
|   |   | 15 | 3.81 | 3.8  | 0.65 | 11.75 | 4.65  | 4.65 | 0.8  | 16.55  | 5.5   | 5.5  | 0.94 | 21.97  | 6.34  | 6.34 | 1.09 | 28.3   | 7.17  | 7.17 | 1.23 | 34.68  |
|   | 5 | 17 | 5.58 | 3.83 | 0.96 | 22.55 | 5.57  | 4.67 | 0.96 | 22.5   | 5.73  | 5.53 | 0.98 | 23.6   | 6.36  | 6.35 | 1.1  | 28.4   | 7.19  | 7.19 | 1.24 | 34.81  |
|   |   | 19 | -    | -    | -    | -     | 8.2   | 4.72 | 1.42 | 44.06  | 8.17  | 5.55 | 1.41 | 43.72  | 8.25  | 6.12 | 1.43 | 71.4   | 8.13  | 7.22 | 1.41 | 43.4   |
|   |   | 20 | -    | -    | -    | -     | 9.58  | 4.73 | 1.65 | 57.18  | 9.54  | 5.57 | 1.64 | 56.77  | 9.52  | 6.41 | 1.65 | 57.02  | 9.48  | 7.24 | 1.64 | 56.64  |
|   |   | 15 | 3.36 | 3.36 | 0.48 | 7     | 4.22  | 4.22 | 0.6  | 10.25  | 5.06  | 5.06 | 0.72 | 13.91  | 5.91  | 5.91 | 0.85 | 18.21  | 6.74  | 6.74 | 0.97 | 22.72  |
|   | 6 | 17 | 4.51 | 3.39 | 0.65 | 11.49 | 4.59  | 4.25 | 0.66 | 11.84  | 5.09  | 5.08 | 0.73 | 14.04  | 5.92  | 5.92 | 0.85 | 18.28  | 6.76  | 6.76 | 0.97 | 22.91  |
|   |   | 19 | -    | -    | -    | -     | 7.11  | 4.27 | 1.02 | 24.99  | 7.09  | 5.11 | 1.02 | 24.83  | 7.08  | 5.94 | 1.02 | 24.8   | 7.2   | 6.8  | 1.04 | 25.56  |
|   |   | 20 | -    | -    | -    | -     | 8.5   | 4.29 | 1.22 | 33.7   | 8.46  | 5.12 | 1.21 | 33.43  | 8.42  | 5.96 | 1.21 | 33.2   | 8.4   | 6.79 | 1.2  | 33.04  |
|   |   | 15 | 3.82 | 3.81 | 1.1  | 28.41 | 4.66  | 4.66 | 1.33 | 39.45  | 5.5   | 5.5  | 1.59 | 53.32  | 6.33  | 6.33 | 1.82 | 67.27  | 7.16  | 7.16 | 2.06 | 83.65  |
| 9 | 3 | 17 | 5.6  | 3.84 | 1.62 | 55.05 | 5.59  | 4.68 | 1.61 | 54.77  | 5.67  | 5.54 | 1.64 | 56.29  | 6.34  | 6.34 | 1.82 | 67.56  | 7.18  | 7.18 | 2.06 | 84.03  |
|   |   | 19 | -    | -    | -    | -     | 8.18  | 4.7  | 2.36 | 105.72 | 8.14  | 5.54 | 2.34 | 104.82 | 8.12  | 6.38 | 2.34 | 104.76 | 8.1   | 7.21 | 2.34 | 104.73 |
|   |   | 20 | -    | -    | -    | -     | 9.59  | 4.73 | 2.77 | 140.33 | 9.55  | 5.57 | 2.76 | 139.27 | 9.51  | 6.4  | 2.75 | 138.24 | 9.47  | 7.24 | 2.73 | 137.19 |
|   |   | 15 | 3.38 | 3.38 | 0.72 | 13.86 | 4.23  | 4.23 | 0.91 | 20.49  | 5.07  | 5.07 | 1.09 | 27.92  | 5.9   | 5.9  | 1.27 | 35.93  | 6.74  | 6.74 | 1.46 | 45.67  |
|   | 4 | 17 | 4.54 | 3.4  | 0.98 | 23.15 | 4.6   | 4.25 | 0.99 | 23.61  | 5.08  | 5.07 | 1.09 | 27.86  | 5.91  | 5.91 | 1.27 | 36.07  | 6.76  | 6.76 | 1.46 | 45.85  |
|   |   | 19 | -    | -    | -    | -     | 7.1   | 4.27 | 1.53 | 49.53  | 7.07  | 5.1  | 1.52 | 49.16  | 7.05  | 5.93 | 1.51 | 48.91  | 7.13  | 6.79 | 1.53 | 49.8   |
|   |   | 20 | -    | -    | -    | -     | 8.5   | 4.29 | 1.83 | 67.72  | 8.46  | 5.12 | 1.82 | 67.15  | 8.42  | 5.96 | 1.81 | 66.63  | 8.39  | 6.79 | 1.81 | 66.24  |
|   |   | 15 | 2.94 | 2.94 | 0.5  | 7.49  | 3.79  | 3.79 | 0.65 | 11.48  | 4.63  | 4.63 | 0.8  | 16.12  | 5.47  | 5.47 | 0.94 | 21.4   | 6.3   | 6.3  | 1.08 | 27.35  |
|   | 5 | 17 | 3.45 | 2.96 | 0.59 | 9.79  | 3.85  | 3.82 | 0.66 | 11.78  | 4.63  | 4.63 | 0.8  | 16.18  | 5.48  | 5.48 | 0.94 | 21.48  | 6.32  | 6.32 | 1.09 | 27.47  |
|   |   | 19 | -    | -    | -    | -     | 6     | 3.83 | 1.03 | 25.06  | 5.98  | 4.66 | 1.03 | 24.95  | 6.04  | 5.51 | 1.04 | 25.35  | 6.43  | 6.35 | 1.11 | 28.31  |
|   |   | 20 | -    | -    | -    | -     | 7.39  | 3.85 | 1.27 | 36.03  | 7.36  | 4.69 | 1.27 | 35.74  | 7.33  | 5.52 | 1.26 | 35.52  | 7.34  | 6.35 | 1.26 | 35.54  |
|   |   | 15 | 2.45 | 2.45 | 0.35 | 3.71  | 3.35  | 3.35 | 0.48 | 6.86   | 4.2   | 4.2  | 0.6  | 10.03  | 5.04  | 5.04 | 0.72 | 13.54  | 5.87  | 5.87 | 0.84 | 17.59  |
|   | 6 | 17 | 2.43 | 2.35 | 0.35 | 3.65  | 3.36  | 3.36 | 0.48 | 6.88   | 4.21  | 4.21 | 0.6  | 10.07  | 5.05  | 5.05 | 0.72 | 13.6   | 5.88  | 5.88 | 0.84 | 17.66  |
|   |   | 19 | -    | -    | -    | -     | 4.86  | 3.39 | 0.7  | 12.82  | 4.89  | 4.23 | 0.7  | 12.88  | 5.24  | 5.08 | 0.75 | 14.49  | 5.9   | 5.89 | 0.84 | 17.73  |
|   |   | 20 | -    | -    | -    | -     | 6.23  | 3.41 | 0.89 | 19.46  | 6.21  | 4.24 | 0.89 | 19.33  | 6.21  | 5.07 | 0.89 | 19.35  | 6.36  | 5.93 | 0.91 | 20.17  |

Continued:

| MUC-24-W9 |      |                   |                           |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|-----------|------|-------------------|---------------------------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|------|------|--------|-------|
| EWT       | ΔT   | Indoor temp(W.B.) | Indoor temperature (D.B.) |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |      |      |        |       |
|           |      |                   | 21                        |      |        |       | 23   |      |        |       | 25   |      |        |       | 27   |      |        |       | 29   |      |        |       |
|           |      |                   | TC                        | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   | TC   | SC   | WF     | WPD   |
| [°C]      | [°C] | [°C]              | [kW]                      | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] | [kW] | [kW] | [m³/h] | [kPa] |
| 11        | 3    | 15                | 2.96                      | 2.96 | 0.85   | 17.93 | 3.8  | 3.8  | 1.09   | 27.67 | 4.64 | 4.64 | 1.34   | 39.34 | 5.47 | 5.47 | 1.59   | 52.43 | 6.3  | 6.3  | 1.83   | 67.15 |
|           |      | 17                | 3.46                      | 2.96 | 0.99   | 23.51 | 3.82 | 3.81 | 1.1    | 28.03 | 4.65 | 4.65 | 1.35   | 39.5  | 5.48 | 5.48 | 1.59   | 52.64 | 6.32 | 6.32 | 1.83   | 67.41 |
|           |      | 19                | -                         | -    | -      | -     | 5.99 | 3.83 | 1.73   | 60.71 | 5.97 | 4.66 | 1.72   | 60.31 | 5.99 | 5.5  | 1.72   | 60.59 | 6.35 | 6.35 | 1.84   | 68.12 |
|           |      | 20                | -                         | -    | -      | -     | 7.39 | 3.84 | 2.15   | 88.8  | 7.38 | 4.69 | 2.14   | 88.37 | 7.34 | 5.52 | 2.13   | 87.71 | 7.32 | 6.35 | 2.13   | 87.39 |
|           | 4    | 15                | 2.54                      | 2.54 | 0.55   | 8.42  | 3.36 | 3.36 | 0.72   | 13.6  | 4.2  | 4.2  | 0.9    | 19.87 | 5.04 | 5.04 | 1.08   | 27.12 | 5.87 | 5.87 | 1.27   | 35.68 |
|           |      | 17                | 2.58                      | 2.57 | 0.56   | 8.74  | 3.37 | 3.37 | 0.73   | 13.65 | 4.21 | 4.21 | 0.91   | 19.95 | 5.05 | 5.05 | 1.09   | 27.23 | 5.89 | 5.89 | 1.28   | 35.82 |
|           |      | 19                | -                         | -    | -      | -     | 4.87 | 3.39 | 1.05   | 25.55 | 4.88 | 4.23 | 1.05   | 25.7  | 5.19 | 5.1  | 1.12   | 28.56 | 5.9  | 5.9  | 1.28   | 35.97 |
|           |      | 20                | -                         | -    | -      | -     | 6.23 | 3.41 | 1.34   | 39.11 | 6.2  | 4.24 | 1.34   | 38.82 | 6.19 | 5.07 | 1.33   | 38.72 | 6.28 | 5.93 | 1.35   | 39.69 |
|           | 5    | 15                | 2.06                      | 2.06 | 0.36   | 3.89  | 2.93 | 2.93 | 0.51   | 7.41  | 3.77 | 3.77 | 0.65   | 11.34 | 4.61 | 4.61 | 0.8    | 15.95 | 5.44 | 5.44 | 0.94   | 21.16 |
|           |      | 17                | 2.07                      | 2.07 | 0.36   | 3.91  | 2.93 | 2.93 | 0.51   | 7.44  | 3.78 | 3.78 | 0.65   | 11.39 | 4.63 | 4.63 | 0.8    | 16.01 | 5.46 | 5.46 | 0.94   | 21.24 |
|           |      | 19                | -                         | -    | -      | -     | 3.72 | 2.95 | 0.64   | 11.02 | 3.97 | 3.82 | 0.68   | 12.24 | 4.64 | 4.63 | 0.8    | 16.07 | 5.47 | 5.47 | 0.95   | 21.33 |
|           |      | 20                | -                         | -    | -      | -     | 5.06 | 2.97 | 0.88   | 18.67 | 5.05 | 3.81 | 0.87   | 18.63 | 5.14 | 4.66 | 0.89   | 19.18 | 5.57 | 5.49 | 0.96   | 22.01 |
|           | 6    | 15                | 1.47                      | 1.47 | 0.21   | 1.36  | 2.47 | 2.47 | 0.36   | 3.9   | 3.34 | 3.34 | 0.48   | 6.68  | 4.18 | 4.18 | 0.6    | 9.75  | 5.01 | 5.01 | 0.72   | 13.28 |
|           |      | 17                | 1.48                      | 1.48 | 0.21   | 1.36  | 2.48 | 2.48 | 0.36   | 3.93  | 3.34 | 3.34 | 0.48   | 6.7   | 4.19 | 4.19 | 0.6    | 9.79  | 5.02 | 5.02 | 0.72   | 13.33 |
|           |      | 19                | -                         | -    | -      | -     | 2.54 | 2.53 | 0.37   | 4.14  | 3.35 | 3.34 | 0.48   | 6.73  | 4.2  | 4.2  | 0.6    | 9.83  | 5.04 | 5.04 | 0.72   | 13.39 |
|           |      | 20                | -                         | -    | -      | -     | 3.82 | 2.53 | 0.55   | 8.36  | 3.88 | 3.38 | 0.56   | 8.62  | 4.33 | 4.23 | 0.62   | 10.37 | 5.04 | 5.03 | 0.72   | 13.41 |
| 13        | 3    | 15                | 2.09                      | 2.09 | 0.6    | 9.9   | 2.94 | 2.94 | 0.85   | 17.53 | 3.77 | 3.77 | 1.08   | 26.47 | 4.6  | 4.6  | 1.31   | 37.38 | 5.43 | 5.43 | 1.55   | 49.79 |



# Universal Fancoil DC

# MUC-W9 series

|    |   |    |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |
|----|---|----|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|
| 15 | 4 | 17 | 2.09 | 2.09 | 0.61 | 9.94 | 2.95 | 2.95 | 0.85 | 17.6  | 3.78 | 3.78 | 1.08 | 26.55 | 4.61 | 4.61 | 1.32 | 37.53 | 5.44 | 5.44 | 1.56 | 49.99 |
|    |   | 19 | -    | -    | -    | -    | 3.72 | 2.96 | 1.07 | 26.17 | 3.89 | 3.83 | 1.11 | 27.99 | 4.62 | 4.62 | 1.32 | 37.69 | 5.46 | 5.46 | 1.56 | 50.2  |
|    |   | 20 | -    | -    | -    | -    | 5.07 | 2.98 | 1.46 | 44.81 | 5.06 | 3.81 | 1.46 | 44.55 | 5.09 | 4.65 | 1.47 | 45.05 | 5.48 | 5.48 | 1.57 | 50.63 |
|    |   | 15 | 1.66 | 1.66 | 0.36 | 3.93 | 2.51 | 2.51 | 0.54 | 8.09  | 3.35 | 3.35 | 0.72 | 13.18 | 4.18 | 4.18 | 0.9  | 19.45 | 5.01 | 5.01 | 1.08 | 26.38 |
|    |   | 17 | 1.66 | 1.66 | 0.36 | 3.96 | 2.52 | 2.52 | 0.54 | 8.12  | 3.35 | 3.35 | 0.72 | 13.23 | 4.19 | 4.19 | 0.9  | 19.53 | 5.02 | 5.02 | 1.08 | 26.44 |
|    |   | 19 | -    | -    | -    | -    | 2.66 | 2.57 | 0.57 | 8.9   | 3.37 | 3.35 | 0.72 | 13.28 | 4.2  | 4.2  | 0.91 | 19.61 | 5.03 | 5.03 | 1.08 | 26.55 |
|    |   | 20 | -    | -    | -    | -    | 3.86 | 2.54 | 0.83 | 16.93 | 3.9  | 3.39 | 0.84 | 17.25 | 4.3  | 4.24 | 0.93 | 20.36 | 5.04 | 5.04 | 1.08 | 26.61 |
|    |   | 15 | 1.11 | 1.11 | 0.19 | 1.14 | 2.07 | 2.07 | 0.35 | 3.89  | 2.92 | 2.92 | 0.5  | 7.14  | 3.77 | 3.77 | 0.64 | 10.92 | 4.59 | 4.59 | 0.79 | 15.47 |
|    |   | 17 | 1.11 | 1.11 | 0.19 | 1.15 | 2.07 | 2.07 | 0.36 | 3.92  | 2.91 | 2.91 | 0.5  | 7.16  | 3.76 | 3.76 | 0.65 | 10.96 | 4.6  | 4.6  | 0.79 | 15.54 |
|    |   | 19 | -    | -    | -    | -    | 2.08 | 2.07 | 0.36 | 3.94  | 2.93 | 2.93 | 0.5  | 7.2   | 3.77 | 3.77 | 0.65 | 11.01 | 4.61 | 4.61 | 0.79 | 15.6  |
|    |   | 20 | -    | -    | -    | -    | 2.6  | 2.1  | 0.45 | 5.85  | 3.03 | 2.98 | 0.52 | 7.6   | 3.78 | 3.77 | 0.65 | 11.03 | 4.62 | 4.62 | 0.8  | 15.63 |
|    |   | 15 | 0.79 | 0.79 | 0.11 | 0.65 | 1.48 | 1.48 | 0.21 | 1.32  | 2.48 | 2.48 | 0.35 | 3.9   | 3.33 | 3.33 | 0.48 | 6.51  | 4.17 | 4.17 | 0.6  | 9.57  |
|    |   | 17 | 0.79 | 0.79 | 0.11 | 0.65 | 1.48 | 1.48 | 0.21 | 1.32  | 2.48 | 2.48 | 0.36 | 3.92  | 3.34 | 3.34 | 0.48 | 6.53  | 4.18 | 4.18 | 0.6  | 9.61  |
|    |   | 19 | -    | -    | -    | -    | 1.48 | 1.48 | 0.21 | 1.33  | 2.49 | 2.49 | 0.36 | 3.94  | 3.34 | 3.34 | 0.48 | 6.56  | 4.19 | 4.19 | 0.6  | 9.65  |
|    |   | 20 | -    | -    | -    | -    | 1.48 | 1.48 | 0.21 | 1.33  | 2.49 | 2.49 | 0.36 | 3.96  | 3.35 | 3.35 | 0.48 | 6.58  | 4.19 | 4.19 | 0.6  | 9.68  |
|    | 6 | 15 | 1.24 | 1.24 | 0.36 | 3.98 | 2.09 | 2.09 | 0.6  | 9.66  | 2.93 | 2.93 | 0.85 | 17.35 | 3.75 | 3.75 | 1.08 | 26.19 | 4.58 | 4.58 | 1.32 | 37.02 |
|    |   | 17 | 1.25 | 1.25 | 0.36 | 4.01 | 2.1  | 2.1  | 0.6  | 9.7   | 2.94 | 2.94 | 0.85 | 17.42 | 3.76 | 3.76 | 1.09 | 26.57 | 4.59 | 4.59 | 1.32 | 37.16 |
|    |   | 19 | -    | -    | -    | -    | 2.1  | 2.09 | 0.6  | 9.74  | 2.94 | 2.94 | 0.85 | 17.49 | 3.77 | 3.77 | 1.09 | 26.65 | 4.6  | 4.6  | 1.32 | 37.32 |
|    |   | 20 | -    | -    | -    | -    | 2.64 | 2.11 | 0.76 | 14.49 | 2.99 | 2.98 | 0.86 | 17.95 | 3.78 | 3.78 | 1.09 | 26.69 | 4.61 | 4.61 | 1.33 | 37.41 |
|    |   | 15 | 0.75 | 0.75 | 0.16 | 0.93 | 1.66 | 1.66 | 0.36 | 3.97  | 2.5  | 2.5  | 0.54 | 8.01  | 3.34 | 3.34 | 0.72 | 13.15 | 4.16 | 4.16 | 0.9  | 18.96 |
|    |   | 17 | 0.75 | 0.75 | 0.16 | 0.93 | 1.66 | 1.66 | 0.36 | 3.99  | 2.51 | 2.51 | 0.54 | 8.07  | 3.35 | 3.35 | 0.72 | 13.2  | 4.17 | 4.17 | 0.9  | 19.03 |
|    |   | 19 | -    | -    | -    | -    | 1.67 | 1.67 | 0.36 | 4.01  | 2.52 | 2.52 | 0.55 | 8.14  | 3.35 | 3.35 | 0.73 | 13.26 | 4.18 | 4.18 | 0.9  | 19.11 |
|    |   | 20 | -    | -    | -    | -    | 1.65 | 1.58 | 0.36 | 3.96  | 2.53 | 2.52 | 0.55 | 8.19  | 3.36 | 3.36 | 0.73 | 13.29 | 4.18 | 4.18 | 0.9  | 19.16 |
|    |   | 15 | 0.42 | 0.42 | 0.07 | 0.4  | 1.11 | 1.11 | 0.19 | 1.12  | 2.02 | 2.02 | 0.36 | 4.01  | 2.91 | 2.91 | 0.5  | 7.09  | 3.74 | 3.74 | 0.65 | 10.84 |
|    |   | 17 | 0.42 | 0.42 | 0.07 | 0.4  | 1.11 | 1.11 | 0.19 | 1.13  | 2.08 | 2.08 | 0.36 | 4     | 2.92 | 2.92 | 0.51 | 7.12  | 3.75 | 3.75 | 0.65 | 10.88 |
|    |   | 19 | -    | -    | -    | -    | 1.11 | 1.11 | 0.19 | 1.13  | 2.08 | 2.08 | 0.36 | 4.02  | 2.93 | 2.93 | 0.51 | 7.15  | 3.76 | 3.76 | 0.65 | 10.93 |
|    |   | 20 | -    | -    | -    | -    | 1.12 | 1.12 | 0.19 | 1.13  | 2.08 | 2.08 | 0.36 | 4.03  | 2.93 | 2.93 | 0.51 | 7.17  | 3.76 | 3.76 | 0.65 | 10.95 |
|    | 6 | 15 | -    | -    | -    | -    | 0.78 | 0.78 | 0.11 | 0.62  | 1.49 | 1.49 | 0.22 | 1.33  | 2.47 | 2.47 | 0.36 | 3.95  | 3.31 | 3.31 | 0.48 | 6.45  |
|    |   | 17 | -    | -    | -    | -    | 0.79 | 0.79 | 0.11 | 0.62  | 1.5  | 1.5  | 0.22 | 1.34  | 2.48 | 2.48 | 0.36 | 3.96  | 3.32 | 3.32 | 0.48 | 6.47  |
|    |   | 19 | -    | -    | -    | -    | 0.79 | 0.79 | 0.11 | 0.62  | 1.5  | 1.5  | 0.22 | 1.35  | 2.49 | 2.49 | 0.36 | 3.98  | 3.33 | 3.33 | 0.48 | 6.5   |
|    |   | 20 | -    | -    | -    | -    | 0.79 | 0.79 | 0.11 | 0.63  | 1.5  | 1.5  | 0.22 | 1.35  | 2.49 | 2.49 | 0.36 | 3.99  | 3.34 | 3.34 | 0.48 | 6.51  |

## Abbreviations:

EWT: Enter Water Temp. (°C)    Δt: Temperature Difference (°C)    DB: Dry Bulb Temp. (°C)    WF: Water Flow (m³/h)  
WB: Wet Bulb Temp. (°C)    TC: Total Cooling Capacity (kW)    SC: Sensible Cooling Capacity (kW)    WPD: Water Pressure Drop (kPa)

## 13.2 Heating capacity table

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 1.2                       | 0.13   | 2.72  | 1.04 | 0.11   | 2.17  | 0.89 | 0.1    | 1.67  | 0.74 | 0.08   | 1.18  |
|        | 10   | 1.04                      | 0.09   | 1.49  | 0.88 | 0.08   | 1.03  | 0.7  | 0.06   | 0.63  | 0.55 | 0.05   | 0.41  |
|        | 12   | 0.84                      | 0.06   | 0.62  | 0.69 | 0.05   | 0.45  | 0.56 | 0.04   | 0.34  | 0.43 | 0.03   | 0.27  |
|        | 14   | 0.7                       | 0.04   | 0.38  | 0.57 | 0.04   | 0.31  | 0.44 | 0.03   | 0.24  | 0.31 | 0.02   | 0.17  |
|        | 16   | 0.58                      | 0.03   | 0.29  | 0.45 | 0.02   | 0.22  | 0.31 | 0.02   | 0.16  | 0.16 | 0.01   | 0.08  |
| 45     | 8    | 1.56                      | 0.17   | 4.13  | 1.41 | 0.15   | 3.49  | 1.26 | 0.14   | 2.89  | 1.12 | 0.12   | 2.34  |
|        | 10   | 1.4                       | 0.12   | 2.43  | 1.27 | 0.11   | 2.01  | 1.11 | 0.1    | 1.62  | 0.96 | 0.08   | 1.27  |
|        | 12   | 1.26                      | 0.09   | 1.49  | 1.11 | 0.08   | 1.18  | 0.94 | 0.07   | 0.82  | 0.77 | 0.06   | 0.53  |
|        | 14   | 1.08                      | 0.07   | 0.77  | 0.91 | 0.06   | 0.54  | 0.76 | 0.05   | 0.39  | 0.63 | 0.04   | 0.31  |
|        | 16   | 0.9                       | 0.05   | 0.42  | 0.77 | 0.04   | 0.34  | 0.64 | 0.03   | 0.28  | 0.51 | 0.03   | 0.23  |
| 50     | 8    | 1.91                      | 0.21   | 5.69  | 1.76 | 0.19   | 4.97  | 1.62 | 0.18   | 4.29  | 1.47 | 0.16   | 3.66  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |      |      |      |      |      |      |      |      |      |      |
|----|----|------|------|------|------|------|------|------|------|------|------|------|------|
|    | 10 | 1.77 | 0.15 | 3.46 | 1.62 | 0.14 | 2.99 | 1.48 | 0.13 | 2.55 | 1.33 | 0.12 | 2.13 |
|    | 12 | 1.63 | 0.12 | 2.22 | 1.48 | 0.11 | 1.89 | 1.33 | 0.1  | 1.58 | 1.18 | 0.09 | 1.3  |
|    | 14 | 1.48 | 0.09 | 1.47 | 1.33 | 0.08 | 1.23 | 1.18 | 0.07 | 0.97 | 1.01 | 0.06 | 0.68 |
|    | 16 | 1.32 | 0.07 | 0.92 | 1.15 | 0.06 | 0.67 | 0.98 | 0.05 | 0.48 | 0.83 | 0.05 | 0.36 |
| 55 | 8  | 2.25 | 0.24 | 7.41 | 2.1  | 0.23 | 6.62 | 1.96 | 0.21 | 5.86 | 1.82 | 0.2  | 5.15 |
|    | 10 | 2.11 | 0.18 | 4.59 | 1.97 | 0.17 | 4.07 | 1.83 | 0.16 | 3.58 | 1.68 | 0.15 | 3.11 |
|    | 12 | 1.98 | 0.14 | 3.01 | 1.83 | 0.13 | 2.65 | 1.69 | 0.12 | 2.3  | 1.54 | 0.11 | 1.98 |
|    | 14 | 1.84 | 0.11 | 2.07 | 1.69 | 0.11 | 1.8  | 1.55 | 0.1  | 1.55 | 1.4  | 0.09 | 1.31 |
|    | 16 | 1.7  | 0.09 | 1.45 | 1.55 | 0.08 | 1.24 | 1.39 | 0.08 | 1.05 | 1.24 | 0.07 | 0.83 |
| 60 | 8  | 2.58 | 0.28 | 9.2  | 2.44 | 0.27 | 8.35 | 2.3  | 0.25 | 7.54 | 2.16 | 0.24 | 6.76 |
|    | 10 | 2.45 | 0.21 | 5.74 | 2.31 | 0.2  | 5.18 | 2.17 | 0.19 | 4.65 | 2.03 | 0.18 | 4.14 |
|    | 12 | 2.32 | 0.17 | 3.86 | 2.17 | 0.16 | 3.45 | 2.03 | 0.15 | 3.07 | 1.89 | 0.14 | 2.71 |
|    | 14 | 2.18 | 0.14 | 2.69 | 2.04 | 0.13 | 2.4  | 1.9  | 0.12 | 2.12 | 1.75 | 0.11 | 1.85 |
|    | 16 | 2.05 | 0.11 | 1.94 | 1.9  | 0.1  | 1.71 | 1.75 | 0.1  | 1.5  | 1.61 | 0.09 | 1.29 |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 1.93                      | 0.21   | 3.08  | 1.68 | 0.18   | 2.46  | 1.44 | 0.16   | 1.9   | 1.2  | 0.13   | 1.39  |
|        | 10   | 1.69                      | 0.15   | 1.71  | 1.45 | 0.12   | 1.28  | 1.18 | 0.1    | 0.79  | 0.91 | 0.08   | 0.48  |
|        | 12   | 1.41                      | 0.1    | 0.79  | 1.14 | 0.08   | 0.52  | 0.92 | 0.07   | 0.38  | 0.7  | 0.05   | 0.29  |
|        | 14   | 1.15                      | 0.07   | 0.42  | 0.93 | 0.06   | 0.34  | 0.71 | 0.04   | 0.26  | 0.49 | 0.03   | 0.18  |
|        | 16   | 0.94                      | 0.05   | 0.31  | 0.72 | 0.04   | 0.24  | 0.5  | 0.03   | 0.17  | 0.26 | 0.01   | 0.09  |
| 45     | 8    | 2.5                       | 0.27   | 4.65  | 2.26 | 0.24   | 3.93  | 2.03 | 0.22   | 3.26  | 1.79 | 0.19   | 2.64  |
|        | 10   | 2.27                      | 0.2    | 2.74  | 2.03 | 0.18   | 2.27  | 1.8  | 0.16   | 1.84  | 1.56 | 0.13   | 1.45  |
|        | 12   | 2.04                      | 0.15   | 1.7   | 1.8  | 0.13   | 1.38  | 1.55 | 0.11   | 1.02  | 1.29 | 0.09   | 0.66  |
|        | 14   | 1.78                      | 0.11   | 0.97  | 1.52 | 0.09   | 0.67  | 1.26 | 0.08   | 0.46  | 1.03 | 0.06   | 0.34  |
|        | 16   | 1.49                      | 0.08   | 0.5   | 1.26 | 0.07   | 0.39  | 1.05 | 0.06   | 0.31  | 0.83 | 0.04   | 0.25  |
| 50     | 8    | 3.05                      | 0.33   | 6.39  | 2.82 | 0.31   | 5.58  | 2.58 | 0.28   | 4.82  | 2.36 | 0.26   | 4.11  |
|        | 10   | 2.83                      | 0.25   | 3.89  | 2.6  | 0.23   | 3.36  | 2.36 | 0.21   | 2.86  | 2.13 | 0.19   | 2.4   |



# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |      |      |      |      |      |      |      |
|----|----|------|------|-------|------|------|------|------|------|------|------|------|------|
|    | 12 | 2.61 | 0.19 | 2.5   | 2.38 | 0.17 | 2.13 | 2.13 | 0.15 | 1.79 | 1.9  | 0.14 | 1.47 |
|    | 14 | 2.38 | 0.15 | 1.67  | 2.15 | 0.13 | 1.4  | 1.9  | 0.12 | 1.14 | 1.65 | 0.1  | 0.84 |
|    | 16 | 2.15 | 0.12 | 1.11  | 1.89 | 0.1  | 0.84 | 1.63 | 0.09 | 0.6  | 1.37 | 0.07 | 0.42 |
| 55 | 8  | 3.58 | 0.39 | 8.29  | 3.36 | 0.37 | 7.41 | 3.13 | 0.34 | 6.56 | 2.9  | 0.32 | 5.77 |
|    | 10 | 3.37 | 0.29 | 5.14  | 3.15 | 0.27 | 4.56 | 2.92 | 0.25 | 4.01 | 2.69 | 0.23 | 3.49 |
|    | 12 | 3.16 | 0.23 | 3.38  | 2.93 | 0.21 | 2.97 | 2.69 | 0.2  | 2.58 | 2.47 | 0.18 | 2.22 |
|    | 14 | 2.94 | 0.18 | 2.33  | 2.71 | 0.17 | 2.03 | 2.47 | 0.15 | 1.74 | 2.25 | 0.14 | 1.48 |
|    | 16 | 2.72 | 0.15 | 1.64  | 2.49 | 0.13 | 1.41 | 2.25 | 0.12 | 1.19 | 2.01 | 0.11 | 0.98 |
| 60 | 8  | 4.1  | 0.45 | 10.27 | 3.88 | 0.42 | 9.33 | 3.66 | 0.4  | 8.42 | 3.44 | 0.37 | 7.55 |
|    | 10 | 3.9  | 0.34 | 6.41  | 3.68 | 0.32 | 5.79 | 3.45 | 0.3  | 5.19 | 3.23 | 0.28 | 4.63 |
|    | 12 | 3.69 | 0.27 | 4.31  | 3.47 | 0.25 | 3.87 | 3.24 | 0.23 | 3.44 | 3.01 | 0.22 | 3.04 |
|    | 14 | 3.48 | 0.22 | 3.01  | 3.26 | 0.2  | 2.68 | 3.02 | 0.19 | 2.37 | 2.8  | 0.17 | 2.08 |
|    | 16 | 3.27 | 0.18 | 2.17  | 3.04 | 0.16 | 1.92 | 2.81 | 0.15 | 1.68 | 2.58 | 0.14 | 1.46 |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 2.96                      | 0.32   | 8.51  | 2.59 | 0.28   | 6.75  | 2.23 | 0.24   | 5.22  | 1.86 | 0.2    | 3.85  |
|        | 10   | 2.61                      | 0.23   | 4.72  | 2.23 | 0.19   | 3.65  | 1.87 | 0.16   | 2.69  | 1.49 | 0.13   | 1.82  |
|        | 12   | 2.25                      | 0.16   | 2.74  | 1.86 | 0.14   | 2     | 1.47 | 0.11   | 1.15  | 1.07 | 0.08   | 0.63  |
|        | 14   | 1.85                      | 0.11   | 1.34  | 1.44 | 0.09   | 0.8   | 1.08 | 0.07   | 0.53  | 0.74 | 0.05   | 0.36  |
|        | 16   | 1.44                      | 0.08   | 0.66  | 1.1  | 0.06   | 0.48  | 0.75 | 0.04   | 0.34  | 0.39 | 0.02   | 0.18  |
| 45     | 8    | 3.82                      | 0.41   | 12.79 | 3.47 | 0.37   | 10.8  | 3.1  | 0.34   | 8.95  | 2.75 | 0.3    | 7.26  |
|        | 10   | 3.49                      | 0.3    | 7.51  | 3.13 | 0.27   | 6.26  | 2.77 | 0.24   | 5.07  | 2.4  | 0.21   | 3.98  |
|        | 12   | 3.14                      | 0.23   | 4.67  | 2.78 | 0.2    | 3.79  | 2.41 | 0.17   | 2.99  | 2.04 | 0.15   | 2.26  |
|        | 14   | 2.79                      | 0.17   | 2.97  | 2.42 | 0.15   | 2.34  | 2.05 | 0.13   | 1.75  | 1.66 | 0.1    | 1.07  |
|        | 16   | 2.41                      | 0.13   | 1.88  | 2.04 | 0.11   | 1.26  | 1.63 | 0.09   | 0.78  | 1.26 | 0.07   | 0.51  |
| 50     | 8    | 4.67                      | 0.51   | 17.61 | 4.31 | 0.47   | 15.38 | 3.96 | 0.43   | 13.27 | 3.61 | 0.39   | 11.3  |
|        | 10   | 4.34                      | 0.38   | 10.69 | 3.98 | 0.35   | 9.23  | 3.63 | 0.32   | 7.87  | 3.27 | 0.28   | 6.59  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |       |      |      |       |      |      |       |
|----|----|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 4.01 | 0.29 | 6.85  | 3.65 | 0.26 | 5.84  | 3.28 | 0.24 | 4.9   | 2.93 | 0.21 | 4.03  |
|    | 14 | 3.67 | 0.23 | 4.58  | 3.31 | 0.2  | 3.84  | 2.94 | 0.18 | 3.16  | 2.58 | 0.16 | 2.53  |
|    | 16 | 3.32 | 0.18 | 3.13  | 2.96 | 0.16 | 2.57  | 2.59 | 0.14 | 2.06  | 2.22 | 0.12 | 1.58  |
| 55 | 8  | 5.48 | 0.6  | 22.9  | 5.14 | 0.56 | 20.55 | 4.8  | 0.52 | 18.21 | 4.44 | 0.48 | 15.98 |
|    | 10 | 5.16 | 0.45 | 14.12 | 4.82 | 0.42 | 12.51 | 4.47 | 0.39 | 10.99 | 4.12 | 0.36 | 9.59  |
|    | 12 | 4.84 | 0.35 | 9.29  | 4.49 | 0.33 | 8.16  | 4.14 | 0.3  | 7.1   | 3.79 | 0.27 | 6.1   |
|    | 14 | 4.52 | 0.28 | 6.39  | 4.16 | 0.26 | 5.56  | 3.81 | 0.24 | 4.78  | 3.45 | 0.21 | 4.04  |
|    | 16 | 4.18 | 0.23 | 4.49  | 3.82 | 0.21 | 3.86  | 3.46 | 0.19 | 3.27  | 3.11 | 0.17 | 2.72  |
| 60 | 8  | 6.27 | 0.68 | 28.33 | 5.93 | 0.64 | 25.7  | 5.6  | 0.61 | 23.18 | 5.25 | 0.57 | 20.79 |
|    | 10 | 5.96 | 0.52 | 17.77 | 5.62 | 0.49 | 16.04 | 5.28 | 0.46 | 14.39 | 4.94 | 0.43 | 12.76 |
|    | 12 | 5.65 | 0.41 | 11.88 | 5.31 | 0.39 | 10.65 | 4.96 | 0.36 | 9.49  | 4.62 | 0.34 | 8.38  |
|    | 14 | 5.34 | 0.33 | 8.28  | 4.99 | 0.31 | 7.37  | 4.64 | 0.29 | 6.51  | 4.3  | 0.27 | 5.7   |
|    | 16 | 5.02 | 0.27 | 5.98  | 4.67 | 0.25 | 5.28  | 4.32 | 0.23 | 4.62  | 3.96 | 0.22 | 4     |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 3.76                      | 0.41   | 12.76 | 3.3  | 0.36   | 10.19 | 2.84 | 0.31   | 7.83  | 2.37 | 0.26   | 5.78  |
|        | 10   | 3.31                      | 0.29   | 7.07  | 2.85 | 0.25   | 5.47  | 2.38 | 0.21   | 4.04  | 1.91 | 0.16   | 2.78  |
|        | 12   | 2.86                      | 0.21   | 4.08  | 2.39 | 0.17   | 3.03  | 1.91 | 0.14   | 2.06  | 1.32 | 0.09   | 0.91  |
|        | 14   | 2.38                      | 0.15   | 2.34  | 1.82 | 0.11   | 1.31  | 1.26 | 0.08   | 0.64  | 0.88 | 0.05   | 0.42  |
|        | 16   | 1.71                      | 0.09   | 0.87  | 1.27 | 0.07   | 0.56  | 0.9  | 0.05   | 0.4   | 0.5  | 0.03   | 0.22  |
| 45     | 8    | 4.86                      | 0.53   | 19.31 | 4.41 | 0.48   | 16.31 | 3.95 | 0.43   | 13.52 | 3.5  | 0.38   | 10.96 |
|        | 10   | 4.44                      | 0.38   | 11.33 | 3.98 | 0.34   | 9.41  | 3.53 | 0.3    | 7.63  | 3.07 | 0.27   | 6.04  |
|        | 12   | 4.01                      | 0.29   | 7.04  | 3.54 | 0.26   | 5.72  | 3.08 | 0.22   | 4.51  | 2.62 | 0.19   | 3.42  |
|        | 14   | 3.56                      | 0.22   | 4.47  | 3.09 | 0.19   | 3.52  | 2.62 | 0.16   | 2.66  | 2.14 | 0.13   | 1.9   |
|        | 16   | 3.1                       | 0.17   | 2.86  | 2.63 | 0.14   | 2.16  | 2.1  | 0.11   | 1.36  | 1.5  | 0.08   | 0.67  |
| 50     | 8    | 5.94                      | 0.64   | 26.85 | 5.49 | 0.6    | 23.44 | 5.05 | 0.55   | 20.25 | 4.6  | 0.5    | 17.14 |
|        | 10   | 5.53                      | 0.48   | 16.22 | 5.08 | 0.44   | 14.01 | 4.63 | 0.4    | 11.93 | 4.18 | 0.36   | 10.01 |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |       |      |      |       |      |      |       |
|----|----|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 5.11 | 0.37 | 10.38 | 4.66 | 0.34 | 8.85  | 4.21 | 0.3  | 7.43  | 3.75 | 0.27 | 6.11  |
|    | 14 | 4.69 | 0.29 | 6.93  | 4.23 | 0.26 | 5.81  | 3.77 | 0.23 | 4.78  | 3.31 | 0.2  | 3.83  |
|    | 16 | 4.25 | 0.23 | 4.72  | 3.79 | 0.21 | 3.89  | 3.33 | 0.18 | 3.12  | 2.86 | 0.15 | 2.42  |
| 55 | 8  | 6.99 | 0.76 | 35.01 | 6.55 | 0.71 | 31.2  | 6.11 | 0.66 | 27.62 | 5.66 | 0.62 | 24.24 |
|    | 10 | 6.59 | 0.57 | 21.51 | 6.15 | 0.53 | 19.07 | 5.71 | 0.5  | 16.75 | 5.25 | 0.46 | 14.55 |
|    | 12 | 6.19 | 0.45 | 14.19 | 5.74 | 0.42 | 12.47 | 5.29 | 0.38 | 10.8  | 4.85 | 0.35 | 9.29  |
|    | 14 | 5.78 | 0.36 | 9.7   | 5.33 | 0.33 | 8.44  | 4.88 | 0.3  | 7.28  | 4.43 | 0.28 | 6.17  |
|    | 16 | 5.36 | 0.29 | 6.85  | 4.91 | 0.27 | 5.89  | 4.45 | 0.24 | 4.97  | 3.99 | 0.22 | 4.14  |
| 60 | 8  | 8.01 | 0.87 | 43.39 | 7.57 | 0.82 | 39.45 | 7.14 | 0.78 | 35.58 | 6.71 | 0.73 | 32    |
|    | 10 | 7.62 | 0.66 | 27.21 | 7.19 | 0.63 | 24.55 | 6.76 | 0.59 | 22.01 | 6.32 | 0.55 | 19.59 |
|    | 12 | 7.23 | 0.52 | 18.11 | 6.79 | 0.49 | 16.24 | 6.36 | 0.46 | 14.52 | 5.92 | 0.43 | 12.82 |
|    | 14 | 6.84 | 0.42 | 12.65 | 6.4  | 0.4  | 11.27 | 5.95 | 0.37 | 9.96  | 5.51 | 0.34 | 8.72  |
|    | 16 | 6.43 | 0.35 | 9.13  | 5.99 | 0.33 | 8.07  | 5.54 | 0.3  | 7.06  | 5.09 | 0.28 | 6.12  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 4.59                      | 0.5    | 9.35  | 4.03 | 0.44   | 7.42  | 3.46 | 0.37   | 5.72  | 2.89 | 0.31   | 4.21  |
|        | 10   | 4.04                      | 0.35   | 5.15  | 3.47 | 0.3    | 3.97  | 2.88 | 0.25   | 2.91  | 2.28 | 0.2    | 1.98  |
|        | 12   | 3.47                      | 0.25   | 2.95  | 2.87 | 0.21   | 2.14  | 2.17 | 0.16   | 1.25  | 1.53 | 0.09   | 0.46  |
|        | 14   | 2.76                      | 0.17   | 1.49  | 2.08 | 0.11   | 0.59  | 1.34 | 0.08   | 0.4   | 0.97 | 0.06   | 0.29  |
|        | 16   | 1.75                      | 0.09   | 0.48  | 1.38 | 0.07   | 0.38  | 1    | 0.05   | 0.28  | 0.59 | 0.03   | 0.17  |
| 45     | 8    | 5.98                      | 0.65   | 14.25 | 5.42 | 0.59   | 12.03 | 4.86 | 0.53   | 9.97  | 4.3  | 0.47   | 8.08  |
|        | 10   | 5.45                      | 0.47   | 8.34  | 4.89 | 0.42   | 6.93  | 4.33 | 0.38   | 5.64  | 3.75 | 0.32   | 4.41  |
|        | 12   | 4.92                      | 0.35   | 5.16  | 4.34 | 0.31   | 4.18  | 3.76 | 0.27   | 3.29  | 3.18 | 0.23   | 2.48  |
|        | 14   | 4.33                      | 0.27   | 3.24  | 3.75 | 0.23   | 2.54  | 3.17 | 0.2    | 1.9   | 2.51 | 0.15   | 1.24  |
|        | 16   | 3.74                      | 0.2    | 2.04  | 3.1  | 0.17   | 1.46  | 2.14 | 0.12   | 0.65  | 1.56 | 0.08   | 0.39  |
| 50     | 8    | 7.34                      | 0.8    | 19.93 | 6.78 | 0.73   | 17.31 | 6.22 | 0.67   | 14.93 | 5.67 | 0.61   | 12.71 |
|        | 10   | 6.82                      | 0.59   | 12.02 | 6.27 | 0.54   | 10.38 | 5.71 | 0.5    | 8.84  | 5.15 | 0.45   | 7.41  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |       |      |      |       |      |      |       |
|----|----|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 6.3  | 0.45 | 7.68  | 5.73 | 0.41 | 6.54  | 5.18 | 0.37 | 5.49  | 4.61 | 0.33 | 4.51  |
|    | 14 | 5.76 | 0.36 | 5.11  | 5.2  | 0.32 | 4.28  | 4.63 | 0.29 | 3.51  | 4.05 | 0.25 | 2.81  |
|    | 16 | 5.22 | 0.28 | 3.47  | 4.64 | 0.25 | 2.84  | 4.06 | 0.22 | 2.27  | 3.47 | 0.19 | 1.74  |
| 55 | 8  | 8.65 | 0.94 | 26.07 | 8.1  | 0.88 | 23.25 | 7.56 | 0.82 | 20.7  | 7.02 | 0.76 | 18.17 |
|    | 10 | 8.16 | 0.71 | 16.03 | 7.6  | 0.66 | 14.2  | 7.05 | 0.61 | 12.47 | 6.51 | 0.57 | 10.84 |
|    | 12 | 7.65 | 0.55 | 10.52 | 7.09 | 0.51 | 9.24  | 6.54 | 0.47 | 8.04  | 5.99 | 0.43 | 6.9   |
|    | 14 | 7.14 | 0.44 | 7.23  | 6.58 | 0.41 | 6.29  | 6.03 | 0.37 | 5.4   | 5.47 | 0.34 | 4.58  |
|    | 16 | 6.61 | 0.36 | 5.07  | 6.05 | 0.33 | 4.34  | 5.48 | 0.3  | 3.68  | 4.91 | 0.27 | 3.06  |
| 60 | 8  | 9.95 | 1.08 | 32.69 | 9.41 | 1.02 | 29.58 | 8.87 | 0.96 | 26.59 | 8.33 | 0.9  | 23.83 |
|    | 10 | 9.47 | 0.82 | 20.38 | 8.92 | 0.78 | 18.38 | 8.38 | 0.73 | 16.47 | 7.84 | 0.68 | 14.66 |
|    | 12 | 8.98 | 0.65 | 13.6  | 8.43 | 0.61 | 12.19 | 7.88 | 0.57 | 10.86 | 7.34 | 0.53 | 9.59  |
|    | 14 | 8.48 | 0.53 | 9.45  | 7.93 | 0.49 | 8.42  | 7.33 | 0.46 | 7.42  | 6.83 | 0.42 | 6.51  |
|    | 16 | 7.97 | 0.43 | 6.81  | 7.42 | 0.4  | 6.02  | 6.86 | 0.37 | 5.27  | 6.31 | 0.34 | 4.56  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| (none) |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|--------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT    | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|        |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|        |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]   | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40     | 8    | 5.46                      | 0.59   | 6.24  | 4.77 | 0.52   | 4.98  | 4.1  | 0.44   | 3.84  | 3.42 | 0.37   | 2.82  |
|        | 10   | 4.8                       | 0.41   | 3.46  | 4.11 | 0.35   | 2.66  | 3.4  | 0.29   | 1.95  | 2.65 | 0.23   | 1.18  |
|        | 12   | 4.08                      | 0.3    | 1.98  | 3.34 | 0.24   | 1.29  | 2.36 | 0.17   | 0.62  | 1.74 | 0.13   | 0.4   |
|        | 14   | 3                         | 0.18   | 0.73  | 2.29 | 0.14   | 0.47  | 1.79 | 0.11   | 0.36  | 1.27 | 0.08   | 0.26  |
|        | 16   | 2.34                      | 0.13   | 0.43  | 1.83 | 0.1    | 0.34  | 1.31 | 0.07   | 0.24  | 0.73 | 0.04   | 0.14  |
| 45     | 8    | 7.09                      | 0.77   | 9.51  | 6.42 | 0.69   | 8.03  | 5.77 | 0.62   | 6.66  | 5.09 | 0.55   | 5.39  |
|        | 10   | 6.46                      | 0.56   | 5.6   | 5.79 | 0.5    | 4.64  | 5.11 | 0.44   | 3.74  | 4.44 | 0.38   | 2.95  |
|        | 12   | 5.8                       | 0.42   | 3.45  | 5.12 | 0.37   | 2.8   | 4.44 | 0.32   | 2.2   | 3.74 | 0.27   | 1.65  |
|        | 14   | 5.11                      | 0.32   | 2.17  | 4.41 | 0.27   | 1.7   | 3.65 | 0.23   | 1.16  | 2.72 | 0.17   | 0.6   |
|        | 16   | 4.35                      | 0.23   | 1.24  | 3.4  | 0.18   | 0.72  | 2.61 | 0.14   | 0.45  | 2.08 | 0.11   | 0.34  |
| 50     | 8    | 8.67                      | 0.94   | 13.16 | 8.02 | 0.87   | 11.49 | 7.36 | 0.8    | 9.91  | 6.71 | 0.73   | 8.45  |
|        | 10   | 8.06                      | 0.7    | 7.99  | 7.4  | 0.64   | 6.9   | 6.75 | 0.59   | 5.88  | 6.08 | 0.53   | 4.92  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |       |      |       |       |      |       |       |      |       |      |      |       |
|----|----|-------|------|-------|-------|------|-------|-------|------|-------|------|------|-------|
|    | 12 | 7.44  | 0.54 | 5.11  | 6.77  | 0.49 | 4.35  | 6.11  | 0.44 | 3.65  | 5.44 | 0.39 | 3     |
|    | 14 | 6.79  | 0.42 | 3.4   | 6.13  | 0.38 | 2.85  | 5.45  | 0.34 | 2.34  | 4.76 | 0.29 | 1.87  |
|    | 16 | 6.13  | 0.33 | 2.31  | 5.46  | 0.3  | 1.89  | 4.77  | 0.26 | 1.51  | 4.02 | 0.22 | 1.08  |
| 55 | 8  | 10.22 | 1.11 | 17.28 | 9.58  | 1.04 | 15.43 | 8.93  | 0.97 | 13.67 | 8.28 | 0.9  | 11.94 |
|    | 10 | 9.63  | 0.84 | 10.59 | 8.98  | 0.78 | 9.43  | 8.33  | 0.73 | 8.28  | 7.68 | 0.67 | 7.2   |
|    | 12 | 9.02  | 0.65 | 6.97  | 8.37  | 0.61 | 6.12  | 7.72  | 0.56 | 5.32  | 7.06 | 0.51 | 4.57  |
|    | 14 | 8.42  | 0.52 | 4.79  | 7.76  | 0.48 | 4.17  | 7.1   | 0.44 | 3.58  | 6.43 | 0.4  | 3.03  |
|    | 16 | 7.78  | 0.42 | 3.36  | 7.12  | 0.39 | 2.88  | 6.46  | 0.35 | 2.44  | 5.77 | 0.31 | 2.03  |
| 60 | 8  | 11.73 | 1.27 | 21.35 | 11.09 | 1.2  | 19.37 | 10.45 | 1.14 | 17.47 | 9.82 | 1.07 | 15.67 |
|    | 10 | 11.15 | 0.97 | 13.34 | 10.51 | 0.91 | 12.04 | 9.87  | 0.86 | 10.8  | 9.23 | 0.8  | 9.61  |
|    | 12 | 10.57 | 0.77 | 8.95  | 9.93  | 0.72 | 8.03  | 9.28  | 0.67 | 7.15  | 8.63 | 0.63 | 6.32  |
|    | 14 | 9.98  | 0.62 | 6.23  | 9.33  | 0.58 | 5.55  | 8.68  | 0.54 | 4.91  | 8.03 | 0.5  | 4.29  |
|    | 16 | 9.37  | 0.51 | 4.5   | 8.72  | 0.47 | 3.97  | 8.06  | 0.44 | 3.48  | 7.4  | 0.4  | 3     |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-05-W9 |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|-----------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|           |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|           |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]      | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40        | 8    | 1.24                      | 0.13   | 2.89  | 1.08 | 0.12   | 2.3   | 0.93 | 0.1    | 1.77  | 0.77 | 0.08   | 1.28  |
|           | 10   | 1.08                      | 0.09   | 1.59  | 0.91 | 0.08   | 1.14  | 0.73 | 0.06   | 0.68  | 0.57 | 0.05   | 0.43  |
|           | 12   | 0.87                      | 0.06   | 0.68  | 0.71 | 0.05   | 0.47  | 0.58 | 0.04   | 0.36  | 0.45 | 0.03   | 0.27  |
|           | 14   | 0.72                      | 0.04   | 0.39  | 0.6  | 0.04   | 0.32  | 0.46 | 0.03   | 0.25  | 0.32 | 0.02   | 0.17  |
|           | 16   | 0.6                       | 0.03   | 0.29  | 0.46 | 0.03   | 0.23  | 0.32 | 0.02   | 0.16  | 0.17 | 0.01   | 0.09  |
| 45        | 8    | 1.62                      | 0.17   | 4.39  | 1.46 | 0.16   | 3.71  | 1.31 | 0.14   | 3.07  | 1.16 | 0.13   | 2.49  |
|           | 10   | 1.47                      | 0.13   | 2.57  | 1.31 | 0.11   | 2.13  | 1.16 | 0.1    | 1.73  | 1    | 0.09   | 1.35  |
|           | 12   | 1.31                      | 0.09   | 1.59  | 1.15 | 0.08   | 1.28  | 0.98 | 0.07   | 0.9   | 0.8  | 0.06   | 0.57  |
|           | 14   | 1.13                      | 0.07   | 0.85  | 0.95 | 0.06   | 0.58  | 0.79 | 0.05   | 0.41  | 0.65 | 0.04   | 0.32  |
|           | 16   | 0.93                      | 0.05   | 0.45  | 0.79 | 0.04   | 0.36  | 0.66 | 0.04   | 0.29  | 0.53 | 0.03   | 0.23  |
| 50        | 8    | 1.98                      | 0.21   | 6.05  | 1.83 | 0.2    | 5.29  | 1.68 | 0.18   | 4.57  | 1.53 | 0.17   | 3.89  |
|           | 10   | 1.83                      | 0.16   | 3.68  | 1.68 | 0.15   | 3.18  | 1.52 | 0.13   | 2.7   | 1.38 | 0.12   | 2.27  |

| Universal Fancoil DC |    |      |      |      |      |      |      |      |      | MUC-W9 series |      |      |      |
|----------------------|----|------|------|------|------|------|------|------|------|---------------|------|------|------|
|                      | 12 | 1.69 | 0.12 | 2.36 | 1.54 | 0.11 | 2.01 | 1.38 | 0.1  | 1.68          | 1.23 | 0.09 | 1.38 |
|                      | 14 | 1.54 | 0.1  | 1.56 | 1.38 | 0.09 | 1.31 | 1.22 | 0.08 | 1.05          | 1.05 | 0.06 | 0.75 |
|                      | 16 | 1.37 | 0.07 | 1.01 | 1.2  | 0.06 | 0.74 | 1.02 | 0.06 | 0.52          | 0.86 | 0.05 | 0.38 |
| 55                   | 8  | 2.33 | 0.25 | 7.88 | 2.18 | 0.24 | 7.04 | 2.03 | 0.22 | 6.24          | 1.89 | 0.21 | 5.48 |
|                      | 10 | 2.19 | 0.19 | 4.89 | 2.04 | 0.18 | 4.33 | 1.9  | 0.17 | 3.81          | 1.75 | 0.15 | 3.31 |
|                      | 12 | 2.05 | 0.15 | 3.2  | 1.9  | 0.14 | 2.82 | 1.75 | 0.13 | 2.45          | 1.6  | 0.12 | 2.1  |
|                      | 14 | 1.91 | 0.12 | 2.2  | 1.76 | 0.11 | 1.92 | 1.6  | 0.1  | 1.65          | 1.45 | 0.09 | 1.39 |
|                      | 16 | 1.76 | 0.1  | 1.54 | 1.61 | 0.09 | 1.32 | 1.45 | 0.08 | 1.12          | 1.29 | 0.07 | 0.9  |
| 60                   | 8  | 2.67 | 0.29 | 9.8  | 2.53 | 0.28 | 8.89 | 2.38 | 0.26 | 8.02          | 2.24 | 0.24 | 7.2  |
|                      | 10 | 2.54 | 0.22 | 6.11 | 2.39 | 0.21 | 5.51 | 2.25 | 0.2  | 4.95          | 2.1  | 0.18 | 4.41 |
|                      | 12 | 2.4  | 0.17 | 4.1  | 2.26 | 0.16 | 3.68 | 2.11 | 0.15 | 3.27          | 1.96 | 0.14 | 2.89 |
|                      | 14 | 2.27 | 0.14 | 2.86 | 2.12 | 0.13 | 2.55 | 1.97 | 0.12 | 2.25          | 1.82 | 0.11 | 1.97 |
|                      | 16 | 2.12 | 0.12 | 2.06 | 1.97 | 0.11 | 1.82 | 1.82 | 0.1  | 1.59          | 1.67 | 0.09 | 1.38 |

#### Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m<sup>3</sup>/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-08-W9 |      |                           |                     |       |      |                     |       |      |                     |       |      |                     |       |
|-----------|------|---------------------------|---------------------|-------|------|---------------------|-------|------|---------------------|-------|------|---------------------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |                     |       |      |                     |       |      |                     |       |      |                     |       |
|           |      | 16                        |                     |       | 18   |                     |       | 20   |                     |       | 22   |                     |       |
|           |      | TH                        | WF                  | WPD   | TH   | WF                  | WPD   | TH   | WF                  | WPD   | TH   | WF                  | WPD   |
| [°C]      | [°C] | [kW]                      | [m <sup>3</sup> /h] | [kPa] | [kW] | [m <sup>3</sup> /h] | [kPa] | [kW] | [m <sup>3</sup> /h] | [kPa] | [kW] | [m <sup>3</sup> /h] | [kPa] |
| 40        | 8    | 2.04                      | 0.22                | 3.39  | 1.78 | 0.19                | 2.71  | 1.53 | 0.17                | 2.09  | 1.28 | 0.14                | 1.54  |
|           | 10   | 1.79                      | 0.15                | 1.89  | 1.53 | 0.13                | 1.45  | 1.26 | 0.11                | 0.93  | 0.98 | 0.08                | 0.54  |
|           | 12   | 1.51                      | 0.11                | 0.92  | 1.23 | 0.09                | 0.6   | 0.98 | 0.07                | 0.41  | 0.75 | 0.05                | 0.31  |
|           | 14   | 1.22                      | 0.08                | 0.46  | 0.99 | 0.06                | 0.36  | 0.76 | 0.05                | 0.28  | 0.52 | 0.03                | 0.19  |
|           | 16   | 1                         | 0.05                | 0.33  | 0.77 | 0.04                | 0.26  | 0.52 | 0.03                | 0.18  | 0.27 | 0.01                | 0.09  |
| 45        | 8    | 2.64                      | 0.29                | 5.11  | 2.39 | 0.26                | 4.32  | 2.14 | 0.23                | 3.59  | 1.89 | 0.2                 | 2.91  |
|           | 10   | 2.4                       | 0.21                | 3.01  | 2.15 | 0.19                | 2.5   | 1.9  | 0.16                | 2.03  | 1.65 | 0.14                | 1.59  |
|           | 12   | 2.16                      | 0.16                | 1.87  | 1.9  | 0.14                | 1.52  | 1.65 | 0.12                | 1.17  | 1.38 | 0.1                 | 0.77  |
|           | 14   | 1.9                       | 0.12                | 1.12  | 1.62 | 0.1                 | 0.78  | 1.35 | 0.08                | 0.53  | 1.09 | 0.07                | 0.37  |
|           | 16   | 1.6                       | 0.09                | 0.57  | 1.34 | 0.07                | 0.42  | 1.11 | 0.06                | 0.33  | 0.88 | 0.05                | 0.26  |
| 50        | 8    | 3.22                      | 0.35                | 7.02  | 2.98 | 0.32                | 6.14  | 2.73 | 0.3                 | 5.3   | 2.49 | 0.27                | 4.52  |
|           | 10   | 2.99                      | 0.26                | 4.27  | 2.75 | 0.24                | 3.69  | 2.5  | 0.22                | 3.15  | 2.26 | 0.2                 | 2.64  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |      |      |      |       |      |      |      |      |      |      |
|----|----|------|------|------|------|------|-------|------|------|------|------|------|------|
|    | 12 | 2.76 | 0.2  | 2.75 | 2.51 | 0.18 | 2.34  | 2.26 | 0.16 | 1.96 | 2.01 | 0.15 | 1.61 |
|    | 14 | 2.52 | 0.16 | 1.83 | 2.27 | 0.14 | 1.54  | 2.02 | 0.12 | 1.26 | 1.76 | 0.11 | 0.97 |
|    | 16 | 2.28 | 0.12 | 1.25 | 2.01 | 0.11 | 0.97  | 1.74 | 0.09 | 0.69 | 1.47 | 0.08 | 0.48 |
| 55 | 8  | 3.79 | 0.41 | 9.12 | 3.55 | 0.39 | 8.14  | 3.31 | 0.36 | 7.22 | 3.07 | 0.33 | 6.34 |
|    | 10 | 3.57 | 0.31 | 5.65 | 3.32 | 0.29 | 5.01  | 3.08 | 0.27 | 4.41 | 2.84 | 0.25 | 3.83 |
|    | 12 | 3.34 | 0.24 | 3.71 | 3.09 | 0.22 | 3.26  | 2.85 | 0.21 | 2.84 | 2.61 | 0.19 | 2.44 |
|    | 14 | 3.11 | 0.19 | 2.56 | 2.87 | 0.18 | 2.23  | 2.62 | 0.16 | 1.91 | 2.37 | 0.15 | 1.62 |
|    | 16 | 2.88 | 0.16 | 1.8  | 2.63 | 0.14 | 1.55  | 2.38 | 0.13 | 1.31 | 2.13 | 0.12 | 1.09 |
| 60 | 8  | 4.33 | 0.47 | 11.3 | 4.1  | 0.45 | 10.26 | 3.86 | 0.42 | 9.26 | 3.63 | 0.4  | 8.3  |
|    | 10 | 4.12 | 0.36 | 7.05 | 3.88 | 0.34 | 6.36  | 3.65 | 0.32 | 5.71 | 3.41 | 0.3  | 5.09 |
|    | 12 | 3.9  | 0.28 | 4.74 | 3.66 | 0.27 | 4.25  | 3.42 | 0.25 | 3.79 | 3.19 | 0.23 | 3.34 |
|    | 14 | 3.68 | 0.23 | 3.31 | 3.44 | 0.21 | 2.95  | 3.2  | 0.2  | 2.61 | 2.96 | 0.18 | 2.28 |
|    | 16 | 3.46 | 0.19 | 2.39 | 3.21 | 0.17 | 2.11  | 2.97 | 0.16 | 1.85 | 2.73 | 0.15 | 1.6  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-11-W9 |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|-----------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|           |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|           |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]      | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40        | 8    | 3.04                      | 0.33   | 8.86  | 2.65 | 0.29   | 7.04  | 2.29 | 0.25   | 5.44  | 1.91 | 0.21   | 4.01  |
|           | 10   | 2.67                      | 0.23   | 4.92  | 2.29 | 0.2    | 3.8   | 1.92 | 0.17   | 2.8   | 1.53 | 0.13   | 1.92  |
|           | 12   | 2.3                       | 0.17   | 2.86  | 1.91 | 0.14   | 2.1   | 1.51 | 0.11   | 1.22  | 1.1  | 0.08   | 0.65  |
|           | 14   | 1.9                       | 0.12   | 1.43  | 1.48 | 0.09   | 0.84  | 1.11 | 0.07   | 0.54  | 0.76 | 0.05   | 0.37  |
|           | 16   | 1.47                      | 0.08   | 0.68  | 1.12 | 0.06   | 0.5   | 0.77 | 0.04   | 0.34  | 0.4  | 0.02   | 0.18  |
| 45        | 8    | 3.92                      | 0.42   | 13.35 | 3.55 | 0.38   | 11.27 | 3.18 | 0.34   | 9.34  | 2.82 | 0.3    | 7.57  |
|           | 10   | 3.57                      | 0.31   | 7.83  | 3.21 | 0.28   | 6.53  | 2.83 | 0.25   | 5.29  | 2.46 | 0.21   | 4.15  |
|           | 12   | 3.22                      | 0.23   | 4.87  | 2.85 | 0.21   | 3.95  | 2.47 | 0.18   | 3.12  | 2.1  | 0.15   | 2.36  |
|           | 14   | 2.86                      | 0.18   | 3.1   | 2.48 | 0.15   | 2.44  | 2.1  | 0.13   | 1.84  | 1.7  | 0.1    | 1.14  |
|           | 16   | 2.48                      | 0.13   | 1.98  | 2.09 | 0.11   | 1.34  | 1.67 | 0.09   | 0.82  | 1.29 | 0.07   | 0.53  |
| 50        | 8    | 4.78                      | 0.52   | 18.38 | 4.42 | 0.48   | 16.05 | 4.06 | 0.44   | 13.85 | 3.7  | 0.4    | 11.79 |
|           | 10   | 4.45                      | 0.39   | 11.16 | 4.08 | 0.35   | 9.63  | 3.72 | 0.32   | 8.21  | 3.35 | 0.29   | 6.88  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |       |      |      |       |      |      |       |
|----|----|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 4.11 | 0.3  | 7.15  | 3.74 | 0.27 | 6.09  | 3.37 | 0.24 | 5.11  | 3.01 | 0.22 | 4.2   |
|    | 14 | 3.76 | 0.23 | 4.77  | 3.39 | 0.21 | 4     | 3.01 | 0.19 | 3.29  | 2.65 | 0.16 | 2.64  |
|    | 16 | 3.41 | 0.18 | 3.26  | 3.03 | 0.16 | 2.68  | 2.65 | 0.14 | 2.15  | 2.28 | 0.12 | 1.66  |
| 55 | 8  | 5.62 | 0.61 | 23.91 | 5.27 | 0.57 | 21.45 | 4.92 | 0.54 | 19    | 4.55 | 0.5  | 16.68 |
|    | 10 | 5.29 | 0.46 | 14.74 | 4.94 | 0.43 | 13.06 | 4.58 | 0.4  | 11.47 | 4.22 | 0.37 | 9.96  |
|    | 12 | 4.96 | 0.36 | 9.69  | 4.6  | 0.33 | 8.52  | 4.24 | 0.31 | 7.4   | 3.88 | 0.28 | 6.36  |
|    | 14 | 4.63 | 0.29 | 6.67  | 4.27 | 0.27 | 5.8   | 3.9  | 0.24 | 4.98  | 3.54 | 0.22 | 4.22  |
|    | 16 | 4.29 | 0.23 | 4.68  | 3.92 | 0.21 | 4.03  | 3.55 | 0.19 | 3.41  | 3.19 | 0.17 | 2.84  |
| 60 | 8  | 6.43 | 0.7  | 29.66 | 6.08 | 0.66 | 26.84 | 5.77 | 0.62 | 24.19 | 5.39 | 0.58 | 21.7  |
|    | 10 | 6.12 | 0.53 | 18.56 | 5.76 | 0.5  | 16.74 | 5.41 | 0.47 | 15.02 | 5.06 | 0.44 | 13.32 |
|    | 12 | 5.8  | 0.42 | 12.4  | 5.44 | 0.39 | 11.12 | 5.09 | 0.37 | 9.9   | 4.73 | 0.34 | 8.74  |
|    | 14 | 5.47 | 0.34 | 8.64  | 5.12 | 0.32 | 7.69  | 4.76 | 0.3  | 6.8   | 4.4  | 0.27 | 5.95  |
|    | 16 | 5.14 | 0.28 | 6.24  | 4.78 | 0.26 | 5.51  | 4.42 | 0.24 | 4.82  | 4.06 | 0.22 | 4.17  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-16-W9 |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|-----------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|           |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|           |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]      | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40        | 8    | 3.8                       | 0.41   | 13    | 3.33 | 0.36   | 10.39 | 2.87 | 0.31   | 7.98  | 2.4  | 0.26   | 5.89  |
|           | 10   | 3.35                      | 0.29   | 7.21  | 2.88 | 0.25   | 5.57  | 2.41 | 0.21   | 4.11  | 1.93 | 0.17   | 2.83  |
|           | 12   | 2.9                       | 0.21   | 4.16  | 2.42 | 0.17   | 3.08  | 1.93 | 0.14   | 2.1   | 1.34 | 0.1    | 0.93  |
|           | 14   | 2.41                      | 0.15   | 2.38  | 1.85 | 0.11   | 1.35  | 1.27 | 0.08   | 0.64  | 0.89 | 0.05   | 0.43  |
|           | 16   | 1.73                      | 0.09   | 0.89  | 1.29 | 0.07   | 0.56  | 0.91 | 0.05   | 0.4   | 0.5  | 0.03   | 0.22  |
| 45        | 8    | 4.91                      | 0.53   | 19.68 | 4.45 | 0.48   | 16.62 | 4    | 0.43   | 13.78 | 3.54 | 0.38   | 11.17 |
|           | 10   | 4.49                      | 0.39   | 11.55 | 4.03 | 0.35   | 9.59  | 3.56 | 0.31   | 7.78  | 3.1  | 0.27   | 6.16  |
|           | 12   | 4.06                      | 0.29   | 7.18  | 3.58 | 0.26   | 5.83  | 3.12 | 0.23   | 4.59  | 2.64 | 0.19   | 3.48  |
|           | 14   | 3.6                       | 0.22   | 4.55  | 3.13 | 0.19   | 3.59  | 2.65 | 0.16   | 2.72  | 2.17 | 0.13   | 1.94  |
|           | 16   | 3.14                      | 0.17   | 2.92  | 2.66 | 0.14   | 2.2   | 2.13 | 0.12   | 1.41  | 1.52 | 0.08   | 0.68  |
| 50        | 8    | 6                         | 0.65   | 27.37 | 5.55 | 0.6    | 23.89 | 5.11 | 0.55   | 20.63 | 4.65 | 0.5    | 17.47 |
|           | 10   | 5.59                      | 0.49   | 16.53 | 5.14 | 0.45   | 14.28 | 4.68 | 0.41   | 12.16 | 4.23 | 0.37   | 10.2  |



# Universal Fancoil DC

# MUC-W9 series

|    |    |      |      |       |      |      |       |      |      |       |      |      |       |
|----|----|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 5.16 | 0.37 | 10.58 | 4.71 | 0.34 | 9.02  | 4.25 | 0.31 | 7.57  | 3.79 | 0.27 | 6.22  |
|    | 14 | 4.74 | 0.29 | 7.06  | 4.28 | 0.26 | 5.93  | 3.82 | 0.24 | 4.87  | 3.35 | 0.21 | 3.91  |
|    | 16 | 4.3  | 0.23 | 4.81  | 3.84 | 0.21 | 3.97  | 3.37 | 0.18 | 3.18  | 2.89 | 0.16 | 2.46  |
| 55 | 8  | 7.07 | 0.77 | 35.72 | 6.62 | 0.72 | 31.8  | 6.17 | 0.67 | 28.16 | 5.73 | 0.62 | 24.71 |
|    | 10 | 6.66 | 0.58 | 21.93 | 6.22 | 0.54 | 19.43 | 5.77 | 0.5  | 17.07 | 5.31 | 0.46 | 14.84 |
|    | 12 | 6.26 | 0.45 | 14.46 | 5.81 | 0.42 | 12.71 | 5.36 | 0.39 | 11.06 | 4.9  | 0.35 | 9.46  |
|    | 14 | 5.84 | 0.36 | 9.88  | 5.39 | 0.33 | 8.6   | 4.94 | 0.31 | 7.42  | 4.48 | 0.28 | 6.28  |
|    | 16 | 5.42 | 0.29 | 6.98  | 4.96 | 0.27 | 6     | 4.5  | 0.24 | 5.07  | 4.04 | 0.22 | 4.22  |
| 60 | 8  | 8.1  | 0.88 | 44.23 | 7.66 | 0.83 | 40.15 | 7.22 | 0.79 | 36.28 | 6.79 | 0.74 | 32.63 |
|    | 10 | 7.71 | 0.67 | 27.74 | 7.27 | 0.63 | 25.03 | 6.83 | 0.59 | 22.44 | 6.39 | 0.56 | 19.98 |
|    | 12 | 7.31 | 0.53 | 18.47 | 6.87 | 0.5  | 16.55 | 6.43 | 0.47 | 14.8  | 5.98 | 0.43 | 13.07 |
|    | 14 | 6.91 | 0.43 | 12.9  | 6.47 | 0.4  | 11.49 | 6.02 | 0.37 | 10.15 | 5.57 | 0.35 | 8.88  |
|    | 16 | 6.51 | 0.35 | 9.31  | 6.06 | 0.33 | 8.23  | 5.6  | 0.3  | 7.2   | 5.15 | 0.28 | 6.24  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-19-W9 |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|-----------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|           |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|           |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]      | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40        | 8    | 5.08                      | 0.55   | 11.09 | 4.46 | 0.48   | 8.86  | 3.83 | 0.41   | 6.79  | 3.2  | 0.35   | 5     |
|           | 10   | 4.47                      | 0.39   | 6.11  | 3.84 | 0.33   | 4.71  | 3.2  | 0.28   | 3.46  | 2.55 | 0.22   | 2.36  |
|           | 12   | 3.84                      | 0.28   | 3.49  | 3.19 | 0.23   | 2.56  | 2.51 | 0.18   | 1.7   | 1.43 | 0.1    | 0.52  |
|           | 14   | 3.14                      | 0.19   | 1.94  | 2.07 | 0.13   | 0.78  | 1.42 | 0.09   | 0.43  | 1.03 | 0.06   | 0.31  |
|           | 16   | 1.88                      | 0.1    | 0.53  | 1.46 | 0.08   | 0.4   | 1.07 | 0.06   | 0.29  | 0.64 | 0.03   | 0.18  |
| 45        | 8    | 6.6                       | 0.71   | 16.93 | 5.99 | 0.65   | 14.29 | 5.37 | 0.58   | 11.85 | 4.76 | 0.51   | 9.6   |
|           | 10   | 6.03                      | 0.52   | 9.91  | 5.41 | 0.47   | 8.22  | 4.79 | 0.42   | 6.7   | 4.16 | 0.36   | 5.27  |
|           | 12   | 5.44                      | 0.39   | 6.13  | 4.81 | 0.35   | 4.97  | 4.17 | 0.3    | 3.91  | 3.53 | 0.26   | 2.96  |
|           | 14   | 4.81                      | 0.3    | 3.86  | 4.17 | 0.26   | 3.03  | 3.52 | 0.22   | 2.28  | 2.85 | 0.18   | 1.6   |
|           | 16   | 4.16                      | 0.23   | 2.44  | 3.49 | 0.19   | 1.82  | 2.63 | 0.14   | 1     | 1.67 | 0.09   | 0.43  |
| 50        | 8    | 8.1                       | 0.88   | 23.71 | 7.49 | 0.81   | 20.69 | 6.88 | 0.74   | 17.76 | 6.27 | 0.68   | 15.13 |
|           | 10   | 7.54                      | 0.65   | 14.3  | 6.93 | 0.6    | 12.35 | 6.32 | 0.55   | 10.52 | 5.7  | 0.49   | 8.82  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |       |      |       |      |      |       |      |      |       |      |      |       |
|----|----|-------|------|-------|------|------|-------|------|------|-------|------|------|-------|
|    | 12 | 6.96  | 0.5  | 9.13  | 6.35 | 0.46 | 7.78  | 5.73 | 0.41 | 6.53  | 5.11 | 0.37 | 5.36  |
|    | 14 | 6.38  | 0.39 | 6.07  | 5.76 | 0.36 | 5.09  | 5.13 | 0.32 | 4.19  | 4.5  | 0.28 | 3.35  |
|    | 16 | 5.78  | 0.31 | 4.11  | 5.15 | 0.28 | 3.39  | 4.51 | 0.24 | 2.71  | 3.88 | 0.21 | 2.09  |
| 55 | 8  | 9.56  | 1.04 | 31.06 | 8.96 | 0.97 | 27.71 | 8.36 | 0.91 | 24.53 | 7.76 | 0.85 | 21.64 |
|    | 10 | 9.02  | 0.78 | 19.09 | 8.41 | 0.73 | 16.91 | 7.8  | 0.68 | 14.85 | 7.2  | 0.63 | 12.91 |
|    | 12 | 8.46  | 0.61 | 12.57 | 7.85 | 0.57 | 11.05 | 7.24 | 0.52 | 9.57  | 6.63 | 0.48 | 8.22  |
|    | 14 | 7.89  | 0.49 | 8.58  | 7.29 | 0.45 | 7.49  | 6.67 | 0.41 | 6.44  | 6.06 | 0.38 | 5.45  |
|    | 16 | 7.33  | 0.4  | 6.04  | 6.71 | 0.36 | 5.19  | 6.08 | 0.33 | 4.38  | 5.45 | 0.3  | 3.65  |
| 60 | 8  | 11    | 1.2  | 38.89 | 10.4 | 1.13 | 35.26 | 9.81 | 1.07 | 31.88 | 9.21 | 1    | 28.42 |
|    | 10 | 10.47 | 0.91 | 24.3  | 9.87 | 0.86 | 21.92 | 9.27 | 0.81 | 19.64 | 8.67 | 0.76 | 17.49 |
|    | 12 | 9.93  | 0.72 | 16.15 | 9.33 | 0.68 | 14.54 | 8.72 | 0.63 | 12.94 | 8.13 | 0.59 | 11.43 |
|    | 14 | 9.38  | 0.58 | 11.26 | 8.77 | 0.54 | 10.03 | 8.17 | 0.51 | 8.87  | 7.56 | 0.47 | 7.76  |
|    | 16 | 8.83  | 0.48 | 8.12  | 8.22 | 0.45 | 7.18  | 7.61 | 0.41 | 6.28  | 6.99 | 0.38 | 5.44  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

| MUC-24-W9 |      |                           |        |       |      |        |       |      |        |       |      |        |       |
|-----------|------|---------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|
| EWT       | ΔT   | Indoor temperature (D.B.) |        |       |      |        |       |      |        |       |      |        |       |
|           |      | 16                        |        |       | 18   |        |       | 20   |        |       | 22   |        |       |
|           |      | TH                        | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   | TH   | WF     | WPD   |
| [°C]      | [°C] | [kW]                      | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] | [kW] | [m³/h] | [kPa] |
| 40        | 8    | 6.49                      | 0.7    | 8.42  | 5.68 | 0.61   | 6.68  | 4.88 | 0.53   | 5.16  | 4.08 | 0.44   | 3.8   |
|           | 10   | 5.71                      | 0.49   | 4.65  | 4.9  | 0.42   | 3.59  | 4.08 | 0.35   | 2.64  | 3.25 | 0.28   | 1.81  |
|           | 12   | 4.9                       | 0.35   | 2.68  | 4.07 | 0.29   | 1.96  | 3.12 | 0.22   | 1.12  | 2.07 | 0.15   | 0.5   |
|           | 14   | 3.95                      | 0.24   | 1.33  | 2.8  | 0.17   | 0.64  | 2.09 | 0.13   | 0.43  | 1.49 | 0.09   | 0.3   |
|           | 16   | 2.75                      | 0.15   | 0.52  | 2.14 | 0.12   | 0.39  | 1.53 | 0.08   | 0.28  | 0.86 | 0.05   | 0.16  |
| 45        | 8    | 8.4                       | 0.91   | 12.76 | 7.62 | 0.82   | 10.77 | 6.83 | 0.74   | 8.93  | 6.05 | 0.65   | 7.23  |
|           | 10   | 7.66                      | 0.66   | 7.48  | 6.88 | 0.6    | 6.23  | 6.08 | 0.53   | 5.05  | 5.28 | 0.46   | 3.96  |
|           | 12   | 6.9                       | 0.5    | 4.64  | 6.1  | 0.44   | 3.76  | 5.29 | 0.38   | 2.96  | 4.48 | 0.32   | 2.24  |
|           | 14   | 6.11                      | 0.38   | 2.93  | 5.29 | 0.33   | 2.3   | 4.46 | 0.28   | 1.73  | 3.55 | 0.22   | 1.09  |
|           | 16   | 5.3                       | 0.29   | 1.86  | 4.4  | 0.24   | 1.29  | 3.28 | 0.18   | 0.67  | 2.44 | 0.13   | 0.41  |
| 50        | 8    | 10.28                     | 1.11   | 17.66 | 9.51 | 1.03   | 15.41 | 8.73 | 0.95   | 13.31 | 7.95 | 0.86   | 11.33 |
|           | 10   | 9.56                      | 0.83   | 10.71 | 8.78 | 0.76   | 9.25  | 8    | 0.69   | 7.88  | 7.22 | 0.63   | 6.61  |

# Universal Fancoil DC

# MUC-W9 series

|    |    |       |      |       |       |      |       |       |      |       |       |      |       |
|----|----|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
|    | 12 | 8.83  | 0.64 | 6.85  | 8.04  | 0.58 | 5.84  | 7.26  | 0.52 | 4.9   | 6.47  | 0.47 | 4.03  |
|    | 14 | 8.09  | 0.5  | 4.57  | 7.29  | 0.45 | 3.83  | 6.49  | 0.4  | 3.15  | 5.69  | 0.35 | 2.52  |
|    | 16 | 7.31  | 0.4  | 3.11  | 6.51  | 0.35 | 2.56  | 5.71  | 0.31 | 2.04  | 4.87  | 0.26 | 1.58  |
| 55 | 8  | 12.1  | 1.31 | 23.09 | 11.34 | 1.24 | 20.72 | 10.58 | 1.15 | 18.35 | 9.81  | 1.07 | 16.11 |
|    | 10 | 11.41 | 0.99 | 14.22 | 10.64 | 0.92 | 12.6  | 9.87  | 0.86 | 11.07 | 9.11  | 0.79 | 9.66  |
|    | 12 | 10.7  | 0.77 | 9.34  | 9.93  | 0.72 | 8.21  | 9.15  | 0.66 | 7.14  | 8.37  | 0.61 | 6.13  |
|    | 14 | 9.99  | 0.62 | 6.43  | 9.21  | 0.57 | 5.59  | 8.43  | 0.52 | 4.8   | 7.65  | 0.47 | 4.07  |
|    | 16 | 9.24  | 0.5  | 4.5   | 8.46  | 0.46 | 3.87  | 7.67  | 0.42 | 3.28  | 6.88  | 0.37 | 2.72  |
| 60 | 8  | 13.89 | 1.51 | 28.78 | 13.13 | 1.43 | 26.03 | 12.38 | 1.34 | 23.48 | 11.63 | 1.26 | 21.05 |
|    | 10 | 13.21 | 1.15 | 17.99 | 12.45 | 1.08 | 16.23 | 11.7  | 1.02 | 14.55 | 10.94 | 0.95 | 12.9  |
|    | 12 | 12.53 | 0.91 | 12.01 | 11.77 | 0.85 | 10.77 | 11    | 0.8  | 9.6   | 10.24 | 0.74 | 8.48  |
|    | 14 | 11.83 | 0.73 | 8.36  | 11.06 | 0.69 | 7.45  | 10.29 | 0.64 | 6.58  | 9.52  | 0.59 | 5.76  |
|    | 16 | 11.12 | 0.6  | 6.03  | 10.35 | 0.56 | 5.33  | 9.57  | 0.52 | 4.67  | 8.8   | 0.48 | 4.04  |

## Abbreviations:

**Δt:** Temperature Difference (°C)    **TH:** Total Heating Capacity (kW)    **WF:** Water Flow (m³/h)    **WPD:** Water Pressure Drop (kPa)

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