

MUNDOCLIMA®



A world of comfort



Air Conditioning 2017

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All MUNDOCLIMA equipment has a 2-year warranty on parts and labor, provided that the fault arises from a manufacturing defect and is not attributable to the installation. To make use of the guarantee, the user must keep the purchase invoice and contact MUNDOCLIMA HELPDESK to follow the instructions that will be detailed for the correct resolution of the incident.

The information detailed in this Catalog (product photos, dimensions, performance, features, etc.) are subject to change without prior notice, in order to introduce technical improvements or innovations.

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Company Profile

MUNDOCLIMA is a registered trademark of Salvador Escoda S.A., leader in the Spanish market for the distribution of products for air conditioning, ventilation, heating, cooling and insulation installations. MUNDOCLIMA encompasses an extensive range of products for air conditioning, whose main objective is to provide the customer with added value, not only limited to air conditioning, but also to generate a state of comfort through the intelligent treatment of air.

All MUNDOCLIMA products are developed from the premises of sustainable development and respect for the environment. These lines of development give rise to products of low energy consumption, high efficiency and low sound level that are perfectly adapted to the needs of our customers.

All these advantages place MUNDOCLIMA among the brands that best balance the commitment between price and quality. MUNDOCLIMA also counts on an ample human team whose main function is the previous advice to the development of projects, as well as an effective and fast After Sales service that solves any need of our clients.



¿Why MUNDOCLIMA?



Because we have the **best value for money on the market.**

We do not have to pay for expensive television commercials, billboards or newspapers advertising, and our customers benefit directly from this.



Because we offer the best **Post-Sale Technical Support of the national territory with full coverage**, without 902 phones numbers type that charge when you have a problem.



Because for us the most important thing is the **satisfaction of our client** and we do everything possible to ensure it.



Because we have been **air conditioning homes in Spain and the rest of Europe for 40 years** and we want to continue to do so in the future.



Because we are environmentally friendly and we want to help for **the protection of the ozone layer.** For that reason we only use **environmentally friendly refrigerants** and equipment with a **high energy efficiency.**



And above all this.....because we are from here. We are a **team** of more than **500 professionals** who understand your needs and are prepared to provide you with the supplies and advice your company needs.

Energy Saving

ENERGY EFFICIENCY

The MUNDOCLIMA equipment complies with the ERP directive on “Ecodesign”, they have the new energy labeling, which establishes minimum values of energy efficiency for both cooling mode and heating mode.

CLASS A++
SEER (MUPR Series)



SEER

SEER ≥ 8.50
6.10 ≤ SEER < 8.50
5.60 ≤ SEER < 6.10
5.10 ≤ SEER < 5.60
4.60 ≤ SEER < 5.10
4.10 ≤ SEER < 4.60
3.60 ≤ SEER < 4.10

SCOP

SCOP ≥ 5.10
4.60 ≤ SCOP < 5.10
4.00 ≤ SCOP < 4.60
3.40 ≤ SCOP < 4.00
3.10 ≤ SCOP < 3.40
2.80 ≤ SCOP < 3.10
2.50 ≤ SCOP < 2.80

ENERGY EFFICIENCY CLASS

The label distinguishes between climatic zones, offering the consumer more detailed data, which allows the user to know better the performances according to the climatic zone where he/she is.

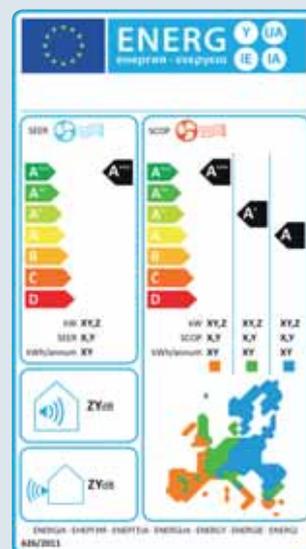
CLIMATIC ZONES: Three climatic zones are shown, as can be seen on the map.

- Intermediate (mandatory) → annual temperature of Strasbourg.
- Warm → annual temperature of Athens.
- Cold → annual temperature of Helsinki.

SEER and SCOP: Performance values indicating Seasonal Efficiency in Cooling (SEER) and Heating (SCOP) calculated by hours of annual use in different climatic zones.

ENERGY CLASS: In cooling and heating, the energy labels show a scale reaching values of A+++.

SOUND LEVELS: The sound power level of the indoor and outdoor units.



Absolute Silence



* Silent mode sound pressure MUPR-09-H6

Mas Falet Hotel (San Antoni de Calonge)
Maxi MVD 450 kW Cooling power



Shopping Center MAREMAGNUM (Barcelona)
Maxi MVD 450 kW Cooling power



64 Offices Diagonal (Barcelona)
Extra Flat Inverter Duct Units



Car Dealership (Sant Boi de Llobregat)
Maxi MVD 130 kW with high pressure duct DC



Graus 4 Star Hotel (Huesca)

Water Chiller and Fan coil uts. 80kW cooling power.



Ecoparc del Mediterrani

Air handling unit with recovery



Monzon Catering Hall (Huesca)

Maxi MVD 105 kW Cooling power



Cal Repissa Town Hall (Olesa de Montserrat)

Maxi MVD 45kW Cooling power



Comfort



WEEKLY TIMER
Sets the weekly operation of the unit.



FOLLOW ME FUNCTION (IFEEL)
The remote control incorporates an ambient temperature sensor.



AUTOMATIC RESTART
Recovery of the adjustments before the electrical cut.



EMERGENCY OPERATION
Possibility of unit operation with the manual button in case of activation of some alarms.



COLD AIR PROTECTION
In heating, the initial fan speed is adjusted in accordance with the coil temperature.



TURBO OPERATION
Maximum cooling/heating time reduction.



LOW SOUND LEVEL
Thanks to the Silence mode and its new design, the sound level is reduced to the minimum.



TEMPERATURE COMPENSATION
The RG57 remote control allows you to set the compensation temperature for heating and cooling mode.



QUIETER OUTDOOR UNIT
Optimized design of air outlet grille with noise reduction of 3.3dB (A) compared to previous models.



WIDE WORKING TEMPERATURE RANGE
Cooling operation until 50 °C and in heating up to -15 °C.



NIGHT MODE
This function automatically increases or drops indoor temperature by 1 °C per hour during the first 2 h, and then keeps constant temp. for the next 5 h before turning off. This function is energy-saving and provides night comfort.



DAILY TIMER
The timer can be set to start and stop at any point in a 24-hour period.



DESIGN 360°
Thanks to the 360° panel design, the air is more evenly distributed.



HORIZONTAL AND VERTICAL BLADE SWING
Better air distribution thanks to the automatic blade swing, horizontal and vertical.



VENTILATION FUNCTION
It allows operation with only ventilation.



THERMOSTAT
It keeps automatically the set temperature.



DEHUMIDIFICATION
Moisture reduction restoring an optimum temperature in wet areas.



MULTI-SPEED INDOOR FAN
Up to 12 levels of fan speed automatically adjusted if the automatic ventilation is activated.

Connectivity



WIFI
Possibility that the unit is controlled via WIFI, through its own module and mobile app.



CENTRALIZED CONTROLLER CCM
Possibility to control several units from only one remote control. The remote control can directly control up to 64 units of different systems.

Energy efficiency



ENERGY LABELLING FOR COOLING A+++



ENERGY LABELLING FOR COOLING A



ENERGY LABELLING FOR COOLING A+



ENERGY LABELLING FOR COOLING A



STANDBY FUNCTION (ONLY 1W IN STANDBY)
The outdoor unit is automatically disconnected from the supply when the unit is in standby, in that way the consumption in standby modus is only 1W.

Refrigerant



R410A
Unit that uses R410A refrigerant.



R32
Unit that uses more environmentally friendly refrigerant: R32.

Easy installation and maintenance



OUTSIDE AIR INLET
Possibility of supplying outdoor air directly on the indoor unit.



DRAINAGE PUMP
It incorporates drainage pump to facilitate the drainage of the indoor unit.



REMINDER CLEANING FILTER
The equipment tells us when to clean and / or replace the air filter of the indoor unit.



PIPE COMPATIBILITY
Possibility of increasing a size over the standard diameter in the gas pipe.



DIGITAL DISPLAY LED
Equipment with a digital display showing the setpoint temperature during normal operation or the ambient temperature in ventilation mode.



LESS SCREWS
Not only the indoor unit but also the outdoor unit have less screws, so the disassembly is going to be easier.



REFRIGERANT LEAK DETECTION
The unit automatically detects the existence of possible leaks of refrigerant in the circuit.



SET TEMPERATURES RANGE ADJUSTMENT
The new remote control is able to adjust: Minimum cooling from 17 °C up to 24 °C; Maximum heating from 30 °C up to 25 °C.



FEET IN U FORM
Thanks to the new back feet in the outdoor unit, installation is easier.



LOW VOLTAGE START
The equipment can start and run normally up to a supply voltage of 165 V.



PROBLEM SOLVING
Error codes are showed in the indoor panel, wall control and outdoor PCB.



REMOTE SIGNS (CP)
The indoor unit has an ON/OFF input.



CONFIGURABLE STATIC PRESSURE
The static pressure of the fan can be adjusted using the PCB or the wireless control RG57. In this way, the machine can be adapted to each installation.



CONFIGURABLE RETURN
The air intake can be set up either at the rear or at the bottom of the unit. By default, it is set up at the rear.



TWIN FUNCTION (2 X 1)
Two indoor units can be connected to the same outdoor unit. Both indoor units will function identically as if they were one single unit. It is perfect for open rooms.



AUTO ADDRESSING
The outdoor unit can assign address to the indoor units automatically.



ADJUSTMENT
Function adjustment and query of operating parameters using the RG57 wireless control.



EXTRA FLAT DUCT
Height of the indoor unit of only 210 mm.



DELIVERY OUTLET TO ADJACENT ROOM
The unit has pre-cut outlets for connecting a small duct and air-conditioning the next room.



AIR DISCHARGE TUBE TO THE OUTSIDE
Easy and quick to install, it allows the use of the air conditioner immediately.



CONDENSATE REMOVAL
Removes condensate water so it is not necessary to connect the air conditioner to a drain. In dehumidification mode and in very humid environments, it is recommended to connect the equipment to a drain.



PANEL OF COMPACT SIZE
The trim panel of the cassette type unit measures 600x600 mm.

Technology



SUPER DC
Equipment that has both, DC Inverter compressor and DC fan motors.



COOLING UNDER LOW TEMPERATURES
Operation in cooling up to -15 °C outdoor temperature.



DC
Unit with DC fan motor, low noise and low-energy consumption.



OPERATION TO 50/60 HZ
Possibility to connect the equipment to 50 or 60 Hz.



SCROLL
Asymmetric scroll compressor of high efficiency.



DIFFERENT SPEEDS OF THE EXTERNAL FAN
Accurate adjustment of fan speed thanks to DC fan.



RG57A6/BGE

RG57 Model

MULTIPLE CONFIGURATIONS

The remote control RG57 allows to adjust different functions of the equipment.

Set the parameters as desired:

Function	Adjustment
Auto-restart function	Active/Inactive
Operation Compensation	Adjust the value from 0 °C to 6 °C
Fan speed setting	Adjust fan speed as desired
SET TEMPERATURES RANGE ADJUSTMENT	Minimum cooling from 17 °C up to 24 °C Maximum heating from 30 °C up to 25 °C

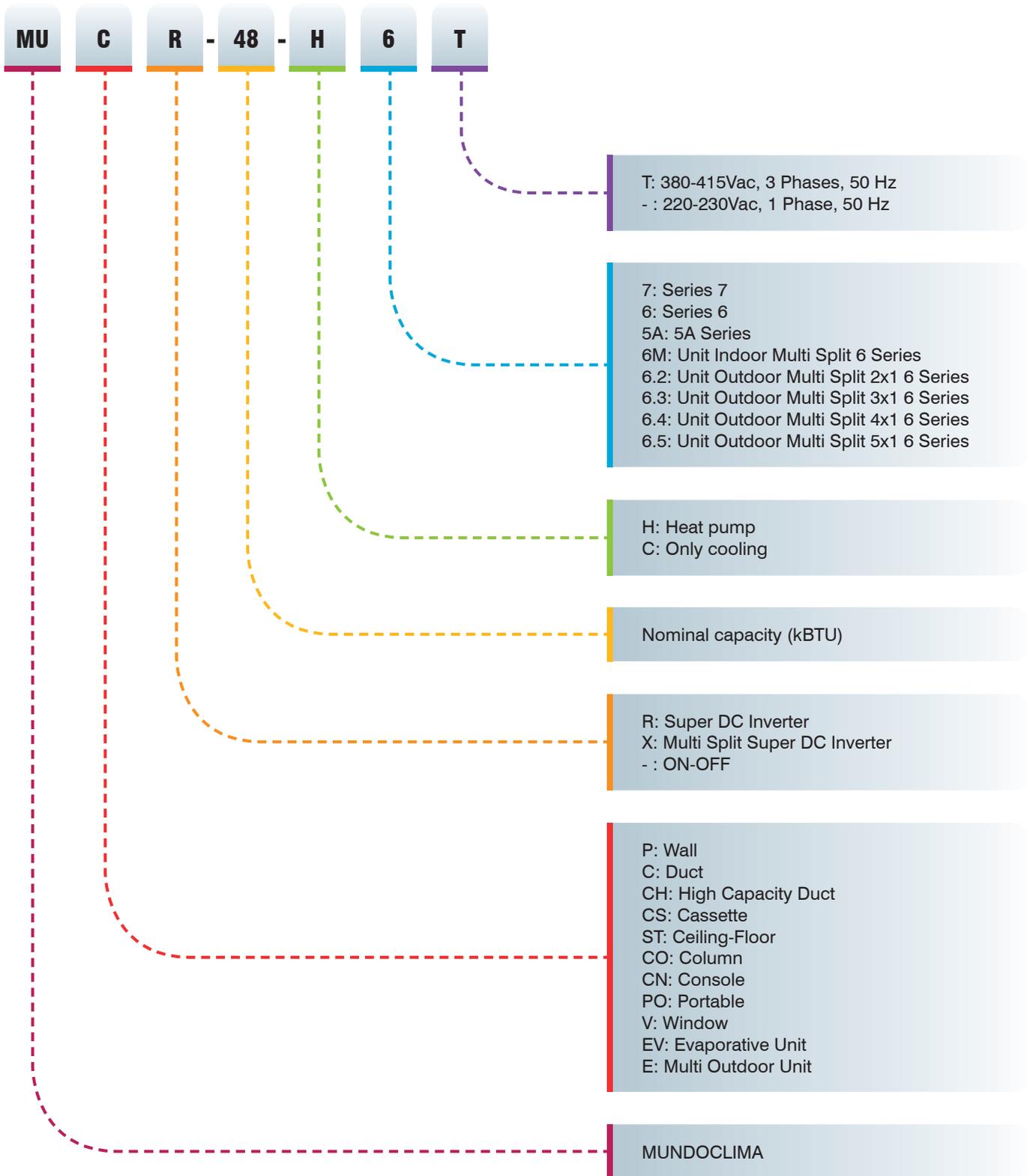
SAVE TIME IN MAINTENANCE

The new remote control also allows you to check operating parameters.

Check the operating frequency or temperature of all sensors of the equipment easily.

Note: Only for domestic range H6, H6M and H7, and commercial H6 (except high capacity duct and column units).

Names



Range of Products

Type	Model	Capacity (x1000 BTU)										
		7	9	12	18	24	30	36	42	48	60	96
DOMESTIC RANGE												
Wall Split		MUPR-H7		■	■	■	■					
		MUPR-H6		■	■	■	■					
		MUPR-H5A		■	■	■	■					
Multi Wall Split		MUPR-H6M		■	■	■	■					
Cassette Multi		MUCSR-H6M			■	■						
Multi Duct Unit		MUCR-H6M			■	■						
Window		MUVR-C6		■	■							
Portable		MUPO-C6	■									
		MUPO-H6		■	■							
Without outdoor unit		MU-WZ32			■							

Type	Model	Capacity (x1000 BTU)											
		7	9	12	18	24	30	36	42	48	60	96	
COMMERCIAL RANGE													
Cassette		MUCSR-H6			■	■	■	■	■	■	■	■	
Ceiling-Floor		MUSTR-H6				■	■	■	■	■	■	■	
Duct		MUCR-H6			■	■	■	■	■	■	■	■	
		MUCHR-H7											■
		MUCHR-H6	(20, 22, 26, 40, 45, 56 kW)										
Floor Standing		MUCO-H6										■	■





DOMESTIC RANGE

WALL MOUNTED AIR CONTIDIONERS SUPER INVERTER

MUNDOCLIMA wall-mounted air conditioners bring together performance and design. They offer the best technical market levels, combined with a unique and modern design. Designed for a maximum energy saving, Inverter equipments are environmentally friendly, they are manufactured based in two premises: Ecological and sustainable

MULTI SPLIT SUPER INVERTER

MULTI SPLIT Systems allow us to optimize outer space, including a less visual impact that will satisfy the most demanding users. Equipped with dual compressor, it minimizes the space used and maximizes performances.

Multiple combinations are possible with this system. It is a free system for all combinations allowing to adapt it entirely to our needs. The user thus becomes the creator of the installation.

PORTABLE UNIT

Anytime & Anywhere! To be used when and where we want. There are no limits to this product. From dining room to bedroom, enjoy this product anywhere at home.



1x1 INVERTER WALL SPLIT MUPR-H7 Series

NEW

Save time for installation



RG57A6/BGE
Included
(CL 94 588)



Gas R32
More Ecological

SEER A++



EASILY DISMANTELED

Easy access to PCB, detachable fan, movable housing.
Save 30 % of servicing time.



MORE SPACE FOR INSTALLATION

New bracket, fastener feet, simpler electrical connection.
Save 20% of installation time.



MORE ACCESSIBLE FILTERS

Without the need to open the panel, it avoids the dirt to fall down.
Save 5% of cleaning time.



WIDE RANGE OF CONNECTIVITY

Possibility of connecting different control devices, among them also a WIFI module.
Check your new Mundoclimate air conditioner from anywhere you are.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wired remote control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/TF-E⁽¹⁾
(CL 94 384)

Centralized controller



CCM30/BKE⁽¹⁾
(CL 92 871)



CCM15⁽¹⁾
(CL 92 872)

Integral control



IMM4⁽¹⁾
(CL 97 160-163)

BACnet



CCM08/E⁽¹⁾
(CL 92 915)

LonWorks



LONGW64/E⁽¹⁾
(CL 92 877)

Modbus



CCM18A/N⁽¹⁾
(CL 94 791)

Modbus



MD-AC-MBS-1⁽¹⁾
(CL 99 097)

KNX



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)

KNX



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



MUNDUCLIMA
OSK102 (CL 94 382)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)



Multifunction Module
(CL 94 383)



KJR-150A/M-E⁽¹⁾
(CL 97 156)



JC-02
(CL 94 724)

Accessories

⁽¹⁾Multifunction module needed
(CL 94 383).

MUPR-H7 Series

SPECIFICATIONS:

MODEL			MUPR-09-H7	MUPR-12-H7	MUPR-18-H7	MUPR-24-H7
Code			CL 20 035	CL 20 036	CL 20 037	CL 20 038
Cooling	Rated capacity (min. ~ max.)		kW 2.63 (1.20 – 3.42)	3.51 (1.40 – 4.57)	5.27 (1.96 – 6.21)	7.32 (3.04 – 8.44)
	Rated consumption (min. - max.)		kW 0.77 (0.10 – 1.32)	1.25 (0.11 – 1.74)	1.50 (0.15 – 2.22)	2.26 (0.23 – 3.01)
	Pdesignc		kW 2.6	3.5	5.3	7.3
	SEER		W/W 6.8	6.5	7.1	6.9
	Energy labeling		A++	A++	A++	A++
Heating	Rated capacity (min. ~ max.)		kW 2.93 (0.82 – 3.86)	4.10 (0.87 – 5.12)	5.56 (1.28 – 6.97)	7.61 (2.08 – 9.43)
	Rated consumption (min. - max.)		kW 0.78 (0.14 – 1.38)	1.17 (0.15 – 1.83)	1.39 (0.22 – 2.33)	2.11 (0.33 – 3.15)
	Intermediate climate zone	Pdesignh	kW 2.4	2.5	4.2	5.6
		SCOP	W/W 4.0	4.0	4.0	4.0
		Energy labeling	A+	A+	A+	A+
	Warm climate zone	Tbiv	°C -7	-7	-6	-7
		Pdesignh	kW 3.0	3.2	4.5	7.0
		SCOP	W/W 5.1	5.2	5.1	5.1
		Energy labeling	A+++	A+++	A+++	A+++
	Tbiv	°C 2	2	2	2	
Tol (Limited operating temperature)			°C -15	-15	-15	-15
Power supply			V-Hz-Ph 220-240V~ 50Hz, 1Ph			
Max. consumption			kW 2.075	2.2	2.55	3.6
Max. current			A 9.5	10	11.5	16
Indoor unit	Air flow rate (High / Medium / Low)		m³/h 486 / 433 / 329	550 / 490 / 360	810 / 720 / 550	1050 / 970 / 650
	Sound pressure (High / Medium/ Low/ Silence)		dB(A) 41 / 34 / 29 / 22	41 / 37 / 30 / 23	45 / 41 / 33 / 24	46 / 44 / 35 / 27
	Sound power (High)		dB(A) 53	54	57	59
	Dimensions (W x H x D)		mm 717 x 302 x 193	805 x 302 x 193	964 x 325 x 222	1106 x 342 x 232
	Weight		kg 7.5	8.2	10.8	14.3
Outdoor Unit	Air flow rate (max.)		m³/h 2000	2000	2100	2700
	Sound pressure (High)		dB(A) 55	55	57	59
	Sound power (High)		dB(A) 58	60	60	65
	Dimensions (W x H x D)		mm 770 x 555 x 300	770 x 555 x 300	800 x 554 x 333	845 x 702 x 363
	Weight		kg 26.4	26.5	37	48
Refrigerant	Type		R32	R32	R32	R32
	Load		kg 0.7	0.8	1.25	1.6
	Preload until		m 5	5	5	5
	Additional load (from 5 m)		g/m 12	12	12	24
Connection pipes	Liquid		mm (inches) Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")
	Gas		mm (inches) Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø15.9 (5/8")
	Max. Length		m 25	25	30	50
	Max. Drop Height		m 10	10	20	25
Electrical power wiring	Supply (outdoor unit)		mm² 2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T
	Interconnection		mm² 4 x 2.5 + T	4 x 2.5 + T	4 x 2.5 + T	4 x 4 + T
Wireless remote control			RG57	RG57	RG57	RG57
Operation temperature	Indoor (Cooling / Heating)		°C 17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30	17 ~ 32/0 ~ 30
	Outdoor (Cooling / Heating)		°C -15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30

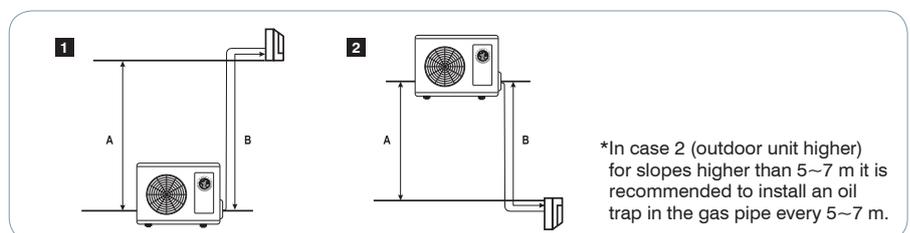
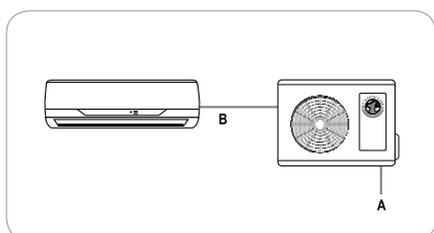
Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.

ELECTRICAL INSTALLATION

Model	Electrical wiring (A)	Interconnection wiring (B)
MUPR-09-H7	2x2.5+T	4x2.5+T
MUPR-12-H7	2x2.5+T	4x2.5+T
MUPR-18-H7	2x2.5+T	4x2.5+T
MUPR-24-H7	2x4+T	4x4+T

REFRIGERATING INSTALLATION

Model	Pipe		Max. Length (B)	Max. slope (A)	Preload until (m)	Additional charge (g/m)
	Liquid	Gas				
MUPR-09-H7	1/4"	3/8"	25	10	5	12
MUPR-12-H7	1/4"	3/8"	25	10	5	12
MUPR-18-H7	1/4"	1/2"	30	20	5	12
MUPR-24-H7	3/8"	5/8"	50	25	5	24





1x1 INVERTER WALL SPLIT MUPR-H6 Series

Save time for installation



EASILY DISMANTELED

Easy access to PCB, detachable fan, movable housing.
Save 30 % of servicing time.



MORE SPACE FOR INSTALLATION

New bracket, fastener feet, simpler electrical connection.
Save 20% of installation time.



MORE ACCESSIBLE FILTERS

Without the need to open the panel, it avoids the dirt to fall down.
Save 5% of cleaning time.



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Wired remote control

Centralized controller

Integral control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/TF-E⁽¹⁾
(CL 94 384)



CCM30/BKE⁽¹⁾
(CL 92 871)



CCM15⁽¹⁾
(CL 92 872)



IMM4⁽¹⁾
(CL 97 160-163)



CCM08/E⁽¹⁾
(CL 92 915)



LONGW64/E⁽¹⁾
(CL 92 877)



CCM18A/N⁽¹⁾
(CL 94 791)



MD-AC-MBS-1⁽¹⁾
(CL 99 097)



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI

Accessories



MUNDOKLIMA
OSK102 (CL 94 382)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)



Multifunction Module
(CL 94 383)



KJR-150A/M-E⁽¹⁾
(CL 97 156)



JC-02
(CL 94 724)

⁽¹⁾Multifunction module needed
(CL 94 383).

MUPR-H6 Series

SPECIFICATIONS:

MODEL			MUPR-09-H6	MUPR-12-H6	MUPR-18-H6	MUPR-24-H6	
Code			CL 20 015	CL 20 016	CL 20 017	CL 20 018	
Cooling	Nominal capacity (min. - max.)		kW 2.63 (1.17~3.31)	3.51 (1.26~4.45)	5.27 (1.90~6.12)	7.03 (2.66~7.88)	
	Nominal consumption (min. - max.)		kW 0.82 (0.10~1.27)	1.15 (0.11~1.72)	1.63 (0.15~2.35)	2.30 (0.23~3.03)	
	Pd esignc (design load)		kW 2.6	3.5	5.3	7.0	
	SEER		W/W 6.8	6.7	6.8	6.4	
	Energy labeling		A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)		kW 2.93 (0.82~3.72)	3.81 (1.06~4.86)	5.56 (1.42~6.74)	7.62 (2.08~9.14)	
	Nominal consumption (min. - max.)		kW 0.81 (0.14~1.33)	1.05 (0.17~1.74)	1.50 (0.23~2.40)	2.30 (0.31~3.27)	
	Intermediate climate zone	Pdesignh		kW 2.4	2.6	4.4	5.6
		SCOP		W/W 4.1	4.2	4.2	4.0
		Labeling		A+	A+	A+	A+
		Tbiv		°C -7	-7	-6	-7
	Warm climate zone	Pdesignh		kW 3.0	3.0	4.7	7.2
		SCOP		W/W 5.1	5.2	5.4	5.2
		Energy labeling		A+++	A+++	A+++	A+++
		Tbiv		°C 2	2	5	4
Tol			°C -15	-15	-15	-15	
Power supply			V-Hz-Ph 230-50-1Ph	230-50-1Ph	230-50-1Ph	230-50-1Ph	
Max. consumption			kW 2.075	2.2	2.55	3.7	
Max. current			A 9.5	10	11.5	17	
Indoor unit	Air flow rate (High / Medium / Low)		m³/h 472 / 360 / 254	562 / 497 / 224	870 / 730 / 500	1176 / 921 / 446	
	Sound pressure (High / Medium/ Low/ Silence)		dB(A) 40 / 35 / 28 / 20	41 / 40 / 33 / 22	45 / 43 / 34 / 24	47 / 45 / 35 / 28	
	Sound power (High)		dB(A) 53	52	58	60	
	Dimensions (W x H x D)		mm 717 x 302 x 193	805 x 302 x 193	964 x 325 x 222	1106 x 342 x 232	
	Weight		kg 7.0	7.7	10.1	13.2	
Outdoor unit	Air flow rate (max.)		m³/h 1900	2000	2100	2700	
	Sound pressure (High)		dB(A) 55	56	58	61	
	Sound power (High)		dB(A) 58	59	63	65	
	Dimensions (W x H x D)		mm 770 x 555 x 300	800 x 554 x 333	800 x 554 x 333	845 x 702 x 363	
	Weight		kg 26.6	29.1	37.8	48.4	
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Load		kg 0.8	0.95	1.48	2	
	Preload until		m 5	5	5	5	
	Additional load (from 5 m)		g/m 15	15	15	30	
	Connection pipes	Liquid		mm (inches) Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")
Gas		mm (inches) Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø15.9 (5/8")		
Max. Length		m 25	25	30	50		
Max. Drop Height		m 10	10	20	25		
Electrical wiring	Supply (outdoor unit)		mm² 2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	
	Interconnection		mm² 4 x 2.5 + T	4 x 2.5 + T	4 x 2.5 + T	4 x 4 + T	
Remote control			RG57	RG57	RG57	RG57	
Operation temp.	Indoor (Cooling / Heating)		°C 17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	
	Outdoor (Cooling / Heating)		°C -15~50 / -15~30	-15~50 / -15~30	-15~50 / -15~30	-15~50 / -15~30	

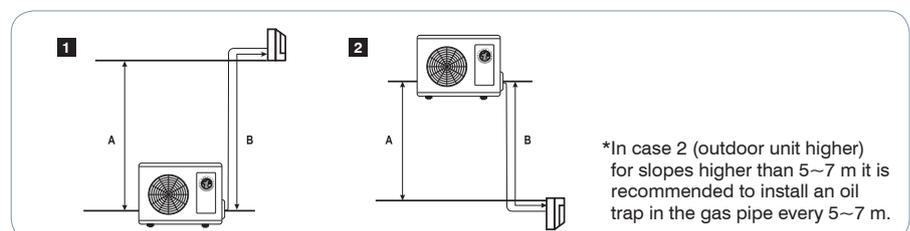
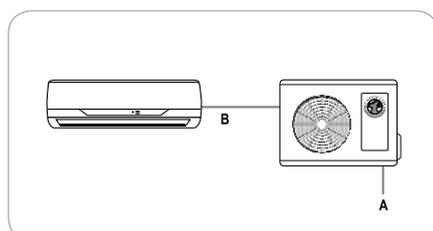
Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.

ELECTRICAL INSTALLATION

Model	Electrical wiring (A)	Interconnection wiring (B)
MUPR-09-H6	2x2.5+T	4x2.5+T
MUPR-12-H6	2x2.5+T	4x2.5+T
MUPR-18-H6	2x2.5+T	4x2.5+T
MUPR-24-H6	2x4+T	4x4+T

REFRIGERATING INSTALLATION

Model	Pipe		Max. Length (B)	Max. slope (A)	Preload until (m)	Additional charge (g/m)
	Liquid	Gas				
MUPR-09-H6	1/4"	3/8"	25	10	5	15
MUPR-12-H6	1/4"	3/8"	25	10	5	15
MUPR-18-H6	1/4"	1/2"	30	20	5	15
MUPR-24-H6	3/8"	5/8"	50	25	5	30





1x1 INVERTER WALL SPLIT MUPR-H5A Series

**SCOP
A+**

**SEER
A++**

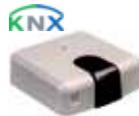


YKR-H/002E
Included
(CL 93 165)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"



IS-IR-KNX-1i
(CL 99 096)

BMS



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

WIFI



MUPR-H5A Series

SPECIFICATIONS:

Model			MUPR-09-H5A	MUPR-12-H5A	MUPR-18-H5A	MUPR-24-H5A*	
Code			CL 20 025	CL 20 026	CL 20 027	CL 20 028	
Cooling	Rated capacity (min. ~ max.)	kW	2.5 (1.0 – 2.8)	3.5 (1.1 – 3.7)	5.1 (1.3 – 5.4)	7.1 (2.0 – 7.6)	
	Rated consumption (min. - max.)	kW	0.78 (0.085 - 1.0)	1.093 (0.086 - 1.6)	1.58 (0.2 - 2.0)	2.20 (0.3 - 2.9)	
	Pdesignc	kW	2.5	3.5	5.1	6.8	
	SEER	W/W	6.30	6.43	6.18	6.33	
	Energy labeling		A++	A++	A++	A++	
Heating	Rated capacity (min. ~ max.)	kW	2.6 (0.69 – 2.9)	3.5 (1.1 – 3.8)	5.3 (1.4 – 6.1)	7.3 (2.5 – 8.0)	
	Rated consumption (min. - max.)	kW	0.72 (0.11 – 1.4)	0.97 (0.188 – 1.6)	1.47 (0.35 – 2.2)	2.02 (0.35 – 3.0)	
	Intermediate climate zone	Pdesignh	kW	2.4	3.5	4.7	5.6
		SCOP	W/W	4.10	4.07	4.08	4.10
	Energy labeling		A+	A+	A+	A+	
Tbiv	°C	2	2	2	2		
Tol (Limited operating temperature)		°C	-10	-10	-10	-10	
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph				
Max. consumption		kW	1.5	1.9	2.8	3.2	
Max. current		A	8	9.5	11	16	
Indoor Unit	Air flow rate (Turbo / High / Medium / Low)	m³/h	550/500/450/405	550/500/450/405	900/818/740/666	1250/1090/990/890	
	Sound pressure (Turbo / High / Medium / Low)	dB(A)	42 / 37 / 33 / 27	42 / 37 / 33 / 27	48 / 43 / 38 / 32	50 / 45 / 40 / 34	
	Sound power (High)	dB(A)	51	53	56	64	
	Dimensions (W x H x D)	mm	750 x 285 x 200	750 x 285 x 200	900 x 311 x 225	1082 x 330 x 233	
	Weight	kg	8	8.5	12	16	
Outdoor Unit	Air flow rate (max.)	m³/h	2000	2000	2150	3000	
	Sound pressure (High)	dB(A)	52	52	59	55	
	Sound power (High)	dB(A)	57	60	63	66	
	Dimensions (W x H x D)	mm	730 x 545 x 285	730 x 545 x 285	800 x 545 x 315	900 x 700 x 350	
	Weight	kg	27	27	35	50	
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Load	kg	0.78	0.78	1.4	1.6	
	Preload until	m	5	5	5	5	
	Additional load (from 5 m)	g/m	20	25	30	40	
Connection pipes	Liquid	mm (inches)	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")	
	Gas	mm (inches)	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø15.9 (5/8")	
	Max. Length	m	20	20	25	25	
	Max. Drop Height	m	10	10	15	15	
Electrical wiring	Supply (indoor unit)	mm²	2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	
	Interconnection	mm²	3 x 2.5 + T	3 x 2.5 + T	3 x 2.5 + T	3 x 4 + T	
Wireless remote control			H Series	H Series	H Series	H Series	
Operation temperature	Indoor (Cooling / Heating)	°C	18 ~ 32 / 0 ~ 30	18 ~ 32 / 0 ~ 30	18 ~ 32 / 0 ~ 30	18 ~ 32 / 0 ~ 30	
	Outdoor (Cooling / Heating)	°C	-10 ~ 47 / -10 ~ 30	-10 ~ 47 / -10 ~ 30	-10 ~ 47 / -10 ~ 30	-10 ~ 47 / -10 ~ 30	

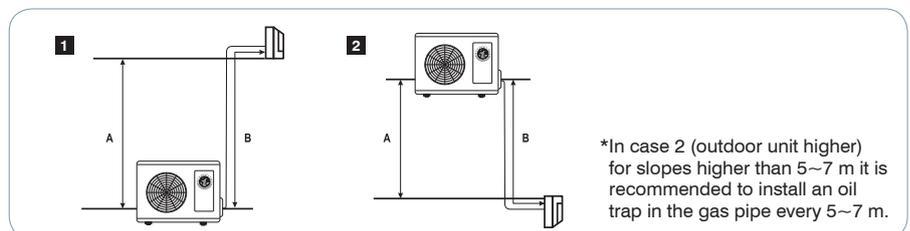
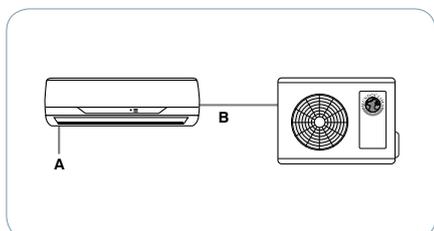
Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.
*Outdoor unit MUPR-24-H5A (V2)

ELECTRICAL INSTALLATION

Model	Electrical wiring (A)	Interconnection wiring (B)
MUPR-09-H5A	2 x 2.5 + T	3 x 2.5 + T
MUPR-12-H5A	2 x 2.5 + T	3 x 2.5 + T
MUPR-18-H5A	2 x 2.5 + T	3 x 2.5 + T
MUPR-24-H5A	2 x 4 + T	3 x 4 + T

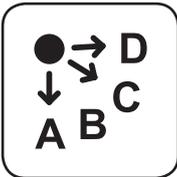
REFRIGERATING INSTALLATION

Model	Pipe		Max. Length (B)	Max. slope (A)	Preload until (m)	Additional charge (g/m)
	Liquid	Gas				
MUPR-09-H5A	1/4"	3/8"	20	10	5	20
MUPR-12-H5A	1/4"	3/8"	20	10	5	25
MUPR-18-H5A	1/4"	1/2"	25	15	5	30
MUPR-24-H5A	3/8"	5/8"	25	15	5	40





H6 MULTISPLIT INVERTER Indoor Unit MUEX-H6 Series 2x1, 3x1, 4x1 and 5x1



138 POTENTIAL COMBINATIONS

Choose the indoor unit that best suits your needs.



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Accessories



JC-02
(CL 94 724)

MUEX-H6 Series

SPECIFICATIONS:

Model			MUEX-14-H6.2	MUEX-18-H6.2	MUEX-21-H6.3	MUEX-27-H6.3		
Code			CL 20 440	CL 20 441	CL 20 442	CL 20 443		
Cooling	Nominal capacity (min. - max.)		kW	4.10 (1.76 – 4.54)	5.20 (2.08 – 6.29)	6.30 (2.44-7.32)	7.90 (2.77 – 8.69)	
	Nominal consumption (min. - max.)		kW	1.24 (0.42 – 1.43)	1.75 (0.59 – 2.16)	1.94 (0.68 – 2.38)	2.46 (0.76 – 2.93)	
	Pdesignc		kW	4.10	5.20	6.10	7.90	
	SEER		W/W	6.80	6.30	6.40	6.60	
	Energy labeling			A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)		kW	4.40 (1.89 – 4.87)	5.50 (2.2 – 6.66)	6.70 (2.64 – 7.92)	8.20 (2.87 – 9.02)	
	Nominal consumption (min. - max.)		kW	1.16 (0.39 – 1.33)	1.50 (0.5 – 1.85)	1.81 (0.64 – 2.22)	2.27 (0.70 – 2.70)	
	Pdesignh		kW	3.40	4.70	5.70	5.90	
	SCOP		W/W	4.00	4.00	4.00	4.00	
	Energy labeling			A+	A+	A+	A+	
	Tbiv		°C	-7	-7	-7	-7	
Tol		°C	-15	-15	-15	-15		
Power supply		V-Hz-Ph	230 / 50 / 1Ph	230 / 50 / 1Ph	230 / 50 / 1Ph	230 / 50 / 1Ph		
Max. consumption		kW	2.0	2.3	2.8	3.3		
Max. current		A	11	12	15	16		
Outdoor Unit	Air flow rate (max.)		m³/h	2,100	2,100	2,800	3,300	
	Sound pressure (High)		dB(A)	54	56.5	57.5	59.5	
	Sound power (High)		dB(A)	60	65	65	68	
	Dimensions (W x H x D)		mm	800 x 554 x 333	800 x 554 x 333	845 x 702 x 363	845 x 702 x 363	
	Weight		kg	30.5	36	47	52.7	
Refrigerant	Type			R410A	R410A	R410A	R410A	
	Load		kg	1.25	1.7	2.1	2.1	
	Preload until (total pipes 1/4")		m	15	15	22.5	22.5	
	Additional load (pipes 1/4")		g/m	15	15	15	15	
Connection pipes	Liquid		inches	(1/4") x 2"	(1/4") x 2	(1/4") x 3	(1/4") x 3	
	Gas		inches	(3/8") x 2"	(3/8") x 2	(3/8") x 3	(3/8") x 3	
	Max. Length		m	30	30	45	45	
	Length for indoor unit		m	25	25	30	30	
	Max. Drop Height	Outdoor ut. up		m	15	15	15	15
		Outdoor ut. down		m	15	15	15	15
		Height difference between indoor units		m	10	10	10	10
Electrical wiring	Supply (outdoor unit only)		mm²	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	2 x 4 + T	
	Interconnection per unit Interior		mm²	3 x 1.5 + T				
Operation temp.	Indoor (Cool. / Heat.)		°C	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	
	Outdoor (Cool. / Heat.)		°C	-15~50 / -15~24	-15~50 / -15~24	-15~50 / -15~24	-15~50 / -15~24	

Warning: 1. Data and specifications are subject to changes without previous notice.
 2. The values of noise level match with values obtained in the semi-anechoic chamber.
 3. The capacity, consumption and SEER / SCOP values indicated are for MUPR-09-H6M indoor units (just as much outputs has the outdoor unit), for other combinations see the combinations table (www.mundoclima.com).

SPECIFICATIONS:

MUEX-H6 Series

Model			MUEX-28-H6.4	MUEX-36-H6.4	MUEX-42-H6.5		
Code			CL 20 444	CL 20 445	CL 20 446		
Cooling	Nominal capacity (min. - max.)		kW	8.21 (3.04 – 9.93)	10.60 (3.71-13.78)	12.30 (4.18-14.00)	
	Nominal consumption (min. - max.)		kW	2.31 (0.77 – 3.13)	3.89 (1.06 – 4.32)	3.82 (1.03 – 4.66)	
	Pdesignc		kW	8.20	10.60	12.30	
	SEER		W/W	6.80	7.60	7.70	
	Energy labeling			A++	A++	A++	
Heating	Nominal capacity (min. - max.)		kW	8.90 (3.26-10.65)	11,10(3,89-13,32)	12,30(4,18-14,94)	
	Nominal consumption (min. - max.)		kW	3.47 (0.83 – 3.05)	3.00 (0.81 – 3.89)	3.37 (0.91 – 4.21)	
	Pdesignh		kW	7.00	9.30	9.60	
	SCOP		W/W	4.00	3.80	3.80	
	Energy labeling			A+	A	A	
	Tbiv		°C	-7	-7	-7	
Tol			°C	-15	-15		
Power supply			V-Hz-Ph	230 / 50 / 1Ph	230 / 50 / 1Ph	230 / 50 / 1Ph	
Max. consumption			kW	3.5	4.6	4.7	
Max. current			A	17	21.5	22	
Outdoor Unit	Air flow rate (max.)		m³/h	3,500	5,500	5,500	
	Sound pressure (High)		dB(A)	60	63.5	62	
	Sound power (High)		dB(A)	66	68	68	
	Dimensions (W x H x D)		mm	946 x 810 x 410	946 x 810 x 410	946 x 810 x 410	
	Weight		kg	67.6	70	76	
Refrigerant	Type			R410A	R410A	R410A	
	Load		kg	2.4	3.0	3.6	
	Preload until (total pipes 1/4")		m	30	30	37.5	
	Additional load (pipes 1/4")		g/m	15	15	15	
Connection pipes	Liquid		inches	(1/4")x3+(1/4")x1	(1/4")x3+(1/4")x1	(1/4")x4+(1/4")x1	
	Gas		inches	(3/8")x3+(1/2")x1	(3/8")x3+(1/2")x1	(3/8")x4+(1/2")x1	
	Max. Length		m	60	60	75	
	Length for indoor unit		m	35	35	35	
	Max. Drop Height	Outdoor ut. up		m	15	15	15
		Outdoor ut. down		m	15	15	15
		Height difference between indoor units		m	10	10	10
Electrical wiring	Supply (outdoor unit only)		mm²	2 x 4 + T	2 x 4 + T	2 x 4 + T	
	Interconnection per unit Interior		mm²	3 x 1.5 + T	3 x 1.5 + T	3 x 1.5 + T	
Operation temp.	Indoor (Cool. / Heat.)		°C	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	
	Outdoor (Cool. / Heat.)		°C	-15~50 / -15~24	-15~50 / -15~24	-15~50 / -15~24	

Warning: 1. Data and specifications are subject to changes without previous notice.

2. The values of noise level match with values obtained in the semi-anechoic chamber.

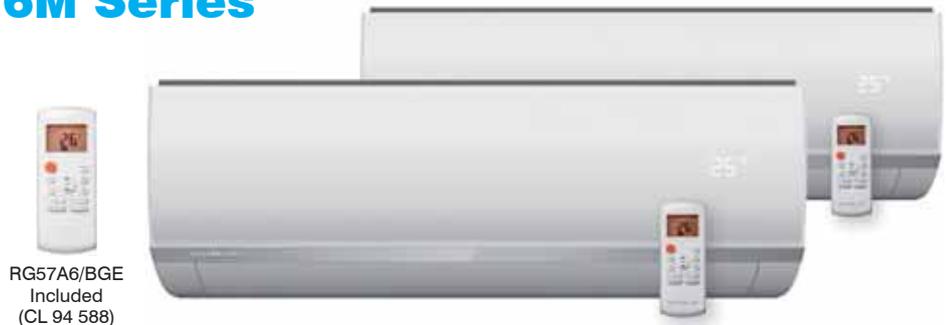
3. The capacity, consumption and SEER / SCOP values indicated are for MUPR-09-H6M indoor units (just as much outputs has the outdoor unit), for other combinations see the combinations table (www.mundoclima.com).



MULTISPLIT INVERTER H6

Wall Type **MUPR-H6M Series**

Save time for installation



RG57A6/BGE
Included
(CL 94 588)



EASILY DISMANTELED
Easy access to PCB, detachable fan, movable housing. **Save 30 % of servicing time.**



MORE ACCESSIBLE FILTERS
Without the need to open the panel, it avoids the dirt to fall down. **Save 5% of cleaning time.**



MORE SPACE FOR INSTALLATION
New bracket, fastener feet, simpler electrical connection. **Save 20% of installation time.**



WIDE RANGE OF CONNECTIVITY
Possibility of connecting different control devices, among them also a Wifi module. **Check your new Mundoclimate air conditioner from anywhere you are.**

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wired remote control

Centralized controller

Integral control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/TF-E⁽¹⁾
(CL 94 384)



CCM30/BKE⁽¹⁾
(CL 92 871)



CCM15⁽¹⁾
(CL 92 872)



IMM4⁽¹⁾
(CL 97 160-163)



CCM08/E⁽¹⁾
(CL 92 915)



LONGW64/E⁽¹⁾
(CL 92 877)



CCM18A/N⁽¹⁾
(CL 94 791)



MD-AC-MBS-1⁽¹⁾
(CL 99 097)



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI

Accessories



MUNDACLIMA
OSK102 (CL 94 382)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)



Multifunction Module
(CL 94 383)



KJR-150A/M-E⁽¹⁾
(CL 97 156)

⁽¹⁾Multifunction module needed
(CL 94 383).

Model			MUPR-09-H6M	MUPR-12-H6M	MUPR-18-H6M	MUPR-24-H6M
Code			CL 20 450	CL 20 451	CL 20 452	CL 20 453
Cooling	Nominal capacity (min. ~ max.)	kW	2.63 (1.17 ~ 3.31)	3.51 (1.26 ~ 4.45)	5.27 (1.90 ~ 6.12)	7.03 (2.66 ~ 7.88)
	Nominal rating	W	24	24	34	62
Heating	Nominal capacity (min. ~ max.)	kW	2.93 (0.82 ~ 3.72)	3.81 (1.06 ~ 4.86)	5.56 (1.42 ~ 6.74)	7.62 (2.08 ~ 9.14)
	Nominal rating	W	24	24	34	62
Air flow rate (High / Medium / Low)		m ³ /h	472 / 360 / 254	562 / 497 / 224	870 / 730 / 500	1176 / 921 / 446
Sound pressure (High / Medium / Low)		dB(A)	40 / 35 / 28	41 / 40 / 33	45 / 43 / 34	47 / 45 / 35
Sound power (High)		dB(A)	53	52	58	60
Remote control			RG57	RG57	RG57	RG57
Connection pipes	Liquid	mm (inches)	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")
	Gas	mm (inches)	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø15.9 (5/8")
Dimensions (W x H x D)		mm	717 x 302 x 193	805 x 302 x 193	964 x 325 x 222	1106 x 342 x 232
Weight		kg	7.0	7.7	10.1	13.2

Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the semi-anechoic chamber.
3. The capacity values will vary depending on the selected outdoor unit.



H6 MULTISPLIT INVERTER

Cassette Type

MUCSR-H6M Series



RG57B2/BGE
Included
(CL 94 982)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RG57A6/BGE
(CL 94 588)

Wired remote control



KJR-120G/TF-E
(CL 94 907)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Centralized controller

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

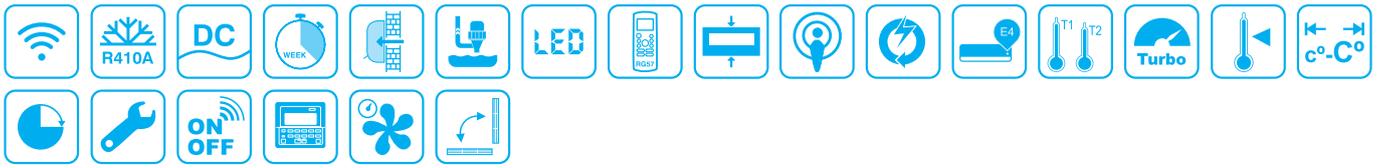
Accessories



KJR-150A/M-E
(CL 97 156)

Model			MUCSR-12-H6M	MUCSR-18-H6M
Code			CL 20 454	CL 20 455
Cooling	Rated capacity (min. ~ max.)	kW	3.52 (0.62 ~ 4.40)	4.92 (0.79 ~ 6.15)
	Nominal rating	W	40	102
Heating	Rated capacity (min. ~ max.)	kW	4.10 (0.62 ~ 5.13)	5.57 (0.88 ~ 7.03)
	Nominal rating	W	40	102
Air flow rate (High / Medium / Low)		m³/h	650 / 530 / 450	800 / 650 / 500
Sound pressure (High / Medium / Low)		dB(A)	42 / 38 / 34	48 / 42 / 36
Sound power (High)		dB(A)	58	59
Drain connection		mm	ø25	ø25
Drain pump height		mm	750	750
Fresh air intake		mm	ø65	ø65
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph
Remote control			RG57	RG57
Connection pipes	Liquid	mm (inch)	ø6,35 (1/4")	ø6,35 (1/4")
	Gas	mm (inch)	ø9,52 (3/8")	ø12,7 (1/2")
Dimensions	Unit body (Width x Height x Depth)	mm	570 x 260 x 570	570 x 260 x 570
	Panel (Width x Height x Depth)	mm	647 x 50 x 647	647 x 50 x 647
Weight	Unit	kg	16	18
	Panel	kg	2.5	2.5

Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the semi-anechoic chamber.



H6 MULTISPLIT INVERTER Duct Type MUCR-H6M Series



KJR-120G/TF-E
(CL 94 907) Incl.



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RG57A6/BGE
(CL 94 588)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Wired remote control

Centralized controller

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



MUNDOCLIMA WF-60A1
(CL 97 157)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)

Model			MUCR-12-H6M	MUCR-18-H6M
Code			CL 20 456	CL 20 457
Cooling	Rated capacity (min. ~ max.)	kW	3.52 (0.62 ~ 4.40)	5.27 (1.90 ~ 6.12)
	Nominal rating	W	40	107
Heating	Rated capacity (min. ~ max.)	kW	3.81 (0.62 ~ 4.98)	5.86 (1.42 ~ 6.74)
	Nominal rating	W	40	107
Static pressure	Rated	Pa	25	25
	Adjustable	Pa	0 ~ 45	0 ~ 60
Air flow rate (High / Medium / Low)		m³/h	680 / 580 / 450	816 / 546 / 424
Sound pressure (High / Medium / Low)		dB(A)	42 / 38 / 35	46 / 42 / 40
Sound power (High)		dB(A)	59	59
Drain connection		mm	ø25	ø25
Drain pump height		mm	750	750
Fresh air intake		mm	ø90	ø90
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph
Wired remote control			KJR-120G	KJR-120G
Connection pipes	Liquid	mm (inch)	ø6,35 (1/4")	ø6,35 (1/4")
	Gas	mm (inch)	ø9,52 (3/8")	ø12,7 (1/2")
Dimensions (W x H x D)		mm	700 x 210 x 635	920 x 210 x 635
Weight		kg	18.4	23

Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the semi-anechoic chamber.

H6 SELECTION MULTISPLIT INVERTER

STEP 1

Select the power that best suited to each of the rooms to be air-conditioned. The following table shows the different powers so you can select the most suitable model for your needs.

Model	9	12	18	24
Capacity	2.6 kW	3.5 kW	5.2 kW	7.0 kW
WALL SPLIT 	MUPR-09-H6M CL 20 450	MUPR-12-H6M CL 20 451	MUPR-18-H6M CL 20 452	MUPR-24-H6M CL 20 453
CASSETTE 	—	MUCSR-12-H6M CL 20 454	MUCSR-18-H6M CL 20 455	—
DUCT 	—	MUCR-12-H6M CL 20 456	MUCR-18-H6M CL 20 457	—

STEP 2

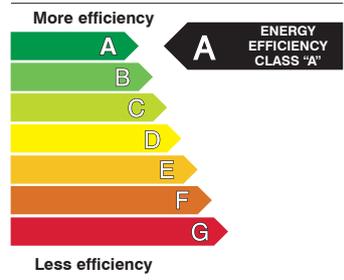
Select the outdoor unit that best suits to the chosen combination of indoor units.

	2x1		3x1		4x1		5x1
	MUEX-14-H6.2 CL 20 440	MUEX-18-H6.2 CL 20 441	MUEX-21-H6.3 CL 20 442	MUEX-27-H6.3 CL 20 443	MUEX-28-H6.4 CL 20 444	MUEX-36-H6.4 CL 20 445	MUEX-42-H6.5 CL 20 446
1 ROOM	9 12 18	9 12 18	9 12 18	9 12 18	9 12 18 24	9 12 18 24	9 12 18 24
2 ROOMS	9+9 9+12	9+9 9+12 9+18 12+12	9+9 9+12 9+18 12+12	9+9 9+12 9+18 12+12 12+18	9+9 9+12 9+18 9+24 12+12 12+18 12+24 18+18	9+9 9+12 9+18 9+24 12+12 12+18 12+24 18+18	9+9 9+12 9+18 9+24 12+12 12+18 12+24 18+18 18+24
3 ROOMS	—	—	9+9+9 9+9+12	9+9+9 9+9+12 9+9+18 9+12+12 9+12+18 12+12+12	9+9+9 9+9+12 9+9+18 9+12+12 9+12+18 12+12+12	9+9+9 9+9+12 9+9+18 9+12+12 9+12+18 9+18+18 12+12+12 12+12+18 12+12+24 12+18+18	9+9+9 9+9+12 9+9+18 9+9+24 9+12+12 9+12+18 9+18+18 12+12+12 12+12+18 12+12+24 12+18+18 18+18+18
4 ROOMS	—	—	—	—	9+9+9+9 9+9+9+12	9+9+9+9 9+9+9+12 9+9+9+18 9+9+12+12 9+9+12+18 9+12+12+12 9+12+12+18 9+12+12+18 12+12+12+12	9+9+9+9 9+9+9+12 9+9+9+18 9+9+12+12 9+9+12+18 9+12+12+12 9+12+12+18 9+12+12+18 9+12+18+18 12+12+12+12 12+12+12+18
5 ROOMS	—	—	—	—	—	—	9+9+9+9+9 9+9+9+9+12 9+9+9+9+18 9+9+9+12+12 9+9+9+12+18 9+9+12+12+12 9+9+12+12+18 9+12+12+12+12 9+12+12+12+18 9+12+12+12+18 12+12+12+12+12 12+12+12+12+18



WINDOW AIR CONDITIONERS

MUVR-C6 Series



Remote control included



Easy-to-dismantle panel



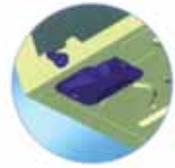
Air renovation



Movable chassis



High air flow rate



TECHNICAL SPECIFICATIONS

MODEL			MUVR-09-C6	MUVR-12-C6
Code			CL 20 380	CL 20 381
Cooling	Nominal capacity	kW	2.78	3.51
	Nominal consumption Peer	kW	0.85	1.1
	Nominal intensity	A	3.9	5.1
	Pdesignc	kW	2.8	3.5
	EERd	W/W	3.27	3.20
	SEER	W/W	5.10	5.10
	Energy labeling		A	A
	Electricity Consumption Qsdc	kWh/year	195	237
Power consumption in thermostat-off mode Pto		W	15	15
Standby power consumption Psb		W	1	1
Sound pressure level	Indoor Unit (High / Medium / Low)	dB(A)	51.3 / 49.8 / 48.5	52.4 / 51.6 / 50.7
	Outdoor unit (High)	dB(A)	60	58.5
LWA sound power level	Interior	dB(A)	51.3	56
	Exterior	dB(A)	64.3	64
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph
Max. intensity		A	6.58	7.36
Max. consumption		kW	1.29	1.43
Air flow rate	Indoor ut. (High / Medium / Low)	m³/h	448 / 391 / 332	420 / 366 / 310
	Outdoor ut. (High)	m³/h	780	680
Refrigerant	Type		R32	R32
	Amount	kg	0.39	0.48
	GWP Global Warming Potential	kg CO ₂ eq.	675	675
Design pressure		MPa	1.7-4.8	1.7-4.8
Dimensions (W x D x H)		mm	560 x 670 x 400	560 x 670 x 400
Weight		kg	46.1	47.8
Remote control model			RG51	RG51
Operation Operation	Interior	°C	17 to 35	17 to 35
	Exterior	°C	18 to 43	18 to 43

Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.



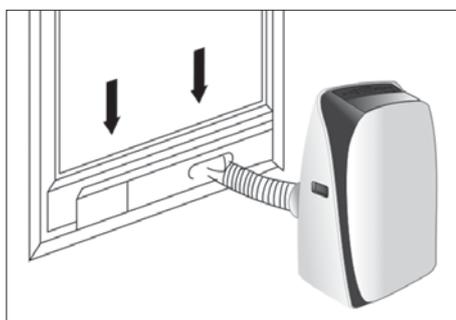
PORTABLE AIR CONDITIONERS MONOBLOC UNIT

MUPO Series C6/H6

with outlet pipe to the outside



Remote control included



Window kit included



MUPO-07-C6



MUPO-09-H6
MUPO-12-H6

TECHNICAL SPECIFICATIONS

MODEL		MUPO-07-C6	MUPO-09-H6	MUPO-12-H6	
Code		CL 20 006	CL 20 007	CL 20 008	
Cooling	Nominal capacity	kW	2.05	2.6	3.5
	Nominal consumption Peer	kW	0.78	0.995	1.34
	EERd	W/W	2.63	2.61	2.62
	Energy labeling		A	A	A
	Electricity Consumption Qsd	kWh/h	0.78	0.995	1.315
Heating	Nominal capacity	kW	–	2.6	3.3
	Nominal consumption Pcop	kW	–	0.865	1.10
	COPd	W/W	–	3.00	3.00
	Energy labeling		–	A+	A+
	Electricity Consumption Qsd	kWh/h	–	0.865	1.125
Power consumption in thermostat-off mode Pto		W	43	54	70
Standby power consumption Psb		W	0.21	0.259	0.34
Sound power level Lwa		dB(A)	62	62	62
Power supply		V-Hz-Ph	220-240V ~ 50Hz, 1Ph		
Max. current		A	4.5	6	8
Air flow rate	Interior	m³/h	330	410	410
	Exterior	m³/h	450	500	570
Diameter of air discharge hose		mm	130	150	150
Refrigerant	Type		R410A	R410A	R410A
	Amount	kg	0.28	0.4	0.52
	GWP Global Warming Potential	kg CO ₂ eq.	2088	2088	2088
Dimensions (W x D x H)		mm	345 x 355 x 750	480 x 400 x 795	480 x 400 x 795
Weight		kg	23.5	30	33

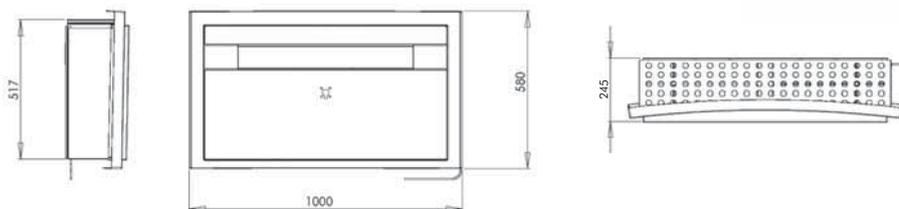
Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.



AIR CONDITIONER UNIT WITHOUT OUTDOOR UNIT

MU-WZ Series

- Energy efficiency Class A/C.
- Easy to install: only two 162 mm holes.
- Remote control and front display.
- Outdoor grille of EPDM (patented).
- Ultra compact design.
- Backup resistance for low temperatures.
- Floor installation (wall bottom).



Outdoor grille of EPDM (patented)



Two Ø162 mm holes



Air renovation



TECHNICAL SPECIFICATIONS

MODEL		MU-WZ32
Code		CL 19 782
Cooling capacity	W	3,348
Heating capacity	W	3,762
Electric resistance	W	500
Electric consumption (cooling - heating)	W	1.287 - 1.214 (+500 electric resistance)
EER (class)	W/W	2.6 (A)
COP (class)	W/W	3.1 (A)
Inner air flow	m ³ /h	480
Outdoor air flow	m ³ /h	690
Dehumidification	l/h	1.3
Inner sound pressure (High/Medium/Low)	dB(A)	49 - 46.5 - 43.8
Outdoor sound pressure (High/Medium/Low)	dB(A)	59.6 - 41.6
Operating temperature range	°C	-5 ~ 43
Power supply	V/Hz	230 - 50
Dimensions (Width x Height x Depth)	mm	1,000 x 580 x 250
Weight	kg	45
Diameters of holes on the wall	mm	162
Refrigerant	kg	0.68 (R410A)

Warning: 1. Data and specifications are subject to changes without previous notice.
2. The values of noise level match with values obtained in the anechoic chamber.



Anti-odor and anti-bacterial filters



Safety box for remote control



Built-in control panel





COMMERCIAL RANGE

CASSETTE

Ideal for urban environments. Compact and without air channeling. Design and air distribution in the same product. Its centrifugal fan allows air renewal of the in the fastest and most efficient way.

DUCT

The most popular product at European level. The air conditioning is not visible, but people can feel it. It allows the air to reach all corners, even though they may be inaccessible.

CEILING-FLOOR

How do you want it, on the floor or on the ceiling? Ideal for restaurants, bars and all those places where, by its nature, a great flow is needed.



SPLIT CASSETTE TYPE MUCSR-H6 Series

**SCOP
4.0**



RG57B2/BGE
Included
(CL 94 982)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RG57A6/BGE
(CL 94 588)

Wired remote control



KJR-120G/TF-E
(CL 94 907)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Centralized controller

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



JC-02
(CL 94 724)

(1) Digital Display LED: Except models 12 and 18.
(2) Compact size panel: Only 12 and 18 models.

TECHNICAL SPECIFICATIONS

MUCSR-H6 Series

Model			MUCSR-12-H6	MUCSR-18-H6	MUCSR-24-H6	MUCSR-30-H6	MUCSR-36-H6	
Code			CL 20 230	CL 20 231	CL 20 232	CL 20 233	CL 20 234	
Cooling	Nominal capacity (min. - max.)	kW	3.52 (0.62 ~ 4.40)	5.27 (0.79 ~ 6.15)	7.03 (1.20 ~ 8.21)	8.79 (2.08 ~ 10.55)	10.55 (2.93 ~ 12.02)	
	Nominal consumption (min. - max.)	W	960 (210 ~ 1.692)	1,630 (270 ~ 2.365)	2,170 (400 ~ 3.155)	2,765 (690 ~ 4.055)	4,060 (975 ~ 4.620)	
	Pdesignc	kW	3.5	5.3	7.0	8.8	10.5	
	SEER	W/W	6.1	6.3	6.1	6.1	6.1	
	Energy labeling		A++	A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)	kW	4.10 (0.62 ~ 5.13)	5.57 (0.88 ~ 7.03)	7.03 (1.20 ~ 8.65)	9.08 (2.08 ~ 10.52)	11.13 (2.64 ~ 13.19)	
	Nominal consumption (min. - max.)	W	995 (496 ~ 1.830)	1,500 (295 ~ 2.510)	1,900 (400 ~ 3,090)	2,380 (690 ~ 3,755)	3,085 (880 ~ 4,690)	
	Intermediate climate zone	Pdesignh (design load)	kW	3.6	4.8	5.8	7.9	9.9
		SCOP	W/W	4.0	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15	-15
	Warm climate zone	Pdesignh (design load)	kW	3.6	5.0	5.6	8.3	10.5
		SCOP	W/W	5.1	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2	2
		Tol	°C	-15	-15	-15	-15	-15
	Indoor unit	Air flow rate (High / Medium / Low)	m³/h	650/ 530/450	660/ 550/490	1450/ 1250/1100	1700/ 1460/1300	1900/ 1750/1460
Sound pressure (High / Medium / Low)		dB(A)	42 / 38 / 34	46 / 42 / 38	46 / 42 / 39	53 / 48 / 44	53 / 50 / 47	
Sound power (High)		dB(A)	57	56	61	64	61	
Drain connection		mm	Ø25	Ø25	Ø32	Ø32	Ø32	
Condensate pump height ⁽¹⁾		mm	750	750	750	750	750	
Fresh air intake ⁽²⁾		mm	Ø65	Ø65	Ø75	Ø75	Ø75	
Power supply		V-Hz-Ph	—	220-240V~ 50Hz, 1Ph				
Inner power cable		mm²	—	2x1.5 + T	2x1.5 + T	2x1.5 + T	2x1.5 + T	
Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
Dimensions		Unit Body (W x H x D)	mm	570x260x570	570x260x570	840x245x840	840x245x840	840x245x840
		Panel (W x H x D)	mm	647x50x647	647x50x647	950x55x950	950x55x950	950x55x950
Weight	Unit	kg	16	16.5	24	26.5	25.6	
	Panel	kg	2.5	2.5	5	5	5	
Outdoor unit	Air flow (High)	m³/h	2000	2100	2700	4,300	4,300	
	Sound pressure (High)	dB(A)	57	56.5	60.5	59.5	61	
	Sound power (High)	dB(A)	60	64	65	67	66	
	Compressor (Brand / Model)		GMCC / ASM98D32UFZ	GMCC / ASM135D23UFZ	GMCC / ATF235D22UMT	GMCC / ATF235D22UMT	GMCC / ATF310D43UMT	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph					
	Outdoor power cable	mm²	2x2.5 + T	2x2.5 + T	2x2.5 + T	2x4 + T	2x4 + T	
	Dimensions (W x H x D)	mm	800x554x333	800x554x333	845x702x363	946x810x410	946x810x410	
	Weight	kg	34.5	35.5	49	62.9	67.2	
Whole set	Communication cable	mm²	4x1.5	2x0.75 (shielded)				
	Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
		Load	kg	1.38	1.78	1.95	2.8	3.2
		Preload until	m	5	5	5	5	5
	Additional load (from 5 m)	g/m	15	15	30	30	30	
	Design pressure (High / Low)	MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
	Connection pipes	Liquid / Gas	mm (inches)	Ø6.35 / Ø9.52 (1/4" / 3/8")	Ø6.35 / Ø12.7 (1/4" / 1/2")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")
		Max. Length ⁽³⁾	m	25	30	50	50	65
		Max. Drop Height	m	10	20	25	25	30
	Operation temperature	Indoor (cooling/heating)	°C	17 ~ 32 / 0 ~ 30				
Outdoor (Cooling/Heating)		°C	-15~50 / -15~24					

Notes: ⁽¹⁾ Elevation height of condensate water from the unit shaft if elbow is installed horizontally at 200 mm maximum.

⁽²⁾ Inner diameter.

⁽³⁾ Pipes minimum length of 2 m.

* The above design and specifications are subject to change of product improvement without prior notice.

** The values of noise level match with values obtained in the anechoic chamber.

TECHNICAL SPECIFICATIONS

MUCSR-H6 Series

Model			MUCSR-42-H6	MUCSR-48-H6	MUCSR-48-H6T	MUCSR-60-H6T	
Code			CL 20 235	CL 20 236	CL 20 237	CL 20 238	
Cooling	Nominal capacity (min. - max.)	kW	12.01 (3.22 ~ 13.19)	14.06 (3.99 ~ 16.12)	13.77 (3.99 ~ 16.12)	15.83 (4.98 ~ 18.46)	
	Nominal consumption (min. - max.)	W	4,090 (1,070 ~ 5.070)	5,159 (1,330 ~ 6.200)	5,159 (1,330 ~ 6.200)	6,395 (1,660 ~ 7.100)	
	Pdesignc	kW	12.1	14.0	14.0	16.0	
	SEER	W/W	5.6	5.6	5.6	5.6	
	Energy labeling		A+	A+	A+	A+	
Heating	Nominal capacity (min. - max.)	kW	13.48 (2.93~14.65)	16.12 (4.19~17.59)	15.53 (4.19~17.59)	18.17 (5.28~20.51)	
	Nominal consumption (min. - max.)	W	3,535 (975~5,230)	4,555 (1,400~6,765)	4,555 (1,400~6,765)	5,735 (1,760~7320)	
	Intermediate climate zone	Pdesignh (design load)	kW	11.0	11.5	11.5	11.5
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignh (design load)	kW	11.1	11.8	11.6	12.2
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2
	Tol	°C	-15	-15	-15	-15	
Indoor unit	Air flow rate (High / Medium / Low)	m³/h	1,850 / 1,600 / 1,400	1,850 / 1,600 / 1,400	1,850 / 1,600 / 1,400	1,900 / 1,650 / 1,450	
	Sound pressure (High / Medium / Low)	dB(A)	54 / 51 / 48	53 / 49 / 45	55 / 51 / 48	52 / 49 / 46	
	Sound power (High)	dB(A)	64	63	63	68	
	Drain connection	mm	Ø32	Ø32	Ø32	Ø32	
	Condensate pump height ⁽¹⁾	mm	750	750	750	750	
	Fresh air intake ⁽²⁾	mm	Ø75	Ø75	Ø75	Ø75	
	Power supply	V-Hz-Ph	220-240V~50Hz, 1Ph				
	Inner power cable	mm²	2x1,5 + T	2x1,5 + T	2x1,5 + T	2x1,5 + T	
	Wireless remote control		RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
	Dimensions	Unit Body (W x H x D)	mm	840x287x840	840x287x840	840x287x840	840x287x840
		Panel (W x H x D)	mm	950x55x950	950x55x950	950x55x950	950x55x950
Weight	Unit	kg	26.1	28	28	31	
	Panel	kg	5	5	5	5	
Outdoor unit	Air flow (High)	m³/h	4,300	6,800	6,800	7,200	
	Sound pressure (High)	dB(A)	62.5	65	65	62.5	
	Sound power (High)	dB(A)	71	71	72	74	
	Compressor (Brand/ Model)		GMCC / ATF310D43UMT	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph		380-415V~ 50Hz, 3Ph		
	Outdoor power cable	mm²	2 x 6 + T	2 x 6 + T	4 x 2.5 + T	4 x 2.5 + T	
	Dimensions (W x H x D)	mm	946 x 810 x 410	952 x 1333 x 415	952 x 1333 x 415	952 x 1333 x 415	
	Weight	kg	70.5	95.1	108.1	112.8	
Whole set	Communication cable	mm²	2 x 0.75 (shielded)				
	Refrigerant	Type		R410A	R410A	R410A	R410A
		Load	kg	3.65	4	4	4.3
		Preload until	m	5	5	5	5
		Additional load (from 5 m)	g/m	30	30	30	30
	Design pressure (High / Low)	MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
	Connection pipes	Liquid / Gas	mm (inches)	Ø9.52 / Ø15.9 (3/8" / 5/8")			
		Max. Length ⁽³⁾	m	65			
		Max. Drop Height	m	30			
	Operation temperature	Indoor (cooling/heating)	°C	17 ~ 32 / 0 ~ 30			
Outdoor (Cooling/Heating)		°C	-15 ~ 50 / -15 ~ 24				

Notes: ⁽¹⁾ Elevation height of condensate water from the unit shaft if elbow is installed horizontally at 200 mm maximum.

⁽²⁾ Inner diameter.

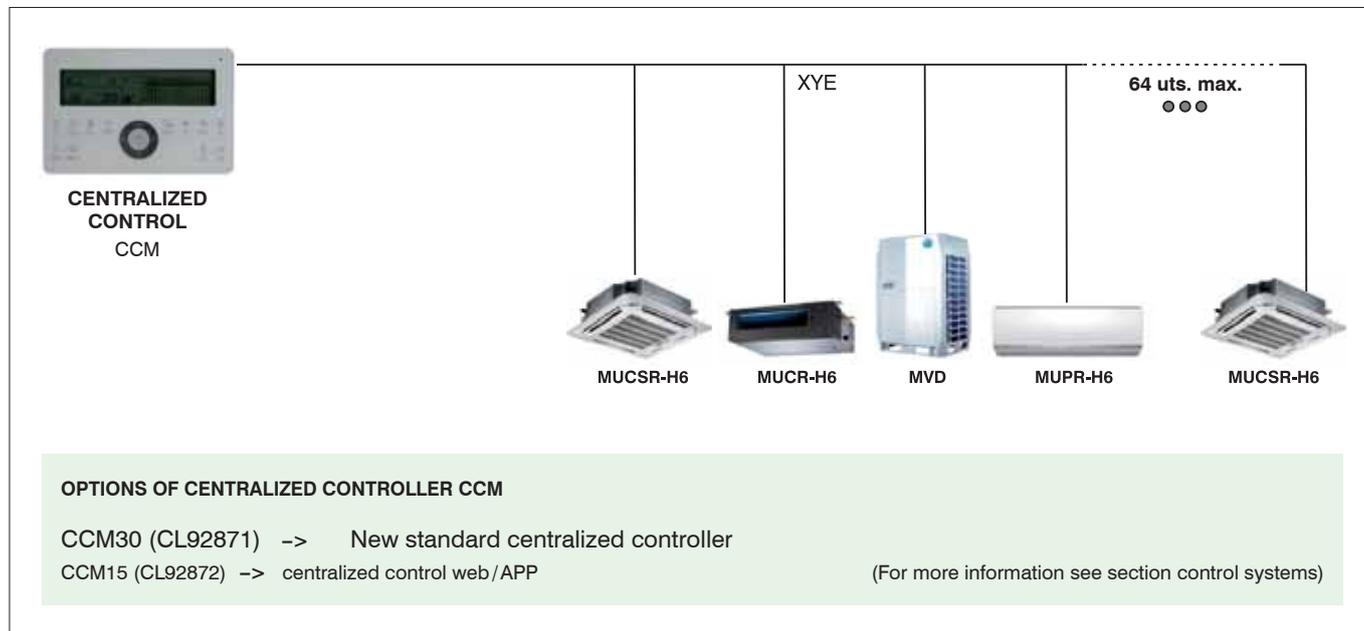
⁽³⁾ Pipes minimum length of 2 m.

* The above design and specifications are subject to change of product improvement without prior notice.

** The values of noise level match with values obtained in the anechoic chamber.

MUCSR-H6 Series

CENTRALIZED CONTROLLER CONNECTION

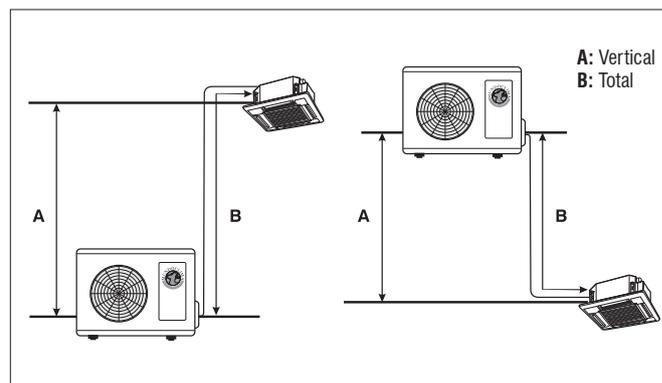
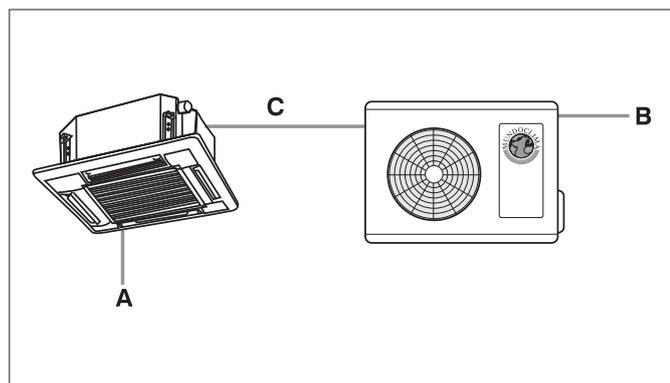


ELECTRICAL WIRING

Model	Power supply				Interconnection C
	Unit	Phases	Indoor A	Outdoor B	
MUCSR-12-H6	OUTDOOR	SINGLE	-	3x2,5	4x1.5
MUCSR-18-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x2,5	2 x 0.75 (shielded)
MUCSR-24-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x2,5	
MUCSR-30-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x4	
MUCSR-36-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x4	
MUCSR-42-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x6	
MUCSR-48-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x6	
MUCSR-48-H6T	IND/OUT	SINGLE/THREE	3x1.5	5x2,5	
MUCSR-60-H6T	IND/OUT	SINGLE/THREE	3x1.5	5x2,5	

CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

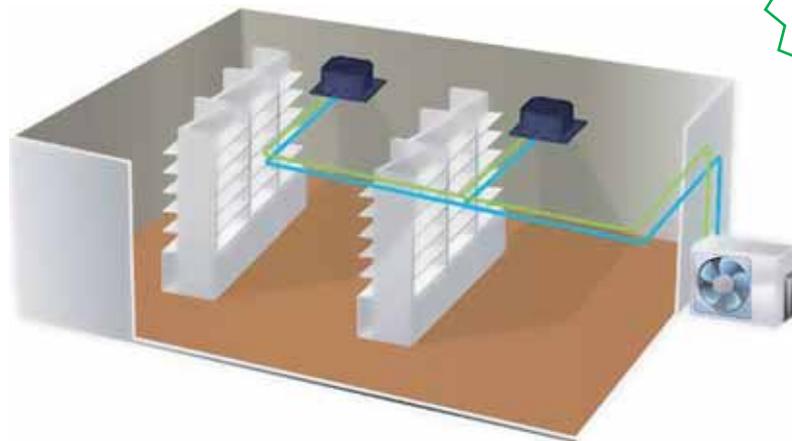
Model	Pipe		Max. distance		Additional Load (g/m)	Preload up to (m)
	Gas	Liquid	A	B		
MUCSR-12-H6	3/8"	1/4"	10	25	15	5
MUCSR-18-H6	1/2"	1/4"	20	30	15	5
MUCSR-24-H6	5/8"	3/8"	25	50	30	5
MUCSR-30-H6	5/8"	3/8"	25	50	30	5
MUCSR-36-H6	5/8"	3/8"	30	65	30	5
MUCSR-42-H6	5/8"	3/8"	30	65	30	5
MUCSR-48-H6	5/8"	3/8"	30	65	30	5
MUCSR-48-H6T	5/8"	3/8"	30	65	30	5
MUCSR-60-H6T	5/8"	3/8"	30	65	30	5



Note: The communication cable cannot be used to supply neither the indoor unit nor the outdoor one.

Twin Cassette System (2x1)

MUCSR-H6 Series



**SYSTEM 2x1,
enables connection
of 2 INDOOR UNITS
of identical capacity
to a SINGLE
OUTDOOR UNIT**

Model			MUCSR-18X2-H6	MUCSR-24X2-H6	MUCSR-24X2-H6T	MUCSR-30X2-H6T
Code			CL 20 924	CL 20 925	CL 20 926	CL 20 927
Total capacity	Cooling / Heating	kW	10.55 / 11.13	14.06 / 16.12	13.77 / 15.53	15.83 / 18.17
Pcs. Indoor uts.	Model		MUCSR-18-H6	MUCSR-24-H6	MUCSR-24-H6T	MUCSR-30-H6T
	Code	Body	UI 20 231	UI 20 232	UI 20 232	UI 20 233
		Panel	UI 20 231	UI 20 232	UI 20 232	UI 20 233
	Amount		2	2	2	2
	Individual capacity (Cooling / Heating)		kW	5.28 / 5.57	6.89 / 7.76	6.89 / 7.76
Power supply			220-240V - 50Hz, 1Ph			
Unit Exterior	Model		MUCSR-36-H6	MUCSR-48-H6	MUCSR-48-H6T	MUCSR-60-H6T
	Code		UE20234	UE20236	UE20237	UE20238
	Amount		1	1	1	1
	Power supply		220-240V - 50Hz, 1Ph	220-240V - 50Hz, 1Ph	380-415V - 50Hz, 3Ph	380-415V - 50Hz, 3Ph
Branch Pipe	Model		FQZHN-01D	FQZHN-01D	FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611	TF03611	TF03611
	Amount		1	1	1	1
Connection pipes	Unit Out. Unit to distributor (Liq./Gas)	inches	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Unit Ind. Unit to distributor (Liq./Gas)	inches	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Communication cable ⁽¹⁾		mm ²	2 x 0.75 (shielded)			

Note:

⁽¹⁾ The cable has to be wired up from the outdoor unit to the Master indoor unit, then from the Master to the Slave indoor unit.

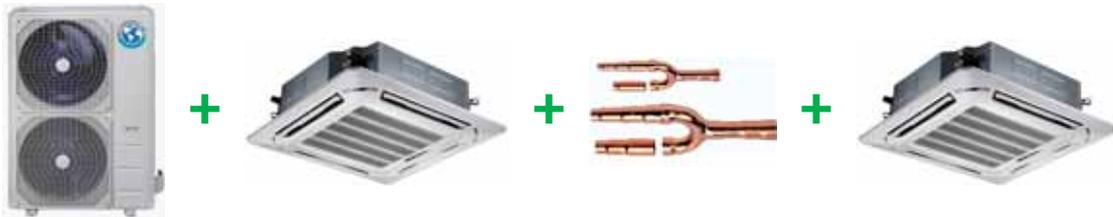
MUCSR-H6 Series

The indoor units have to be set up as Master and Slave. They can be set up using the Micro-switch on the indoor PCB or using the remote control RG57.

IMPORTANT:

In Twin systems, the indoor units ALWAYS work together and uniformly. THEY CANNOT WORK INDEPENDENTLY.

- Twin systems Cassette (2x1) includes:**
- 1 Outdoor unit (axial).
 - 2 Cassette indoor units with identical capacity.
 - 1 branch pipe FQZHN-01D.





SPLIT TYPE CELILING - FLOOR MUSTR-H6 Series

**SCOP
4.0**



RG57B2/BGE
Included
(CL 94 982)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RG57A6/BGE
(CL 94 588)



KJR-120G/TF-E
(CL 94 907)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



MUNDOCLIMA WF-60A1
(CL 97 157)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



JC-02
(CL 94 724)

TECHNICAL SPECIFICATIONS

MUSTR-H6 Series

Model			MUSTR-18-H6	MUSTR-24-H6	MUSTR-30-H6	MUSTR-36-H6	
Code			CL 20 241	CL 20 242	CL 20 243	CL 20 244	
Cooling	Nominal capacity (min. - max.)	kW	5.28 (0.79 ~ 6.15)	7.03 (1.20 ~ 8.21)	8.79 (2.08 ~ 10.55)	10.55 (2.93 ~ 12.02)	
	Nominal consumption (min. - max.)	W	1,630 (270 ~ 2,365)	2,285 (400 ~ 3,155)	2,960 (690 ~ 4,055)	4,060 (975 ~ 4,620)	
	Nominal current (min. - max.)	A	7.5 (1.2 ~ 10.9)	10.4 (1.8 ~ 14.4)	13.5 (3.2 ~ 18.5)	17.6 (4.2 ~ 20.1)	
	Pdesignc	kW	5.3	7.0	8.8	10.5	
	SEER	W/W	6.5	6.1	6.1	6.3	
	Energy labeling		A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)	kW	5.67 (0.88 ~ 7.03)	7.03 (1.20 ~ 8.65)	9.38 (2.08 ~ 10.84)	11.13 (2.64 ~ 13.19)	
	Nominal consumption (min. - max.)	W	1,460 (255 ~ 2,510)	1,900 (400 ~ 3,090)	2,475 (690 ~ 3,870)	2,985 (880 ~ 4,690)	
	Nominal current (min. - max.)	A	6.7 (1.20 ~ 11.50)	8.7 (1.8 ~ 14.1)	11.3 (3.2 ~ 17.7)	13.0 (3.8 ~ 20.4)	
	Intermediate climate zone	Pdesignh (design load)	kW	4.9	5.8	8.2	10.5
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignh (design load)	kW	5.2	5.6	8.6	10.5
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2
		Tol	°C	-15	-15	-15	-15
	Indoor unit	Air flow (High/Medium/Low)	m³/h	900 / 800 / 700	1,180 / 1,050 / 850	1,650 / 1,450 / 1,250	2,048 / 1,767 / 1,403
Sound pressure (High / Medium / Low)		dB(A)	44 / 39 / 34	53 / 48 / 42	54 / 49 / 44	52 / 46 / 40	
Sound power (High)		dB(A)	57	63	64	63	
Drain connection		mm	Ø25	Ø25	Ø25	Ø25	
Fresh air intake ⁽¹⁾		mm	Ø120	Ø120	Ø120	Ø120	
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph				
Inner power cable		mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
Dimensions (W x H x D)		mm	1,068 x 235 x 675	1,068 x 235 x 675	1,285 x 235 x 675	1,650 x 235 x 675	
Weight		kg	25.8	25	31	40.3	
Outdoor unit	Air flow (High)	m³/h	2,100	2,700	4,300	4,300	
	Sound pressure (High)	dB(A)	56.5	60.5	59.5	61	
	Sound power (High)	dB(A)	65	65	66	66	
	Compressor (Brand / Model)		GMCC / ASM135D23UFZ	GMCC / ATF235D22UMT	GMCC / ATF235D22UMT	GMCC / ATF310D43UMT	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph				
	Outdoor power cable	mm²	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	2 x 4 + T	
	Dimensions (W x H x D)	mm	800 x 554 x 333	845 x 702 x 363	946 x 810 x 410	946 x 810 x 410	
	Weight	kg	35.5	49	62.9	67.2	
Whole set	Communication cable	mm²	2 x 0.75 (shielded)				
	Refrigerant	Type		R410A	R410A	R410A	R410A
		Load	kg	1.78	1.95	2.8	3.2
		Preload until	m	5	5	5	5
		Additional load (from 5 m)	g/m	15	30	30	30
	Design pressure	MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
	Connection pipes	Liquid / Gas	mm (inch)	Ø6.35 / Ø12.7 (1/4" / 1/2")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")
		Max. Length ⁽²⁾	m	30	50	50	65
		Max. Drop Height	m	20	25	25	30
	Operation temperature	Indoor (cooling/heating)	°C	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30
Outdoor (Cooling/Heating)		°C	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	

Notes: ⁽¹⁾ Inner diameter.

⁽²⁾ Pipes minimum length of 2 m.

* The above design and specifications are subject to change of product improvement without prior notice.

** The values of noise level match with values obtained in the anechoic chamber.

TECHNICAL SPECIFICATIONS

MUSTR-H6 Series

Model			MUSTR-42-H6	MUSTR-48-H6	MUSTR-48-H6T	MUSTR-60-H6T	
Code			CL 20 245	CL 20 246	CL 20 247	CL 20 248	
Cooling	Nominal capacity (min. - max.)	kW	12.31 (3.22 ~ 13.19)	14.07 (4.10 ~ 16.41)	14.07 (4.10 ~ 16.41)	15.82 (4.98 ~ 18.11)	
	Nominal consumption (min. - max.)	W	4,230 (1,070 ~ 5,070)	5,190 (1,370 ~ 6,310)	5,190 (1,370 ~ 6,310)	6,060 (1,660 ~ 6,965)	
	Nominal current (min. - max.)	A	18.4 (4.6 ~ 22.0)	22.5 (6.0 ~ 27.4)	9.0 (2.4 ~ 10.9)	10.5 (2.9 ~ 12.0)	
	Pdesignnc	kW	12.1	14.0	14.0	16.0	
	SEER	W/W	6.1	6.1	6.1	6.1	
	Energy labeling		A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)	kW	13.50 (3.00 ~ 14.70)	16.41 (4.40 ~ 18.46)	16.41 (4.40 ~ 18.46)	18.17 (5.28 ~ 20.51)	
	Nominal consumption (min. - max.)	W	3,540 (945 ~ 5,000)	4,810 (1,465 ~ 6,590)	4,810 (1,465 ~ 6,590)	5,645 (1,760 ~ 7,320)	
	Nominal current (min. - max.)	A	15.3 (4.1 ~ 21.7)	20.9 (6.4 ~ 28.6)	8.3 (2.5 ~ 11.4)	9.7 (3.0 ~ 12.6)	
	Intermediate climate zone	Pdesignnh (design load)	kW	11.0	11.8	11.8	12.0
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol (Operating limited temp.)	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignnh (design load)	kW	11.1	11.8	11.6	12.2
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2
		Tol	°C	-15	-15	-15	-15
	Indoor unit	Air flow rate (High / Medium / Low)	m³/h	2.271 / 1.886 / 1.364	2.100 / 1.800 / 1.400	2.100 / 1.800 / 1.400	2.250 / 1.660 / 1.280
		Sound pressure (High / Medium / Low)	dB(A)	55 / 49 / 43	52 / 46 / 41	56 / 48 / 41	55 / 50 / 45
Sound power (High)		dB(A)	67	67	66	70	
Drain connection		mm	Ø25	Ø25	Ø25	Ø25	
Fresh air intake ⁽¹⁾		mm	Ø120	Ø120	Ø120	Ø120	
Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph				
Inner power cable		mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
Dimensions (W x H x D)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675	
Weight		kg	40.5	38.2	38.2	40.5	
Outdoor unit	Air flow (High)	m³/h	4,300	6,800	6,800	7,200	
	Sound pressure (High)	dB(A)	62.5	65	65	62.5	
	Sound power (High)	dB(A)	71	72	72	75	
	Compressor (Brand / Model)		GMCC / ATF310D43UMT	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	380-415V~ 50Hz, 3Ph	380-415V~ 50Hz, 3Ph	
	Outdoor power cable	mm²	2 x 6 + T	2 x 6 + T	4 x 2.5 + T	4 x 2.5 + T	
	Dimensions (W x H x D)	mm	946 x 810 x 410	952 x 1333 x 415	952 x 1333 x 415	952 x 1333 x 415	
	Weight	kg	70.5	95.1	108.1	112.8	
Whole set	Communication cable	mm²	2 x 0.75 (shielded)				
	Refrigerant	Type		R410A	R410A	R410A	R410A
		Load	kg	3.65	4	4	4.3
		Preload until	m	5	5	5	5
		Additional load (from 5 m)	g/m	30	30	30	30
	Design pressure	MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
	Connection pipes	Liquid / Gas	mm (inch)	Ø9.52 / Ø15.9 (3/8" / 5/8")			
		Max. Length ⁽²⁾	m	65	65	65	65
		Max. Drop Height	m	30	30	30	30
	Operation temperature	Indoor (cooling/heating)	°C	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30
Outdoor (Cooling/Heating)		°C	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	

Notes: ⁽¹⁾ Inner diameter.

⁽²⁾ Pipes minimum length of 2 m.

* The above design and specifications are subject to change of product improvement without prior notice.

** The values of noise level match with values obtained in the anechoic chamber.

MUSTR-H6 Series

CENTRALIZED CONTROLLER CONNECTION

CENTRALIZED CONTROLLER CCM

MUCSR-H6 MUCR-H6 MVD MUPR-H6 MUSTR-H6

XYE

64 uts. max.

OPTIONS OF CENTRALIZED CONTROLLER CCM

CCM30 (CL92871) -> New standard centralized controller
 CCM15 (CL92872) -> centralized control web/APP

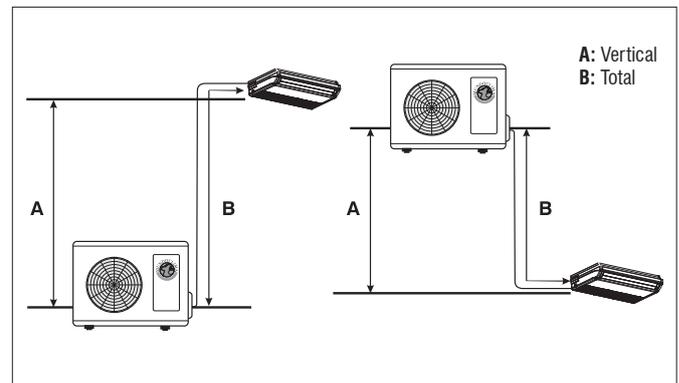
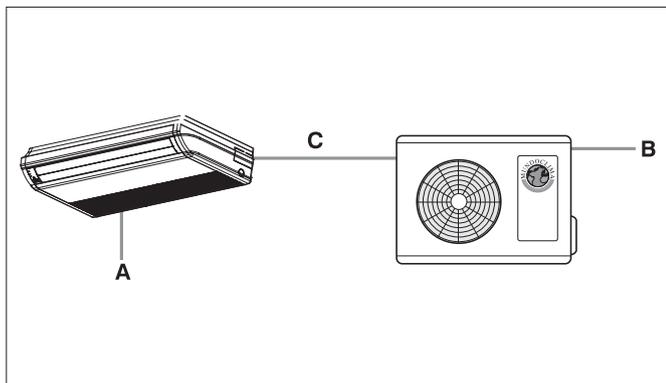
(For more information see section control systems)

ELECTRICAL WIRING

Model	Power supply				Interconnection C
	Unit	Phases	Indoor A	Outdoor B	
MUSTR-18-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x2.5	2x0.75 (Shielded)
MUSTR-24-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x2.5	
MUSTR-30-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x4	
MUSTR-36-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x4	
MUSTR-42-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x6	
MUSTR-48-H6	IND/OUT	SINGLE/SINGLE	3x1.5	3x6	
MUSTR-48-H6T	IND/OUT	SINGLE/THREE	3x1.5	5x2.5	
MUSTR-60-H6T	IND/OUT	SINGLE/THREE	3x1.5	5x2.5	

CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

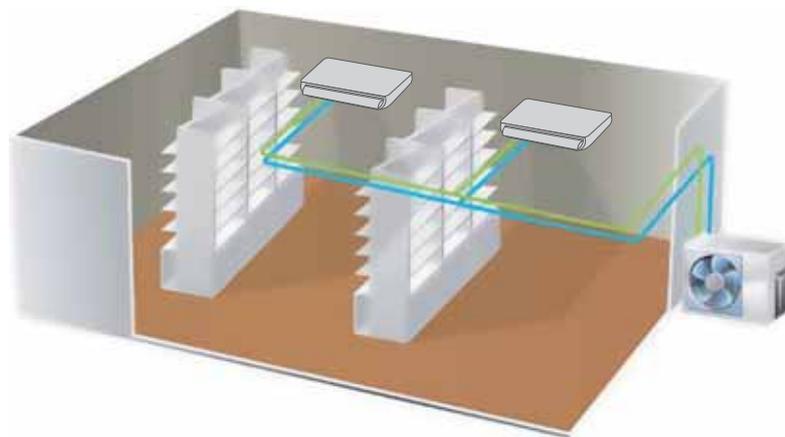
Model	Pipe		Max. distance		Additional Load (g/m)	Preload up to (m)
	Gas	Liquid	A	B		
MUSTR-18-H6	1/2"	1/4"	20	30	15	5
MUSTR-24-H6	5/8"	3/8"	25	50	30	5
MUSTR-30-H6	5/8"	3/8"	25	50	30	5
MUSTR-36-H6	5/8"	3/8"	30	65	30	5
MUSTR-42-H6	5/8"	3/8"	30	65	30	5
MUSTR-48-H6	5/8"	3/8"	30	65	30	5
MUSTR-48-H6T	5/8"	3/8"	30	65	30	5
MUSTR-60-H6T	5/8"	3/8"	30	65	30	5



Note: The communication cable cannot be used to supply neither the indoor unit nor the outdoor one.

Floor/Ceiling Twin System (2x1)

MUSTR-H6 Series



SYSTEM 2x1, enables connection of 2 INDOOR UNITS of identical capacity to a SINGLE OUTDOOR UNIT

Model			MUSTR-18X2-H6	MUSTR-24X2-H6	MUSTR-24X2-H6T	MUSTR-30X2-H6T
Code			CL 20 932	CL 20 933	CL 20 934	CL 20 935
Total capacity	Cooling / Heating	kW	10.55 / 11.13	14.07 / 16.41	14.07 / 16.41	15.82 / 18.17
Pcs. Indoor uts.	Model		MUSTR-18-H6	MUSTR-24-H6	MUSTR-24-H6	MUSTR-30-H6
	Code		UI20241	UI20242	UI20242	UI20243
	Amount		2	2	2	2
	Individual capacity (Cooling / Heating)	kW	5.28 / 5.67	7.03 / 8.20	7.03 / 8.20	7.91 / 9.08
Power supply			220-240V~ 50Hz, 1Ph			
Unit Exterior	Model		MUSTR-36-H6	MUSTR-48-H6	MUSTR-48-H6T	MUSTR-60-H6T
	Code		UE20244	UE20246	UE20247	UE20248
	Amount		1	1	1	1
	Power supply		220-240V~ 50Hz, 1Ph		380-415V~ 50Hz, 3Ph	
Branch Pipe	Model		FQZHN-01D	FQZHN-01D	FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611	TF03611	TF03611
	Amount		1	1	1	1
Connection pipes	Unit Out. Unit to distributor (Liq./Gas)	inches	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Unit Ind. Unit to distributor (Liq./Gas)	inches	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Communication cable ⁽¹⁾		mm ²	2 x 0.75 (shielded)			

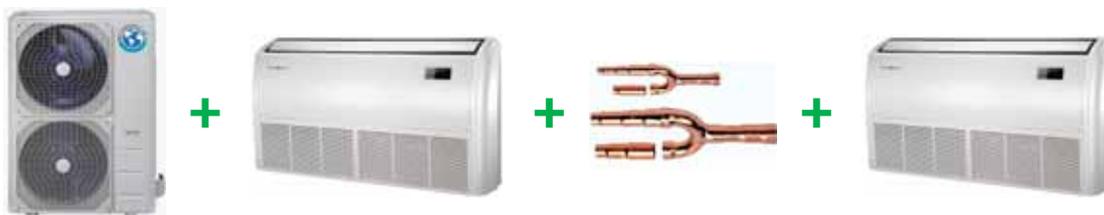
Note:

⁽¹⁾ The cable has to be wired up from the outdoor unit to the Master indoor unit, then from the Master to the Slave indoor unit.

The indoor units have to be set up as Master and Slave. They can be set up using the Micro-switch on the indoor PCB or using the remote control RG57.

IMPORTANT: In Twin systems, the indoor units ALWAYS work together and uniformly. THEY CANNOT WORK INDEPENDENTLY.

- Ceiling-Floor Twin Systems (2x1) include:**
- 1 Outdoor unit (axial).
 - 2 Indoor units ceiling-floor with the same capacity.
 - 1 branch pipe FQZHN-01D.





DUCT SPLIT TYPE MUCR-H6 Series

**SCOP
4.0**



KJR-120G/TF-E
Included
(CL 94 907)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RG57A6/BGE
(CL 94 588)

Wired remote control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



MUNDOCLIMA WF-60A1
(CL 97 157)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



JC-02
(CL 94 724)

⁽¹⁾Only MUCR-12-H6.

TECHNICAL SPECIFICATIONS

MUCR-H6 Series

Model			MUCR-12-H6	MUCR-18-H6	MUCR-24-H6	MUCR-30-H6	MUCR-36-H6	
Code			CL 20 250	CL 20 251	CL 20 252	CL 20 253	CL 20 254	
Cooling	Nominal capacity (min. - max.)	kW	3.52 (0.62 ~ 4.40)	5.28 (0.79 ~ 6.15)	7.03 (1.20 ~ 8.21)	8.79 (2.08 ~ 10.55)	10.55 (2.93 ~ 12.02)	
	Nominal consumption (min. - max.)	W	1,030 (210 ~ 1.690)	1,685 (260 ~ 2.365)	2,285 (400 ~ 3.155)	2,875 (690 ~ 4.055)	3,965 (975 ~ 4.620)	
	Nominal current (min. - max.)	A	4.7 (1.0 ~ 7.7)	7.7 (1.2 ~ 10.80)	10.4 (1.8 ~ 14.4)	13.1 (3.2 ~ 18.5)	18.1 (4.2 ~ 20.1)	
	Pdesignc	kW	3.5	5.3	7.0	8.8	10.5	
	SEER	W/W	6.1	6.5	6.1	6.1	6.3	
	Energy labeling		A++	A++	A++	A++	A++	
Heating	Nominal capacity (min. - max.)	kW	3.81 (0.62 ~ 4.98)	5.57 (0.88 ~ 7.03)	7.03 (1.20 ~ 8.65)	9.38 (2.08 ~ 10.84)	11.13 (2.64 ~ 13.19)	
	Nominal consumption (min. - max.)	W	995 (496 ~ 1.790)	1,460 (290 ~ 2.510)	1,900 (400 ~ 3.090)	2,460 (690 ~ 3.870)	2,923 (880 ~ 4.690)	
	Nominal current (min. - max.)	A	4.5 (2.3 ~ 8.2)	6.7 (1.3 ~ 11.5)	8.7 (1.8 ~ 14.1)	11.2 (3.2 ~ 17.7)	13.4 (3.8 ~ 20.4)	
	Intermediate climate zone	Pdesignh (design load)	kW	3.3	4.7	5.8	8.2	10.5
		SCOP	W/W	4.0	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7	-7
		Tol (Operating limited temp.)	°C	-15	-15	-15	-15	-15
	Warm climate zone	Pdesignh (design load)	kW	3.6	5.0	5.6	8.6	10.5
		SCOP	W/W	5.1	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2	2
		Tol	°C	-15	-15	-15	-15	-15
	Indoor unit	Air flow rate (High / Medium / Low)	m³/h	680/ 580/450	1050/ 900/780	1360/ 1200/970	1580/ 1400/1100	1750/ 1500/1280
Static pressure		Rated	Pa	25	25	25	37	37
		Configurable ⁽¹⁾	Pa	0 ~ 45	0 ~ 100	0 ~ 100	0 ~ 100	0 ~ 100
Sound pressure (High / Medium / Low)		dB(A)	42 / 38 / 35	44 / 40 / 37	46 / 42 / 38	50 / 48 / 44	48 / 45 / 40	
Sound power (High)		dB(A)	54	58	62	65	58	
Drain connection		mm	Ø25	Ø25	Ø25	Ø25	Ø25	
Condensate pump height ⁽²⁾		mm	750	750	750	750	750	
Fresh air intake ⁽³⁾		mm	Ø90	Ø90	Ø90	Ø125	Ø125	
Power supply		V-Hz-Ph	—	220-240V ~ 50Hz, 1Ph				
Inner power cable		mm²	—	2 x 1.5 + T				
Wired remote control			KJR-120G	KJR-120G	KJR-120G	KJR-120G	KJR-120G	
Dimensions (W x H x D)		mm	700x210x635	920x270x635	920x270x635	1140x270x775	1200x300x865	
Weight		kg	18.4	26.9	28	35	45	
Outdoor unit	Air flow (High)	m³/h	2000	2100	2700	4,300	4,300	
	Sound pressure (High)	dB(A)	57	56.5	60.5	59.5	61	
	Sound power (High)	dB(A)	60	64	65	66	66	
	Compressor (Brand / Model)		GMCC / ASM98D32UFZ	GMCC / ASM135D23UFZ	GMCC / ATF235D22UMT	GMCC / ATF235D22UMT	GMCC / ATF310D43UMT	
	Power supply	V-Hz-Ph	220-240V ~ 50Hz, 1Ph					
	Outdoor power cable	mm²	2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	2 x 4 + T	
	Dimensions (W x H x D)	mm	800 x 554 x 333	800 x 554 x 333	845 x 702 x 363	946 x 810 x 410	946 x 810 x 410	
	Weight	kg	34.5	35.5	49	62.9	67.2	
	Communication cable	mm²	4 x 1.5					
	Whole set	Refrigerant R410A	Load	kg	1.38	1.78	1.95	2.8
Preload until			m	5	5	5	5	5
Additional load (from 5 m)			g/m	15	15	30	30	30
Design pressure		MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
Connection pipes		Liquid / Gas	mm (inch)	Ø6.35 / Ø9.52 (1/4" / 3/8")	Ø6.35 / Ø12.7 (1/4" / 1/2")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")
	Max. Length ⁽⁴⁾	m	25	30	50	50	65	
	Max. Drop Height	m	10	20	25	25	30	
Operation temperature	Indoor (cooling/heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	
	Outdoor (Cooling/Heating)	°C	-15~50/-15~24	-15~50/-15~24	-15~50/-15~24	-15~50/-15~24	-15~50/-15~24	

Notes: ⁽¹⁾ Configurable pressure via micro-switch ENC2 PCB on the indoor unit.
⁽²⁾ Pump height measured from the unit shaft. The elbow is set horizontally at 200 mm maximum.
⁽³⁾ Inner diameter.
⁽⁴⁾ Pipes minimum length of 2 m.
 *The above design and specifications are subject to change of product improvement without prior notice.

TECHNICAL SPECIFICATIONS

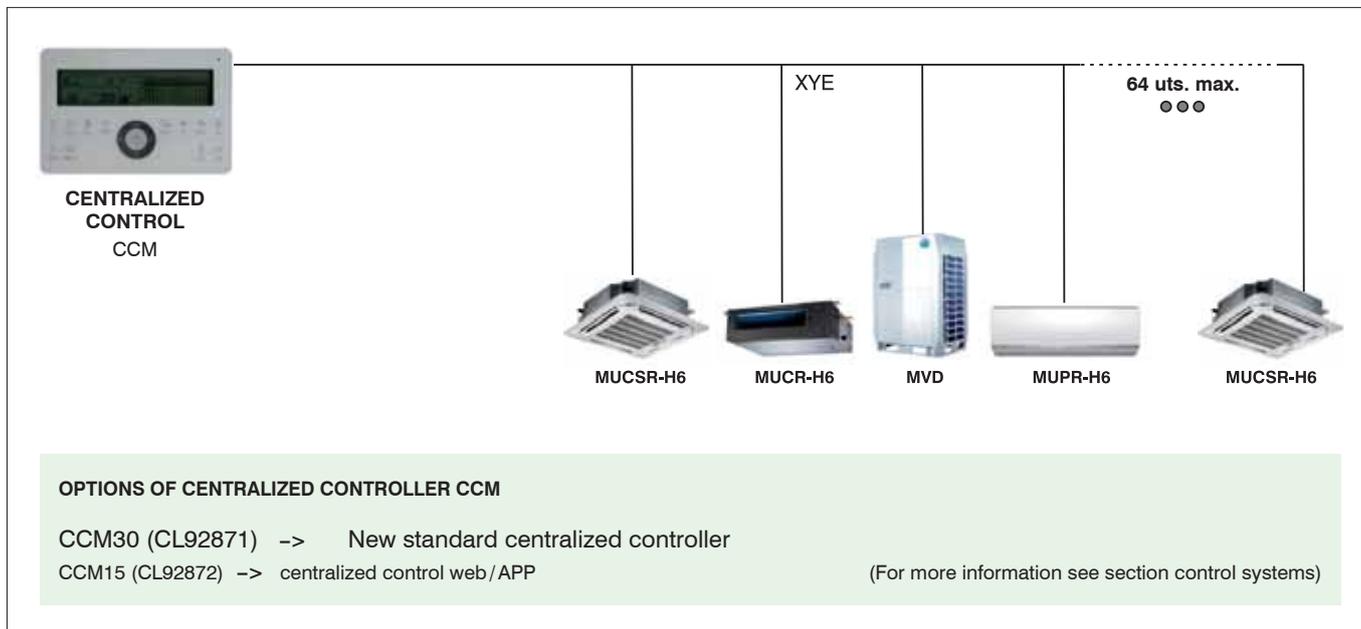
MUCR-H6 Series

Model			MUCR-42-H6	MUCR-48-H6	MUCR-48-H6T	MUCR-60-H6T	
Code			CL 20 255	CL 20 256	CL 20 257	CL 20 258	
Cooling	Nominal capacity (min. - max.)	kW	12.02 (3.22 ~ 13.19)	14.07 (4.10 ~ 16.41)	14.07 (4.10 ~ 16.41)	15.82 (4.98 ~ 18.11)	
	Nominal consumption (min. - max.)	W	4,090 (1,070 ~ 5.070)	5,115 (1,370 ~ 6.310)	5,115 (1,370 ~ 6.310)	5,255 (1,660 ~ 6.965)	
	Nominal current (min. - max.)	A	17.8 (4.6 ~ 22.0)	23.4 (5.9 ~ 27.4)	8.8 (2.4 ~ 10.9)	9.1 (2.9 ~ 12.0)	
	Pdesignnc	kW	12.1	14.0	14.0	16.0	
	SEER	W/W	5.6	6.1	6.1	6.1	
	Energy labeling		A+	A++	A++	A++	
Heating	Nominal capacity (min. - max.)	kW	13.48 (2.93 ~ 14.65)	16.12 (4.34 ~ 18.13)	16.12 (4.34 ~ 18.13)	18.17 (5.28 ~ 20.51)	
	Nominal consumption (min. - max.)	W	3,535 (975 ~ 5.230)	4,355 (1,445 ~ 6.475)	4,355 (1,445 ~ 6.475)	5,033 (1,760 ~ 7.320)	
	Nominal current (min. - max.)	A	15.4 (4.2 ~ 22.7)	19.9 (6.2 ~ 28.1)	7.5 (2.5 ~ 11.2)	8.7 (3.0 ~ 12.6)	
	Intermediate climate zone	Pdesignnh (design load)	kW	11.0	12.2	12.2	12.3
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labeling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignnh (design load)	kW	11.6	11.8	11.6	12.3
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labeling		A+++	A+++	A+++	A+++
		Tbiv	°C	2	2	2	2
		Tol	°C	-15	-15	-15	-15
	Indoor unit	Air flow rate (High / Medium / Low)	m³/h	2200/ 1900/1600	2200/ 1900/1600	2200/ 1900/1600	2200/ 1900/1600
Static pressure		Rated	Pa	50	50	50	50
		Configurable ⁽¹⁾	Pa	0 ~ 100	0 ~ 100	0 ~ 100	0 ~ 100
Sound pressure (High / Medium / Low)		dB(A)	50 / 47 / 44	51 / 48 / 45	50 / 47 / 44	50 / 47 / 45	
Sound power (High)		dB(A)	68	68	68	69	
Drain connection		mm	Ø25	Ø25	Ø25	Ø25	
Condensate pump height ⁽²⁾		mm	750	750	750	750	
Fresh air intake ⁽³⁾		mm	Ø125	Ø125	Ø125	Ø125	
Power supply		V-Hz-Ph	220-240V ~ 50Hz, 1Ph				
Inner power cable		mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
Wired remote control			KJR-120G	KJR-120G	KJR-120G	KJR-120G	
Dimensions (W x H x D)		mm	1200 x 300 x 865	1200 x 300 x 865	1200 x 300 x 865	1200 x 300 x 865	
Weight		kg	43.4	43.2	43.2	43.1	
Outdoor unit	Air flow (High)	m³/h	4,300	6,800	6,800	7,200	
	Sound pressure (High)	dB(A)	62.5	65	65	62.5	
	Sound power (High)	dB(A)	71	72	72	75	
	Compressor (Brand / Model)		GMCC / ATF310D43UMT	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	
	Power supply	V-Hz-Ph	220-240V ~ 50Hz, 1Ph		380-415V ~ 50Hz, 3Ph		
	Outdoor power cable	mm²	2 x 6 + T	2 x 6 + T	4 x 2.5 + T	4 x 2.5 + T	
	Dimensions (W x H x D)	mm	946 x 810 x 410	952 x 1333 x 415	952 x 1333 x 415	952 x 1333 x 415	
	Weight	kg	70.5	95.1	108.1	112.8	
Whole set	Communication cable	mm²	2 x 0.75 (shielded)				
	Refrigerant R410A	Load	kg	3.65	4	4	4.3
		Preload until	m	5	5	5	5
		Additional load (from 5 m)	g/m	30	30	30	30
	Design pressure	MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	
	Connection pipes	Liquid / Gas	mm (inch)	Ø9.52 / Ø15.9 (3/8" / 5/8")			
		Max. Length ⁽⁴⁾	m	65	65	65	65
		Max. Drop Height	m	30	30	30	30
	Operation temperature	Indoor (cooling/heating)	°C	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30
		Outdoor (Cooling/ Heating)	°C	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24	-15 ~ 50 / -15 ~ 24

Notes: ⁽¹⁾ Configurable pressure via micro-switch ENC2 PCB on the indoor unit.
⁽²⁾ Pump height measured from the unit shaft. The elbow is set horizontally at 200 mm maximum.
⁽³⁾ Inner diameter.
⁽⁴⁾ Pipes minimum length of 2 m.
 *The above design and specifications are subject to change of product improvement without prior notice.

MUCR-H6 Series

CENTRALIZED CONTROLLER CONNECTION

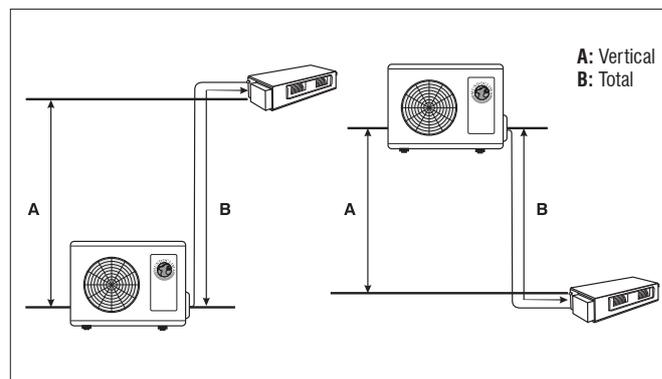
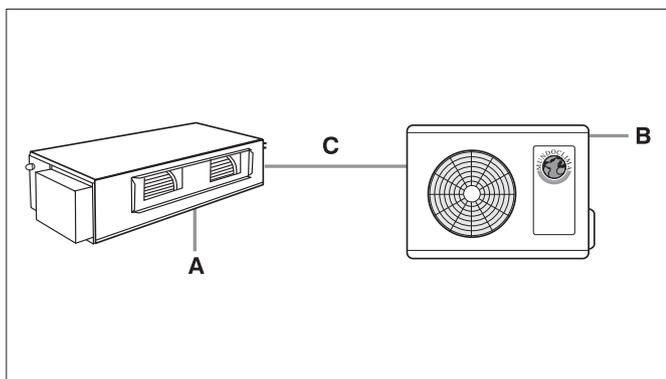


ELECTRICAL WIRING

Model	Power supply				Interconnection C
	Unit	Phases	Indoor A	Outdoor B	
MUCR-12-H6	OUTDOOR	SINGLE	-	3x2.5	4x1.5
MUCR-18-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x2.5	2x0.75 (Shielded)
MUCR-24-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x2.5	
MUCR-30-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x4	
MUCR-36-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x4	
MUCR-42-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x6	
MUCR-48-H6	IND / OUT	SINGLE / SINGLE	3x1.5	3x6	
MUCR-48-H6T	IND / OUT	SINGLE / THREE	3x1.5	5x2.5	
MUCR-60-H6T	IND / OUT	SINGLE / THREE	3x1.5	5x2.5	

CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

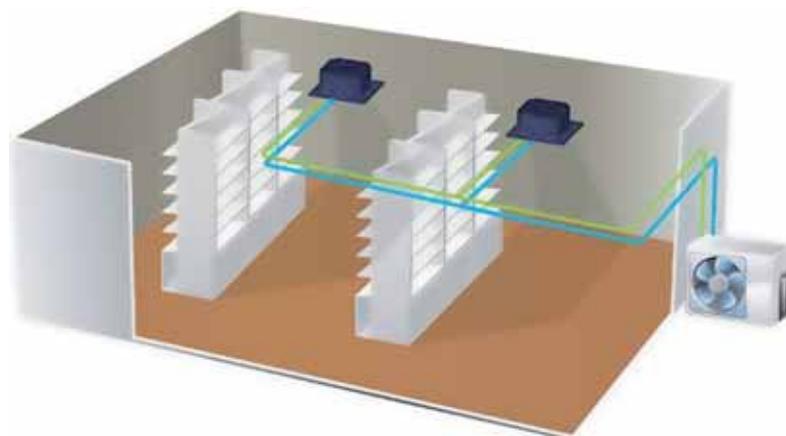
Model	Pipe		Max. distance		Additional Load (g/m)	Preload up to (m)
	Gas	Liquid	A	B		
MUCR-12-H6	3/8"	1/4"	10	25	15	5
MUCR-18-H6	1/2"	1/4"	20	30	15	5
MUCR-24-H6	5/8"	3/8"	25	50	30	5
MUCR-30-H6	5/8"	3/8"	25	50	30	5
MUCR-36-H6	5/8"	3/8"	30	65	30	5
MUCR-42-H6	5/8"	3/8"	30	65	30	5
MUCR-48-H6	5/8"	3/8"	30	65	30	5
MUCR-48-H6T	5/8"	3/8"	30	65	30	5
MUCR-60-H6T	5/8"	3/8"	30	65	30	5



Note: The communication cable cannot be used to supply neither the indoor unit nor the outdoor one.

MUCR-H6 Series

Ducted Twin System (2x1)



SYSTEM 2x1,
enables connection
of 2 INDOOR UNITS
of identical capacity
to a SINGLE
OUTDOOR UNIT

Model			MUCR-18X2-H6	MUCR-24X2-H6	MUCR-24X2-H6T	MUCR-30X2-H6T
Code			CL 20 928	CL 20 929	CL 20 930	CL 20 931
Total capacity	Cooling / Heating	kW	10.55 / 11.13	14.07 / 16.12	14.07 / 16.12	15.82 / 18.17
Pcs. Indoor uts.	Model		MUCR-18-H6	MUCR-24-H6	MUCR-24-H6	MUCR-30-H6
	Code		UI20251	UI20252	UI20252	UI20253
	Amount		2	2	2	2
	Individual capacity (Cooling / Heating)	kW	5.28 / 5.57	7.03 / 8.06	7.03 / 8.06	7.91 / 9.08
	Power supply		220-240V~ 50Hz, 1Ph			
Unit Exterior	Model		MUCR-36-H6	MUCR-48-H6	MUCR-48-H6T	MUCR-60-H6T
	Code		UE20254	UE20256	UE20257	UE20258
	Amount		1	1	1	1
	Power supply		220-240V~ 50Hz, 1Ph		380-415V~ 50Hz, 3Ph	
Branch Pipe	Model		FQZHN-01D	FQZHN-01D	FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611	TF03611	TF03611
	Amount		1	1	1	1
Connection pipes	Unit Out. Unit to distributor (Liq./Gas)	inches	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Unit Ind. Unit to distributor (Liq./Gas)	inches	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Communication cable ⁽¹⁾		mm ²	2 x 0.75 (shielded)			

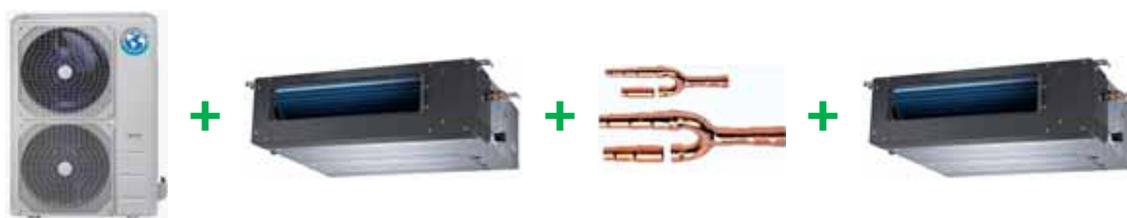
Note: ⁽¹⁾ The cable has to be wired up from the outdoor unit to the Master indoor unit, then from the Master to the Slave indoor unit.

The indoor units have to be set up as Master and Slave. They can be set up using the Micro-switch on the indoor PCB or using the remote control RG57.

IMPORTANT:

n Twin systems, the indoor units ALWAYS work together and uniformly. THEY CANNOT WORK INDEPENDENTLY.

- Twin systems Duct (2x1) includes:**
- 1 Outdoor unit (axial).
 - 2 duct indoor units with identical capacity duct.
 - 1 branch pipe FQZHN-01D.





DUCT INVERTER SPLIT GREAT CAPACITY MUCHR-H7 Series



KJR-29B1/BK-E
Included
(CL 92 869)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)

RM02A/BGE-A
(CL 92 867)

Wired remote control



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/BW-E
(CL 92 946)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)



KJR-150A/M-E
(CL 97 156)



KJR-32B
(CL 92 880)



CCM02/E
(CL 92 912)



DTS634 / DTS636
(CL 92 882)

Accessories

MUCHR-H7 Series

TECHNICAL SPECIFICATIONS

Model			MUCHR-96-H7T		
Code			CL 20 259		
Cooling ⁽¹⁾	Nominal capacity	kW	28.0		
	Nominal rating	W	9.0		
	EER	W/W	3.11		
Heating ⁽²⁾	Nominal capacity	kW	31.5		
	Nominal rating	W	8.5		
	COP	W/W	3.71		
Indoor unit	Air flow rate (High / Medium / Low)		m ³ /h	4,075 / 3,900 / 3,880	
	Static pressure	Rated	Pa	50	
		Configurable ⁽³⁾	Pa	0 ~ 150	
	Sound pressure (High / Medium / Low)		dB(A)	52 / 51 / 49	
	Drain connection		mm	Ø 32	
	Power supply		V-Hz-Ph	220-240V ~ 50Hz, 1Ph	
	Inner power cable		mm ²	2 x 2.5 + T	
	Wired remote control			KJR-29B	
	Provided cable length (4 wires)		m	6	
	Dimensions (Width x Height x Depth)		mm	1470 x 512 x 775	
	Weight		kg	83	
Outdoor unit	Air flow (High)		m ³ /h	9,800	
	Sound pressure (High)		dB(A)	59	
	Compressor (Brand / Model)			DAIKIN / R32	
	Power supply		V-Hz-Ph	380-415V ~ 50Hz, 3Ph	
	Outdoor power cable		mm ²	4 x 6 + T	
	Dimensions (Width x Height x Depth)		mm	1120 x 1558 x 414	
	Weight		kg	148	
Whole set	Communication cable		mm ²	3 x 0.75 (shielded)	
	Refrigerant	Type		R410A	
		Load	kg	7.2	
		Preload until	m	5	
		Additional load (from 5 m)	g/m	30	
	Design pressure		MPa	4.4 / 2.6	
	Connection pipes	Liquid / Gas		mm (inch)	Ø 9.52 / Ø 25.1 (3/8" / 1")
		Max. Length ⁽⁴⁾		m	50
		Max. Drop Height	Higher outdoor unit	m	25
			Lower outdoor unit	m	30
Operation temperature	Indoor (Cooling / Heating)		°C	17 ~ 32 / 0 ~ 30	
	Outdoor (Cooling / Heating)		°C	-15 ~ 46 / -15 ~ 24	

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB for a pipe length of 7.5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB for a pipe length of 7.5 m and a height difference of 0 m.

⁽³⁾ Configurable pressure via Micro-switch ENC2 on the indoor PCB of the indoor unit.

⁽⁴⁾ Pipes minimum length of 2 m.

- Design and specifications are subject to change in order to product improvement without prior notice.

- The values of noise level match with values obtained in the anechoic chamber.



DUCT INVERTER SPLIT GREAT CAPACITY MUCHR-H6 Series



KJR-29B1/BK-E
Included
(CL 92 869)



Mods. 20/ 22/26



Mods. 40/45



Mods. 20/ 22/26



Mods. 40/45

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)

Wired remote control



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/BW-E
(CL 92 946)

Centralized controller



CCM30/BKE⁽²⁾
(CL 92 871)



CCM15⁽²⁾
(CL 92 872)

Integral control



IMM4⁽²⁾
(CL 97 160-163)



CCM08/E⁽²⁾
(CL 92 915)



LONGW64/E⁽²⁾
(CL 92 877)



CCM18A/N⁽²⁾
(CL 94 791)



MD-AC-KNX⁽²⁾
(CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E⁽²⁾
(CL 97 156)



KJR-32B
(CL 92 880)



CCM02/E
(CL 92 912)



DTS634 / DTS636
(CL 92 882)

⁽¹⁾ Except models. 40 and 45.

⁽²⁾ The units from 20 to 26 occupy two addresses (count for 2 units).
Units 40 and 45 occupy four directions (count for 4 units).

MUCHR-H6 Series

TECHNICAL SPECIFICATIONS

MODEL			MUCHR-20-H6	MUCHR-22-H6	MUCHR-26-H6	MUCHR-40-H6	MUCHR-45-H6
Code			CL 23 904	CL 23 905	CL 23 906	CL 23 912	CL 23 913
Cooling ⁽¹⁾	Capacity	kW	19.66	22.53	25.95	38.96	43.95
		Kcal/h	16,910	19,378	22,320	33,509	37,801
	Consumption	kW	6.90	7.60	8.40	14.60	16.30
	EER	kW	2.85	2.96	3.09	2.67	2.70
Heating ⁽²⁾	Capacity	kW	19.86	22.18	25.78	41.35	45.38
		Kcal/h	17,082	19,077	22,174	35,565	39,031
	Consumption	kW	6.90	6.70	8.40	13.80	15.40
	COP	kW	2.88	3.31	3.07	3.00	2.95
Indoor unit	MVD model-		200T1/DHN1-B	250T1/DHN1-B	280T1/DHN1-B	D400T1/N1	D450T1/N1
	Code		CL23381	CL23382	CL23383	CL23184	CL23185
	Power supply	F, V, Hz	1N-, 220-240V, 50Hz				
	Max. current	A	6	6	6	12.5	12.5
	Air Flow (High / Medium / Low)	m ³ /h	4.820/4.660/4.620	4.820/4.660/4.620	4.820/4.660/4.620	7.474/6.072/4.995	7.474/6.072/4.995
	Static pressure available	Pa	62 (40 – 200)	62 (40 – 200)	62 (40 – 200)	200 (50 – 280)	200 (50 – 280)
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	57 / 53 / 50	57 / 53 / 50	57 / 53 / 50	61 / 59 / 56	61 / 59 / 56
	Dimensions (W x H x D)	mm	1450x505x925	1450x505x925	1450x505x925	1970x668x902.5	1970x668x902.5
	Weight	kg	108	108	108	232	232
	Drain connection	mm	Ø32	Ø32	Ø32	Ø32	Ø32
	Power cable ⁽⁵⁾	mm ²	2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + T	2 x 4 + T
	Outdoor Unit	MVD model-		V200W/DRN1	V224W/DRN1	V260W/DRN1	V400W/DRN1
Code		CL23269	CL23270	CL23271	CL23272	CL23273	
Power supply		F, V, Hz	3N-, 400V, 50Hz				
Max. current		A	14.50	17.20	18.70	33.00	44.00
Air flow rate		m ³ /h	10,999	10,494	10,494	16,575	16,575
Static pressure available		Pa	0	0	0	0	0
Sound pressure ⁽⁴⁾		dB(A)	59	59	60	62	62
Dimensions (W x H x D)		mm	1120x1558x414	1120x1558x414	1120x1558x414	1360x1650x540	1460x1650x540
Weight		kg	137	147	147	240	275
Power cable ⁽⁵⁾	mm ²	4 x 6 + T	4 x 6 + T	4 x 6 + T	4 x 16 + T	4 x 16 + T	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Preloaded amount	kg	4.8	6.2	6.2	9.0	12.0
	Additional load (from 0 m)	kg/m	0.057	0.057	0.057	0.110	0.110
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")
	Gas Line	mm (inches)	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")	28,6 (1 1/8")	28,6 (1 1/8")
Refrigeration Distances ⁽⁶⁾	Max. Vertical	m	30	30	30	30	30
	Total	m	60	60	60	250	250
Communication cable		mm ²	3 x 0,75 (shielded)				
Remote control	Model		KJR-29B	KJR-29B	KJR-29B	KJR-29B	KJR-29B
	Type		Wiring	Wiring	Wiring	Wiring	Wiring
Temp. Range Operation	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-5 to 48	-5 to 48
	Heating	°C	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.2 m height (1.3 m for models from 20 to 26 kW).

⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

⁽⁶⁾ Pipe length when outdoor unit is lower installed than the indoor units. Otherwise instead of 30 m is 20 m.

Caution: - Before starting up the equipment (and without supply), you have to configure the whole micro-switch S6 in OFF position in the outdoor unit.

- Models 40 and 45 do not include air filter.



DUCT INVERTER SPLIT GREAT CAPACITY

MUCHR-H6A Series



KJR-29B1/BK-E
 Included
 (CL 92 869)



Mod. 28



Mods. 40/ 45/56



Mods. 28/40/45/56

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A (CL 92 868) RM02A/BGE-A (CL 92 867)

Wired remote control



KJR-86C-E (CL 92 870) KJR-12B/DP(T)-E (CL 94 848) KJR-120C/BW-E (CL 92 946)

Centralized controller



CCM30/BKE⁽²⁾ (CL 92 871) CCM15⁽²⁾ (CL 92 872)

Integral control



IMM4⁽²⁾ (CL 97 160-163)



CCM08/E⁽²⁾ (CL 92 915)



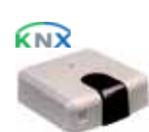
LONGW64/E⁽²⁾ (CL 92 877)



CCM18A/N⁽²⁾ (CL 94 791)



MD-AC-KNX⁽²⁾ (CL 99 094-095)



IS-IR-KNX-1i (CL 99 096)

BMS

WIFI



TADO° (CO 14 910)



MOMIT COOL (CO 28 130)



KJR-150A/M-E⁽²⁾ (CL 97 156)



KJR-32B (CL 92 880)



CCM02/E (CL 92 912)



DTS634 / DTS636 (CL 92 882)

Accessories

⁽¹⁾ Except models. 40 to 56.

⁽²⁾ 28 Unit occupies two addresses (counts for 2 units).

The units from 40 to 56 occupy four addresses (count for 4 units).

MUCHR-H6A Series

TECHNICAL SPECIFICATIONS

MODEL			MUCHR-28-H6A	MUCHR-40-H6A	MUCHR-45-H6A	MUCHR-56-H6A
Code			CL 23 907	CL 23 909	CL 23 910	CL 23 911
Cooling ⁽¹⁾	Capacity	kW	27.50	39.32	44.23	54.40
		Kcal/h	23,653	33,820	38,043	46,790
	Consumption	kW	7.02	12.00	13.68	17.91
	EER	kW	3.92	3.28	3.23	3.04
Heating ⁽²⁾	Capacity	kW	28.24	40.63	45.15	57.48
		Kcal/h	24,290	34,946	38,834	49,439
	Consumption	kW	6.74	12.08	13.57	18.69
	COP	kW	4.19	3.36	3.33	3.08
Indoor unit	MVD model-		280T1/DHN1-B	D400T1/N1	D450T1/N1	D560T1/N1
	Code		CL23383	CL23184	CL23185	CL23186
	Power supply	F, V, Hz	1N-, 220-240V, 50Hz			
	Max. current	A	6	12.5	12.5	15.5
	Air Flow (High / Medium / Low)	m ³ /h	4.820/4.660/4.620	7.474/6.072/4.995	7.474/6.072/4.995	9.550/7.950/6.600
	Static pressure available	Pa	62 (40 – 200)	200 (50 – 280)	200 (50 – 280)	200 (50 – 280)
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	57 / 53 / 50	61 / 59 / 56	61 / 59 / 56	63 / 60 / 57
	Dimensions (W x H x D)	mm	1450x505x925	1970x668x902.5	1970x668x902.5	1970x668x902.5
	Weight	kg	108	232	232	232
	Drain connection	mm	Ø32	Ø32	Ø32	Ø32
	Power cable ⁽⁵⁾	mm ²	2 x 2.5 + T	2 x 4 + T	2 x 4 + T	2 x 4 + T
	Outdoor Unit	MVD model-		V5X280W/V2GN1	V5X400W/V2GN1	V5X450W/V2GN1
Code		CL23301	CL23303	CL23304	CL23306	
Power supply		F, V, Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz
Max. current		A	21.00	27.30	29.90	41.20
Air flow rate		m ³ /h	12,000	14,000	14,000	16,000
Static pressure available		Pa	20 (0 – 40)	20 (0 – 40)	20 (0 – 40)	20 (0 – 40)
Sound pressure ⁽⁴⁾		dB(A)	59	62	62	63
Dimensions (W x H x D)		mm	990 x 1635 x 790	1340 x 1635 x 790	1340 x 1635 x 790	1340 x 1635 x 790
Weight		kg	219	315	315	340
Power cable ⁽⁵⁾		mm ²	4 x 6 + T	4 x 10 + T	4 x 10 + T	4 x 16 + T
Refrigerant	Type		R410A	R410A	R410A	R410A
	Preloaded amount	kg	9.0	13.0	13.0	16.0
	Additional load (from 0 m)	kg/m	0.057	0.110	0.110	0.170
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")
	Gas Line	mm (inches)	22.2 (7/8")	28,6 (1 1/8")	28,6 (1 1/8")	28,6 (1 1/8")
Pipe length ⁽⁶⁾	Max. Vertical	m	110	110	110	110
	Total	m	175	175	175	175
Communication cable		mm ²	3 x 0,75 (shielded)			
Remote control	Model		KJR-29B	KJR-29B	KJR-29B	KJR-29B
	Type		Wiring	Wiring	Wiring	Wiring
Temp. Range Operation	Cooling	°C	-5 to 48	-5 to 48	-5 to 48	-5 to 48
	Heating	°C	-20 to 24	-20 to 24	-20 to 24	-20 to 24

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.3 m height.

⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

⁽⁶⁾ Pipe length when outdoor unit is lower installed than the indoor units. Otherwise instead of 110 m is 90 m.

Caution: - Before starting up the equipment (and without supply), you have to configure the whole micro-switch S6 in OFF position in the outdoor unit.

- Models 40, 45 and 56 do not include air filter.



FLOOR STANDING TYPE MUCO-H6 Series



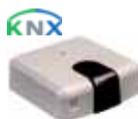
YB1F2
Included
(CL 96 462)



OPTIONALS

More information of optionals
in the section "CONTROL SYSTEMS"

BMS



IS-IR-KNX-1i
(CL 99 096)

WIFI



TADO®
(CO 14 910)



MOMIT COOL
(CO 28 130)



TECHNICAL SPECIFICATIONS **MUCO-H6 Series**

Model			MUCO-48-H6T	MUCO-60-H6T		
Code			CL 20 390	CL 20 391		
Cooling	Nominal capacity		kW	12.31	15.00	
	Nominal consumption (max.)		kW	4.9 0 (6.40)	6.00 (7.00)	
	EER		W/W	2.51	2.50	
Heating	Nominal capacity		kW	12.31	17.50	
	Nominal consumption (max.)		kW	4.40 (5.80)	5.85 (8.00)	
	COP		W/W	2.80	2.99	
Indoor unit	Air flow rate (Super High/ High / Medium / Low)		m ³ /h	1,950/1,900/1,700/1,530	2,000/1,900/1,700/1,530	
	Sound pressure (Super High/ High / Medium / Low)		dB(A)	55 / 53 / 49 / 45	52 / 50 / 46 / 44	
	Sound power (Super High/ High / Medium / Low)		dB(A)	65 / 63 / 59 / 55	62 / 60 / 56 / 54	
	Auxiliary electrical resistance ⁽¹⁾	Power	kW	2.50	2.50	
	Power supply ⁽²⁾		V-Hz-Ph	380-415V~ 50Hz, 3F	380-415V~ 50Hz, 3F	
	Power cable ⁽²⁾		mm ²	4 x 2.5 + T	4 x 2.5 + T	
	Dimensions (Width x Height x Depth)		mm	518 x 1870 x 395	518 x 1870 x 395	
	Weight		kg	58	61	
Outdoor unit	Air flow (High)		m ³ /h	3,600	3,600	
	Fans	Type / Amount		Axial / 1	Axial / 2	
		Amount		1	2	
	Sound pressure (High)		dB(A)	59	62.0	
	Sound power (High)		dB(A)	69	72	
	Compressor (Brand / Model)			SANYO / C-SBP160H38C	SANYO / C-SBP185H38A	
	Power supply		V-Hz-Ph	380-415V~ 50Hz, 3Ph	380-415V~ 50Hz, 3Ph	
	Power supply cable		mm ²	4 x 6 + T	4 x 6 + T	
	Dimensions (Width x Height x Depth)		mm	1018 x 840 x 412	1032 x 1250 x 412	
Weight		kg	90	114		
Whole set	Communication cable ⁽³⁾	5 wire cable (length)		m	Including (5 m)	Including (5 m)
		4 wire cable (length)		m	Including (5 m)	Including (5 m)
	Refrigerant	Type			R410A	R410A
		Load		kg	3.1	4.3
		Preload until		m	5	5
		Additional load (from 5 m)		g/m	100	100
	Connection pipes	Liquid / Gas		mm (inches)	Ø12.7 / Ø19 (1/2" / 3/4")	Ø12.7 / Ø19 (1/2" / 3/4")
		Max. Length		m	30	30
		Max. Drop Height		m	20	20
	Operation temperature	Indoor (Cool. / Heat.)		°C	16 ~ 30 / 16 ~ 30	16 ~ 30 / 16 ~ 30
Outdoor (Cool. / Heat.)		°C	18 ~ 43 / -7 ~ 24	18 ~ 43 / -7 ~ 24		

Notes:

⁽¹⁾ For consumption data indicated it is not taken into account that auxiliary heater only works if manually activated. If the auxiliary heater is activated in heating mode, consumption will be higher than 2.5 kW.

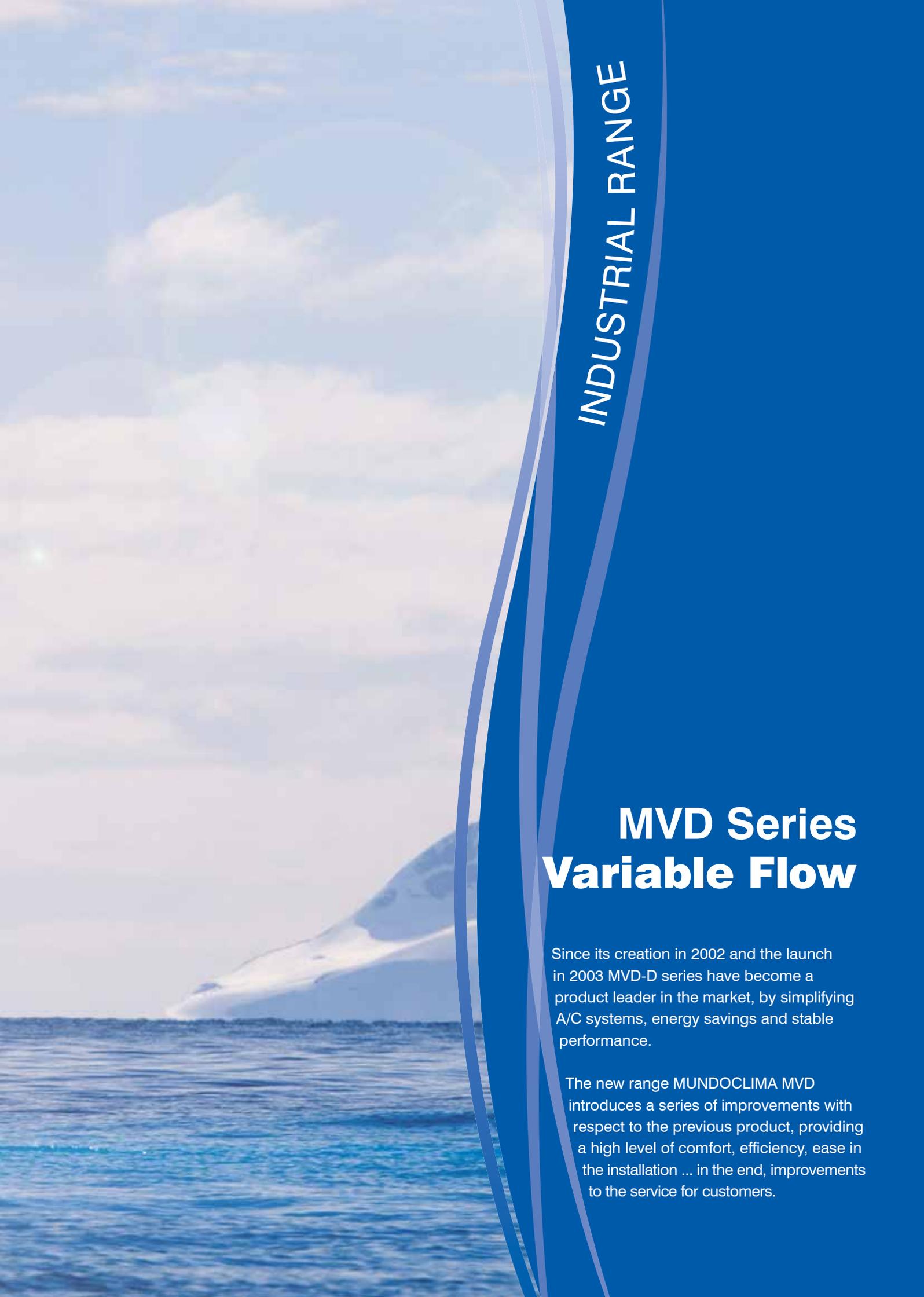
⁽²⁾ If indoor unit does not receive power supply through the outdoor unit.

⁽³⁾ If the power of the indoor unit is supplied through the outdoor unit, it will be necessary an additional cable 4 x 5 + T (not included).

- The above design and specifications are subject to change of product improvement without prior notice.

- The values of noise level match with values obtained in the anechoic chamber.





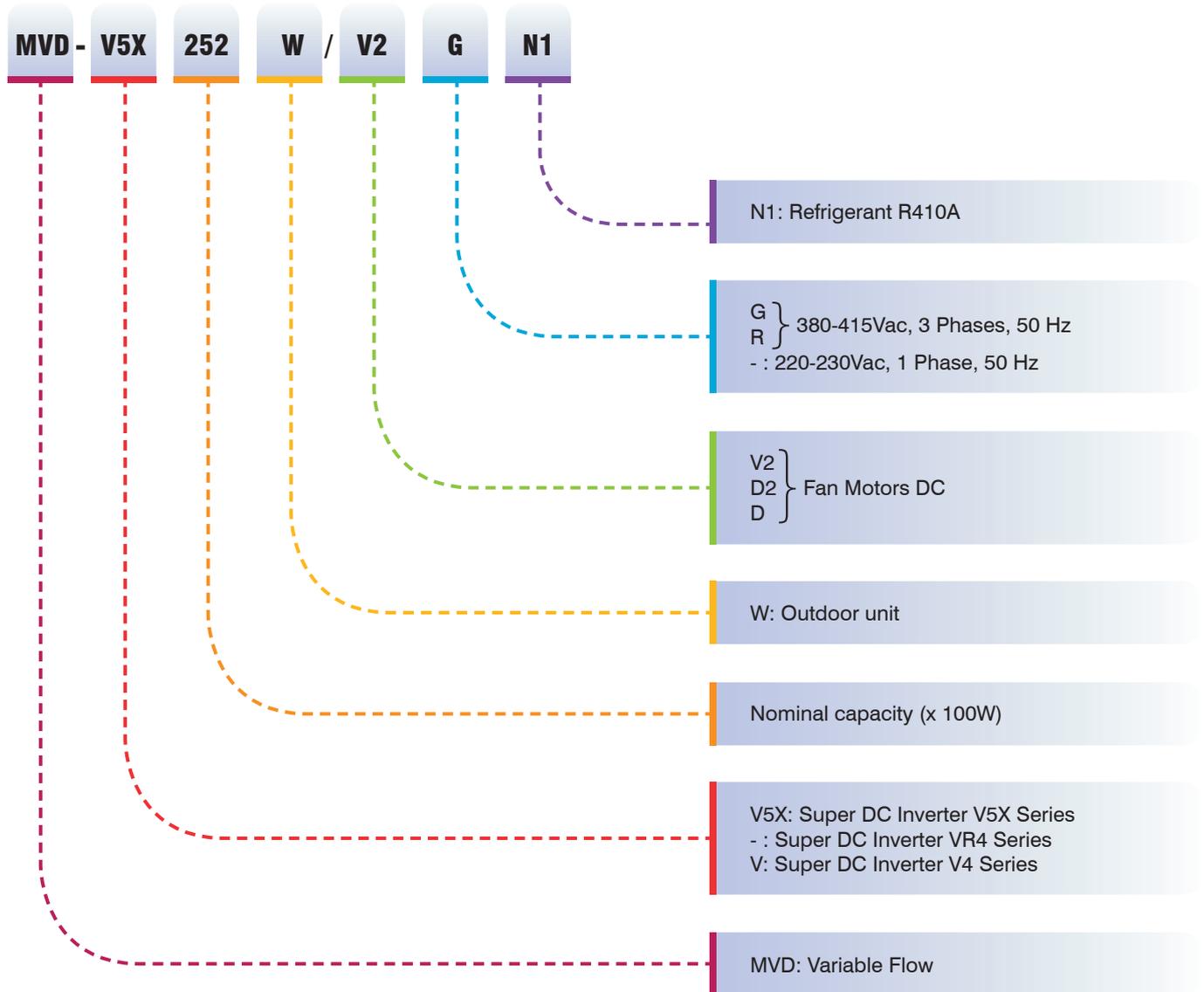
INDUSTRIAL RANGE

MVD Series Variable Flow

Since its creation in 2002 and the launch in 2003 MVD-D series have become a product leader in the market, by simplifying A/C systems, energy savings and stable performance.

The new range MUNDOCLIMA MVD introduces a series of improvements with respect to the previous product, providing a high level of comfort, efficiency, ease in the installation ... in the end, improvements to the service for customers.

Outdoor Units MVD Names



Outdoor Units MVD Range of Products

Series	Capacity (kW)																
	8	10	12	14	16	18	20	22.4	25.2	26	28	33.5	40	45	50	56	61.5
OUTDOORS																	
	MINI MVD V4+ (2 pipes)	■	■	■	■	■	■	■	■	■				■	■		
	MAXI MVD V5X (2 pipes)											■	■	■	■	■	■
	MAXI MVD VR4 (3 pipes)											■	■	■	■		

Note: For higher powers, up to 4 MAXI MVD units of the same series can be combined.



OUTDOOR UNITS

Mini series MVD V4+

Super DC Inverter (up to 45 kW)

WIDE RANGE CAPACITY

The new Mini Inverter MVD V4 + units offer a wide range of capacities, from 8kW to 45kW, which offer the possibility of connecting from 4 to 14 units respectively.

Note: For outdoor units with power below 20 kW, when two or more units are connected, the maximum power of each indoor unit can not exceed 8 kW.

Model	Max. quantity indoor unit
80	4
105	5
120	6
140	6
160	7
180	9
200	10
224	11
260	12
400/450	14



COMPRESSOR AND FAN MOTORS DC INVERTER

All range equipments include compressors and fan motors DC Inverter, in this way the performance for medium frequency system is improved and a in ensures a more sensitive and effective control.



SAVE OF SPACE

The mini MVD drives are more compact, which means a significant saving of space required for its installation. They are especially suitable for small offices, hotels, shops, etc.



SIMPLIFIED COMMUNICATION CONNECTION

The installation of the communication wiring is simpler because in case you need to install a centralized control, it is not necessary to wire a second communication bus between the indoor units and the central control. You can connect the central control directly to the outdoor unit and perform manual routing for the control to detect all indoor units connected to that outdoor unit. Subsequently we can modify the addresses manually with the individual control of each equipment.



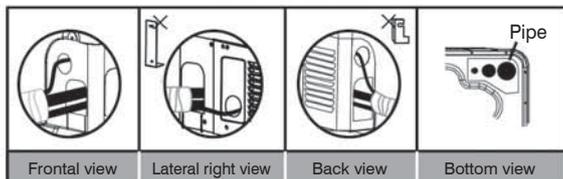
AUTO ROUTING

The outdoor unit can assign address to the indoor units automatically. Wireless controls and wiring KJR-29B, can also configure, query and modify the addresses of the indoor units.

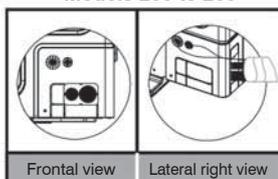


EASY PIPE CONNECTION

80 to 180 models



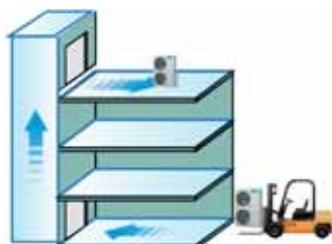
Models 200 to 260



It offers four possibilities for pipes and cables connection to satisfy the different needs of installation.

EASY INSTALLATION

The mini MVD can be transported by a forklift. Its small size greatly facilitates installation and effectively reduces the time and the necessary personnel.



EASY SERVICE

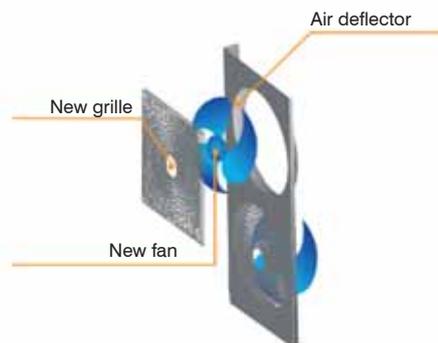
The forced cooling button causes the outdoor unit to operate in cooling mode in any state, so it is very easy to load refrigerant into the system when needed. The self-diagnosis function detects malfunctions at the main system locations and displays the type of error and its location. This allows more efficient servicing and maintenance operations.



Mini series MVD V4+

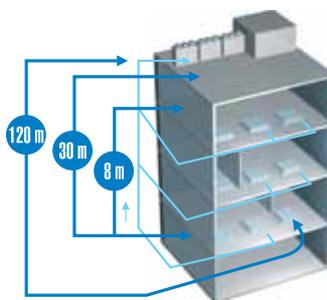
DESIGN FOR A LOW OPERATING SOUND DURING OPERATION

The optimal fan design and the new design of the outlet air grill and the baffle allow a higher air flow and a minor sound level during operation.



PIPE TOTAL LENGTH

Mini MVD V4+ system admits a maximum pipe length of 100 m (8 to 18 kW); 120 m (20, 22 and 26 kW), 250 m (40 and 45 kW). With a height difference of 20 m or even 30 m in case the outdoor unit is installed lower than the indoor units.



- 120 m:** Maximum equivalent length between the outdoor unit and the furthest indoor unit (at 40 and 45 kW); 70 m (12 to 26 kW), 50 m (8 and 10 kW).
- 30 m:** Difference of maximum height between indoor and outdoor unit.
- 8 m:** Maximum height difference among indoor units.

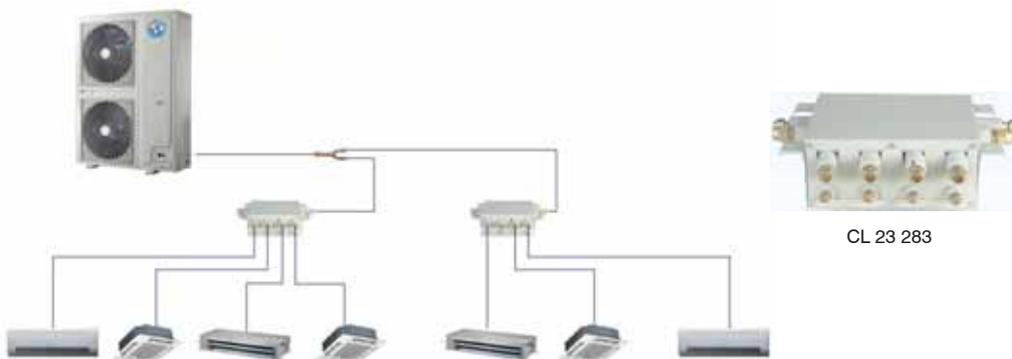
		SINGLE-PHASE UNITS Maximum value (m)	THREE-PHASE UNITS Maximum value (m)	
PIPE LENGTH	Pipe total length	100	100 / 120 (for 20, 22.4 and 26 kW) 250 (for 40 et 45 kW)	
	Max. distance (L) (between outdoor ut. and farthest indoor ut.)	Total length	45 (80 and 105 models) 60 (120 to 160 models)	60 / 100 (for 40 and 45 kW)
		Equivalent length	50 (80 and 105 models) 70 (120 to 160 models)	70 / 120 (for 40 and 45 kW)
	Equivalent pipe length between the furthest interior and the first distributor.		20	20 / 40 (for 40 and 45 kW)
	Equivalent pipe length between the indoor unit and the nearest distributor.		15	15
HEIGHT DIFFERENCE	Height difference between indoor and outdoor units	Unit Higher outdoor unit	20	
		Unit Lower outdoor unit	30	
	Height difference between indoor units		8	8

Mini series MVD V4+

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Distribution box

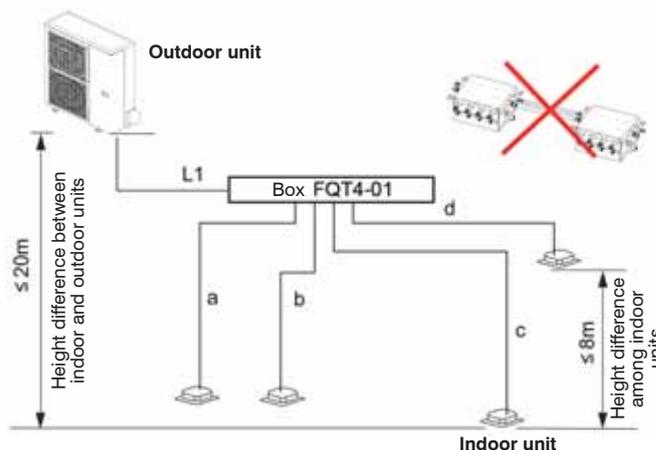
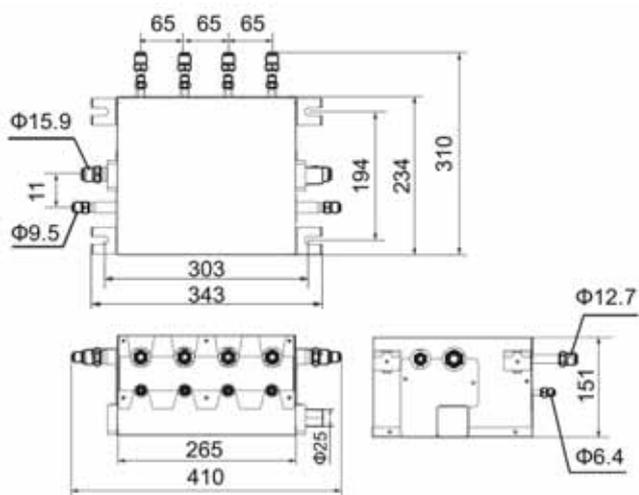


It's possible to realize the refrigerating installation through distributions boxes of 4 exits. It reduces the amount of weldings to perform.

- Flare connections (Outdoor unit side 3/8"-5/8" And indoor unit side 1/4 "-1/2"). Two adapter kits from 1/4" to 3/8" and two others from 1/2" to 5/8" are built-in the box.
- The distribution box doesn't need power supply. However it has to be connected to the drain in order to remove the water.

Note: Only suitable with outdoor units Mini MVD from 8 to 26 kW.

		Max. value	Pipe	
PIPE LENGTH	Total pipe length/ vertical	≤100 m	L1+a+b+c+d	
	Maximum pipe length	≤45m	L1+a, L1+b, L1+c, L1+d	
	Pipe length (from distribution box to an indoor unit)	≤20 m	a, b, c, d	
HEIGHT DIFFERENCE	Height difference between indoor units and the outdoor unit	Outdoor unit upward	≤20 m	-
		Lower outdoor unit	≤20 m	-
	Height difference between indoor units	≤8 m	-	-



Note: The maximum pluggable capacity to a box output is 7.1 kW. The distribution boxes can not be connected in series.

Box AHUKZ-B⁽¹⁾



AHUKZ-B (LC 23 013-015)

Wattmeter⁽²⁾



DTS634 / DTS636 (CL 92 882)

Connection module Wattmeter⁽³⁾



MD-NIM10 (CL 94 836)

Alarm signal



KJR-32B (CL 92 880)

EU central control



CCM02/E (CL 92 912)

⁽¹⁾ Only for Mini > 19 kW.

⁽²⁾ In Mini up to 18 kW with MD-NIM10 (CL 94 836).

⁽³⁾ Only needed in Mini up to 18 kW.

TECHNICAL SPECIFICATIONS (SINGLE PHASE UNITS)

Mini series MVD V4+

Model			MVD-V80W /DN1	MVD-V105W /DN1	MVD-V120W /DN1	MVD-V140W /DN1	MVD-V160W /DN1(B)
Code			CL 23 260	CL 23 261	CL 23 262	CL 23 263	CL 23 264
Power supply		F, V, Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz
Cooling ⁽¹⁾	Capacity	kW	7.20 (1.5-8)	9.00 (2 – 10)	12.30	14.00	15.50
	Power consumption	kW	1.82 (0.71-1.80)	2.3 (0.89 – 2.59)	3.25	3.95	4.52
	EER/SEER (EN14825)			3.95 / 5.10	3.91 / 5.30	3.78 / 7.10	3.54 / 6.68
Heating ⁽²⁾	Capacity	kW	7.2 (1.6-8.4)	9.0 (2.1 – 10)	13.20	15.40	17.00
	Power consumption	kW	1.76 (0.83-2.11)	2.27 (1.06-2.77)	3.47	4.16	4.77
	COP/SCOP (EN14825)			4.09 / 3.80	3.97 / 3.80	3.80 / 4.11	3.70 / 3.96
Max. current		A	18.50	22.80	24.40	29.80	30.00
Connectivity	Connecting capacity	%	45 - 130	45 - 130	45 - 130	45 - 130	45 - 130
	Max. quantity Unit Indoor		4	5	6	6	7
Compressor	Brand		Mitsubishi Electric				
	Type		DC Inverter - rotating				
	Amount		1	1	1	1	1
	Model		TNB220FLHMC		TNB306FPGMC		LNB42FSCMC
Fan	Type		DC	DC	DC	DC	DC
	Amount		1	1	2	2	2
	Model		WZDK170-38G-1		WZDK100-38G		
	Air flow rate		m ³ /h	5,500	5,500	6,000	6,000
Sound pressure ⁽³⁾		dB(A)	56	57	57	57	57
Dimensions	Net (W x H x D)		990x966x336			900x1327x320	
	Gross (W x H x D)		1120x1015x435			1030x1456x435	
Weight	Net		kg	75.5	75.5	95.0	100.0
	Gross		kg	85.5	85.5	106.0	111.0
Refrigerant	Type		R410A		R410A	R410A	R410A
	Amount		kg	2.95	2.95	3.3	3.9
Design pressure	High		Mpa	4.40	4.40	4.40	4.40
	Low		Mpa	2.60	2.60	2.60	2.60
Pipe length ⁽⁴⁾	Max. Vertical		m	20	20	20	20
	Total		m	100	100	100	100
Connection pipes ⁽⁵⁾	Liquid Line		mm	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Line		mm	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	19.1 (3/4")
Electrical connections ⁽⁶⁾	Power wiring / ICP		mm ² /A	2 x 6 + T / 25		2 x 6 + T / 30	2 x 10 + T / 35
	Signal wiring		mm ²	3 x 0,75 (shielded)			
Operation Temp. Range Operation	Cooling		°C	-15 to 43	-15 to 43	-15 to 43	-15 to 43
	Heating		°C	-15 to 27	-15 to 27	-15 to 27	-15 to 27

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 5 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1 m height.

⁽⁴⁾ Pipe length when outdoor unit is higher installed than the indoor units. Otherwise the maximum distance in vertical can reach 30 m.

⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must of this diameter.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

SPECIFICATIONS (THREE-PHASE)

Mini series MVD V4+

Model			MVD-V120W /DRN1	MVD-V140W /DRN1	MVD-V160W /DRN1	MVD-V180W /DRN1	MVD-V200W /DRN1	MVD-V224W /DRN1	MVD-V260W /DRN1	
Code			CL 23 265	CL 23 266	CL 23 267	CL 23 268	CL 23 269	CL 23 270	CL 23 271	
Power supply		F, V, Hz	3N-, 400V, 50Hz							
Cooling ⁽¹⁾	Capacity	kW	12.30	14.00	15.50	17.50	20.00	22.40	26.00	
	Power consumption	kW	3.25	3.95	4.52	5.30	6.10	6.80	7.60	
	EER/SEER (EN14825)			3.78/7.10	3.54/6.68	3.43/6.42	3.30/6.21	3.28/6.19	3.29/6.21	3.42/6.42
Heating ⁽²⁾	Capacity	kW	13.20	15.40	17.00	19.00	22.00	24.50	28.50	
	Power consumption	kW	3.47	4.16	4.77	5.00	6.10	5.90	6.80	
	COP/SCOP (EN14825)			3.80/4.11	3.70/3.96	3.56/3.83	3.80/3.92	3.61/3.76	4.15/3.97	4.19/4.05
Max. current		A	10.00	11.00	12.00	12.50	14.50	17.20	18.70	
Connectivity	Connecting capacity	%	45 - 130	45 - 130	45 - 130	45 - 130	45 - 130	45 - 130	45 - 130	
	Max. quantity Unit Indoor		6	6	7	9	10	11	12	
Compressor	Brand		Mitsubishi Electric							
	Type		DC Inverter - rotating							
	Amount		1	1	1	1	1	1	1	
	Model		TNB306FPNMC		LNB42FSAMC			LNB53FCAMC		
Fan	Type		DC	DC	DC	DC	DC	DC	DC	
	Amount		2	2	2	2	2	2	2	
	Model		WZDK100-38G				WZDK170-38-G-1			
	Air flow rate		m ³ /h	6,000	6,000	6,000	6,800	10,999	10,494	10,494
Sound pressure ⁽³⁾		dB(A)	57	57	57	59	59	59	60	
Dimensions	Net (W x H x D)		900 x 1327 x 320				1120 x 1558 x 414			
	Gross (W x H x D)		1030 x 1456 x 435				1270 x 1720 x 565			
Weight	Net		95.0	95.0	102.0	107.0	137.0	146.5	147.0	
	Gross		103.0	103.0	113.0	118.0	153.0	165.5	163.0	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Amount		kg	3.3	3.9	3.9	4.5	4.8	6.2	6.2
Design pressure	High		Mpa	4.40	4.40	4.40	4.40	4.40	4.40	
	Low		Mpa	2.60	2.60	2.60	2.60	2.60	2.60	
Pipe length ⁽⁴⁾	Max. Vertical		m	20	20	20	20	20	20	
	Total		m	100	100	100	100	120	120	
Connection pipes ⁽⁵⁾	Liquid Line		mm 9.52 (3/8")							
	Gas Line		mm	15.9 (5/8")			19.1 (3/4")		22.2 (7/8")	
Electrical connections ⁽⁶⁾	Power wiring / ICP		mm ² /A	4 x 4 + T / 15				4x6 + T/20	4x6 + T/25	
	Signal wiring		mm ²	3 x 0,75 (shielded)						
Operation Temp. Range	Cooling		°C	-15 to 43	-15 to 43	-15 to 43	-15 to 43	-15 to 46	-15 to 46	-15 to 46
	Heating		°C	-15 to 27	-15 to 27	-15 to 27	-15 to 27	-15 to 24	-15 to 24	-15 to 24

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 5 m and a height difference of 0 m.

⁽³⁾ Sound level measured in semi-anechoic chamber at 1 m front distance and 1.2 m height (1.3 m for models from 20 to 26 kW).

⁽⁴⁾ Pipe length when outdoor unit is higher installed than the indoor units. Otherwise the maximum distance in vertical can reach 30 m.

⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must of this diameter.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

SPECIFICATIONS (THREE-PHASE) **Mini series MVD V4+**

Model			MVD-V400W/ DRN1	MVD-V450W/ DRN1
Code			CL 23 272	CL 23 273
Power supply		F, V, Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz
Cooling ⁽¹⁾	Capacity	kW	40.00	45.00
	Power consumption	kW	11.90	13.60
	EER/SEER (EN14825)		3.35/6.26	3.32/6.20
Heating ⁽²⁾	Capacity	kW	45.00	50.00
	Power consumption	kW	11.10	12.70
	COP/SCOP (EN14825)		4.05/5.33	3.93/5.20
Max. current		A	33.00	44.00
Connectivity	Connecting capacity	%	45 - 130	45 - 130
	Max. quantity Unit Indoor		14	14
Compressor	Brand		Mitsubishi Electric	Mitsubishi Electric
	Type		DC Inverter - rotating	DC Inverter - rotating
	Amount		2	2
	Model		LNB42FSAMC	LNB53FCAMC
Fan	Type		DC	DC
	Amount		2	2
	Model		WZDK560-38G(B)	WZDK560-38G(B)
	Air flow rate	m ³ /h	16,575	16,575
Sound pressure ⁽³⁾		dB(A)	62	62
Dimensions	Net (W x H x D)	mm	1360 x 1650 x 540	1460 x 1650 x 540
	Gross (W x H x D)	mm	1450 x 1785 x 560	1550 x 1785 x 560
Weight	Net	kg	240	275
	Gross	kg	260	290
Refrigerant	Type		R410A	R410A
	Amount	kg	9.0	12.0
Design pressure	High	Mpa	4.40	4.40
	Low	Mpa	2.60	2.60
Pipe Length ⁽⁴⁾	Max. Vertical	m	20	20
	Total	m	250	250
Connection pipes ⁽⁵⁾	Liquid Line	mm (inches)	12.7 (1/2")	12.7 (1/2")
	Gas Line	mm (inches)	22.2 (7/8")	25.4 (1")
Electrical connections ⁽⁶⁾	Power wiring / ICP	mm ² /A	4 x 16 + T/ 40	4 x 16 + T / 50
	Signal wiring	mm ²	3 x 0,75 (shielded)	3 x 0,75 (shielded)
Operation Temp. Range	Cooling	°C	-5 to 48	-5 to 48
	Heating	°C	-15 to 24	-15 to 24

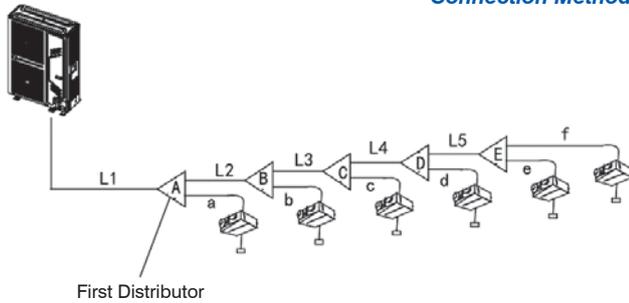
Notes:

- ⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 5 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 5 m and a height difference of 0 m.
- ⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.2 m height.
- ⁽⁴⁾ Pipe length when outdoor unit is higher installed than the indoor units. Otherwise the maximum distance in vertical can reach 30 m.
- ⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must of this diameter.
- ⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

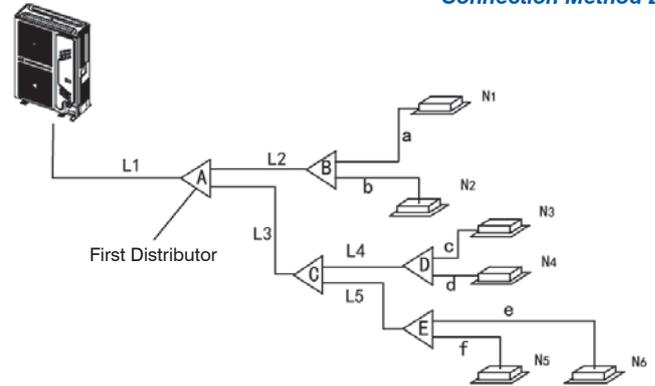
Mini series MVD V4+

SELECTION OF REFRIGERANT PIPES FOR THE MINI MVD V4 +

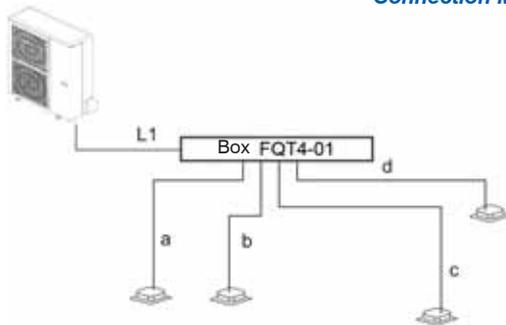
Connection Method 1



Connection Method 2



Connection Method 3



Note:
In connection methods 1 and 2, if the distance between the first distributor and the farthest indoor unit is greater than 15m, the connection method 2 must be chosen. The distance between the indoor unit and the nearest distributor must be less than 15 m.

DIAMETERS OF THE MAIN PIPE (L1) AND FIRST DISTRIBUTOR (a)

Outdoor Unit Capacity	Total Pipe <90 m			Total pipe ≥ 90 m		
	Liquid	Gas	First Distributor	Liquid	Gas	First Distributor
TO < 16	9.5 (3/8")	15.9 (5/8")	FQZHN-01D	9.5 (3/8")	19.1 (3/4")	FQZHN-01D
16 A < 23	9.5 (3/8")	19.1 (3/4")	FQZHN-01D	9.5 (3/8")	22.2 (7/8")	FQZHN-02D
23 ≤ to < 33	9.5 (3/8")	22.2 (7/8")	FQZHN-02D	9.5 (3/8")	25.4 (1")	FQZHN-03D
33 ≤ to < 46	12.7 (1/2")	28,6 (1 1/8")	FQZHN-03D	12.7 (1/2")	28,6 (1 1/8")	FQ7HN-03D
46 ≤ to	15.9 (5/8")	28,6 (1 1/8")	FQ7HN-03D	15.9 (5/8")	28,6 (1 1/8")	FQZHN-03D

A = Total capacity of the outdoor unit (kW).

PIPE DIAMETERS (L2 ~ L5) AND DISTRIBUTORS (b ~ e)

Maximum indoor unit capacity	Pipe		First Distributor
	Liquid	Gas	
TO < 16.6	9.5 (3/8")	15.9 (5/8")	FQZHN-01D
16.6 ≤ to < 23	9.5 (3/8")	19.1 (3/4")	FQZHN-01D
23 ≤ to < 33	9.5 (3/8")	22.2 (7/8")	FQZHN-02D
33 ≤ to	12.7 (1/2")	25.4 (1")	FQZHN-03D

A = Total Capacity (kW) of indoor units connected from that distributor.

PIPE DIAMETERS (a ~ f) FOR INDOOR UNITS

Capacity (kW)	Pipe	
	Liquid	Gas
to ≤ 4.5	6.4 (1/4")	12.7 (1/2")
4.5 < to ≤ 16	9.5 (3/8")	15.9 (5/8")
16 < to ≤ 18	9.5 (3/8")	19.1 (3/4")
18 < to	9.5 (3/8")	22.2 (7/8")

A = Capacity (kW) of the unit. Indoor.



OUTDOOR UNITS
Maxi Series MVD V5X 2 pipes
Super DC Inverter (up to 246 kW)



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

AHUKZ-B Box

Wattmeter

Alarm signal

EU central control



AHUKZ-B
(LC 23 013-015)



DTS634 / DTS636
(CL 92 882)



KJR-32B
(CL 92 880)



CCM02/E
(CL 92 912)

INNOVATIVE DESIGN

Maxi Series MVD V5X 2 pipes



8 / 10 / 12 HP



14 / 16 / 18 / 20 / 22 HP

WIDE RANGE CAPACITY

The new modular Super DC Inverter Maxi MVD V5X system consists of 8 basic modules that can be combined up to 4 of them as the customer wishes. They form a total system capacity that can go from 8 to 88 HP (246 kW) in increments of 2 HP.

In total up to 64 indoor units can be connected and its total capacity indoors should not exceed 130 % of the outdoor unit capacity.

8 / 10 / 12 / 14 / 16 / 18 / 20 / 22 HP

Max. 88HP



MAX. EFFICIENCY WITH A SEER UNIT UP TO 8.25

Thanks to the new design of the heat exchanger with three rows, the exchange surface has increased up to 21%.

SUPER DC INVERTER TECHNOLOGY

All compressors and fan motors are DC Inverter, in this way performance is improved in medium frequencies and it ensure a more sensitive and effective control.



AUTO ROUTING

The outdoor unit can assign address to the indoor units automatically. Individual wireless controls and wiring KJR-29B, can also configure, query and modify the addresses of the indoor units.

ACCURATE TEMPERATURE CONTROL

Thanks to the advantages of MVD systems, maximum performance and comfort can be quickly achieved by shortening the heating and cooling times.

QUICK DEFROSTING

Time reduction technology of the defrost time is added.

LOW SOUND LEVEL

The new optimized design of the fans allows to reduce the sound, in addition with the night mode it can be established a night period where the sound reduction is even greater.

ROTATION & BACKUP

In a modular system, thanks to the rotation function every unit can be started as master unit, therefore, all compressors will work the same amount of hours. In the event of a problem and one of the modules showing an error code (E*), the "Backup" function resets the equipment with the problem and starts the next module of the rotation. For example, if there is a problem in slave unit 1, it will be put on hold and the other units will continue operation.

	Master	Slave 1	Slave 2
Sequence 1	1	2	3
Sequence 2	3	1	2
Sequence 3	2	3	1



Maxi Series MVD V5X 2 pipes



TOTAL COMPATIBILITY

Compatible with all MVD indoor units.

PRIORITY AND MODE LOCK

The system allows blocking or prioritizing one mode of operation with regard to others. We can choose between:

- Heating mode priority (by default).
- Cooling mode priority.
- VIP priority, the indoor unit with address N° 63. determines the mode of operation.
- Only heating
- Only cooling

CONFIGURABLE STATIC PRESSURE (UP TO 40 Pa)

The available static fan pressure can be increased by simply activating a micro-switch on the control board of the outdoor unit.

SIMPLIFIED CONNECTION

The installation of the communication wiring is simpler because in case you need to install a centralized controller it is not necessary to wire a second communication bus between the indoor units and the central controller. The central controller can be connected directly to the outdoor unit.



Maxi Series MVD V5X 2 pipes

EASY SERVICING

The forced cooling button causes the outdoor unit to operate in cooling mode in any state, so it is very easy to load refrigerant into the system when needed. The self-diagnosis function detects malfunctions and displays the type of error and its location. This allows more efficient servicing and maintenance operations.



PIPE TOTAL LENGTH

The Maxi MVD V5X system supports a maximum pipe length of 1000 m and a height difference of 90 m or even 110 m in case the outdoor unit is installed lower than the indoor units.

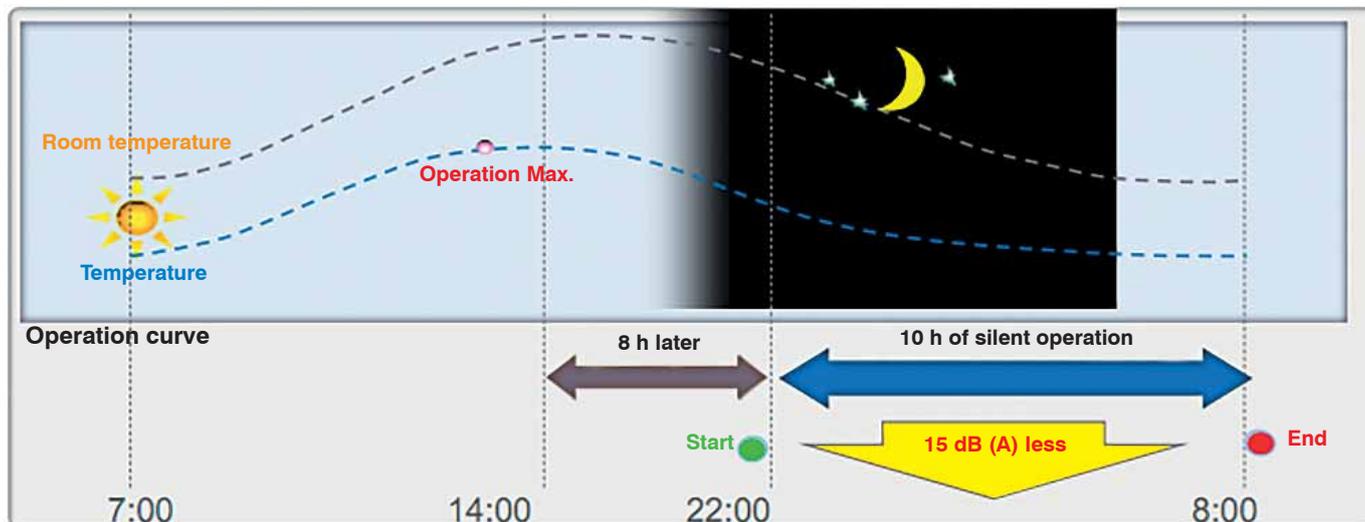
			Max. value (m)
PIPE LENGTH	Pipe total length		1,000
	Max distance (L)	Total length	175
		Equivalent length	200
	Equivalent pipe length between the furthest interior and the first distributor.		
HEIGHT DIFFERENCE	Height difference between indoor and outdoor units.	Unit Higher outdoor unit	90
		Unit Lower outdoor unit	110
	Height difference between indoor units		

*When the length exceeds 40 m, it will be necessary to modify the diameters (refer to the installation manual).

NIGHT MODE

Possibility of establishing night schedules in which is possible to reduce the sound level. There are four different reduction levels.

Mode	Sound level
Normal mode	According to normal operation
Silent mode	8 dB (A) less
Super quiet mode	12 dB(A) less
Night mode (by default)	15 dB (A) less



TECHNICAL SPECIFICATIONS **Maxi Series MVD V5X 2 pipes**

Model			MVD-V5X252W/ V2GN1	MVD-V5X280W/ V2GN1	MVD-V5X335W/ V2GN1	MVD-V5X400W/ V2GN1
Code			CL 23 300	CL 23 301	CL 23 302	CL 23 303
Power supply		F, V, Hz	3N-,400V, 50Hz			
Cooling ⁽¹⁾	Capacity	kW	25.2	28	33.5	40
	Power consumption	kW	5.36	6.22	7.79	9.30
	EER / SEER (EN14825)			4.70 / 8.25	4.50 / 7.9	4.30 / 7.54
Heating ⁽²⁾	Capacity	kW	27	31.5	37.5	45
	Power consumption	kW	4.82	5.94	7.65	9.38
	COP / SCOP (EN14825)			5.6 / 6.52	5.3 / 6.35	4.9 / 6.13
Max. intensity		A	20.0	21.0	23.0	27.3
Connectivity	Pluggable capacity	%	50 - 130	50 - 130	50 - 130	50 - 130
	Max. quantity indoor ut.		13	16	20	23
Compressor	Brand		Hitachi			
	Type		DC Inverter			
	Amount		1	1	1	2
	Model Nº 1		E655DHD-65D2YG		E705DHD-72D2YG	E405DHD-42D2YG
	Model Nº 2		-	-	-	E405DHD-42D2YG
Fan	Type		DC			
	Amount		1	1	1	2
	Air flow rate	m ³ /h	12,000	12,000	12,000	14,000
	Static pressure	Standard	Pa	0 - 20	0 - 20	0 - 20
Adjustable		Pa	20 - 40	0 - 20	0 - 20	0 - 20
Sound pressure ⁽³⁾		dB(A)	58	59	60	62
Dimensions (W x H x D)		mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x790
Weight		kg	219	219	237	297
Refrigerant	Type		R410A			
	Amount		9	9	11	13
Pipe length	Max. vertical	Outdoor ut. up ⁽⁴⁾	90			
		Outdoor ut. down	110			
	Total		1000			
Connection pipes ⁽⁵⁾	Liquid Line	mm (inches)	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")
	Gas Line	mm (inches)	25.4 (1")	25.4 (1")	28,6 (1 1/8")	31,8 (1 1/4")
	Oil balance		mm (inches)	8 (5/16")		
Electrical connections ⁽⁶⁾	Power wiring / ICP	mm ² /A	4 x 6 + T / 25			4 x 10 + T / 30
	Signal wiring	mm ²	3 x 0.75 (Shielded)			
Operation Temp. Range	Cooling	°C	-5 to 48			
	Heating	°C	-20 to 24			

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB pipe length of 7.5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 7.5 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.3 m height.

⁽⁴⁾ In case of a height difference higher than 20 m it is recommended to install an oil trap every 10 m in the gas pipe.

⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must have this diameter.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

TECHNICAL SPECIFICATIONS

Maxi Series MVD V5X 2 pipes

Model			MVD-V5X450W/ V2GN1	MVD-V5X500W/ V2GN1	MVD-V5X560W/ V2GN1	MVD-V5X615W/ V2GN1	
Code			CL 23 304	CL 23 305	CL 23 306	CL 23 307	
Power supply		F, V, Hz	3N-,400V, 50Hz				
Cooling ⁽¹⁾	Capacity	kW	45	50	56	61.5	
	Power consumption	kW	10.98	12.82	14.51	16.44	
	EER / SEER (EN14825)			4.10 / 7.20	3.90 / 7.36	3.86 / 7.28	3.74 / 7.04
Heating ⁽²⁾	Capacity	kW	50	56	63	69	
	Power consumption	kW	10.87	13.18	15.29	17.12	
	COP / SCOP (EN14825)			4.6 / 5.82	4.25 / 5.67	4.12 / 5.5	4.03 / 5.25
Max. intensity		A	29.9	34.4	41.2	44.9	
Connectivity	Pluggable capacity	%	50 - 130	50 - 130	50 - 130	50 - 130	
	Max. quantity indoor ut.		26	29	33	36	
Compressor	Brand		Hitachi				
	Type		DC Inverter				
	Amount		2	2	2	2	
	Model Nº 1		E405DHD-42D2YG	E405DHD-36D2YG	E705DHD-72D2YG	E705DHD-72D2YG	
	Model Nº 2		E405DHD-42D2YG	E705DHD-72D2YG	E705DHD-72D2YG	E705DHD-72D2YG	
Fan	Type		DC				
	Amount		2	2	2	2	
	Air flow rate		m ³ /h	14,000	16,000	16,000	16,000
	Static pressure	Standard	Pa	0 - 20	0 - 20	0 - 20	0 - 20
Adjustable		Pa	20 - 40	20 - 40	20 - 40	20 - 40	
Sound pressure ⁽³⁾		dB(A)	62	63	63	63	
Dimensions (W x H x D)		mm	1340x1635x790	1340x1635x790	1340x1635x790	1340x1635x790	
Weight		kg	297	305	340	340	
Refrigerant	Type		R410A				
	Amount		kg	13		16	
Pipe length	Max. vertical	Outdoor ut. up ⁽⁴⁾	m				
		Outdoor ut. down	m				
	Total		m				
Connection pipes ⁽⁵⁾	Liquid Line		mm (inches)	15.9 (5/8")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
	Gas Line		mm (inches)	31,8 (1 1/4")	31,8 (1 1/4")	31,8 (1 1/4")	31,8 (1 1/4")
	Oil balance		mm (inches)	8 (5/16")			
Electrical connections ⁽⁶⁾	Power wiring / ICP		mm ²	4 x 10 + T / 35	4 x 16 + T / 40	4 x 16 + T / 50	
	Signal wiring		mm ²	3 x 0,75 (shielded)			
Operation Temp. Range	Cooling		°C	-5 to 48			
	Heating		°C	-20 to 24			

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, for a pipe length of 7.5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, for a pipe length of 7.5 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.3 m height.

⁽⁴⁾ In case of a height difference higher than 20 m it is recommended to install an oil trap every 10 m in the gas pipe.

⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must have this diameter.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

COMBINATIONS
Maxi Series MVD V5X 2 pipes

Model	Combinations (HP)	Capacity (HP)	Capacity (kW)		Max. quantity indoor unit
			Cooling	Heating	
MVD-V5X252W/V2GN1	8	8	25.2	27	13
MVD-V5X280W/V2GN1	10	10	28	31.5	16
MVD-V5X335W/V2GN1	12	12	33.5	37.5	20
MVD-V5X400W/V2GN1	14	14	40	45	23
MVD-V5X450W/V2GN1	16	16	45	50	26
MVD-V5X500W/V2GN1	18	18	50	56	29
MVD-V5X560W/V2GN1	20	20	56	63	33
MVD-V5X615W/V2GN1	22	22	61.5	69	36
MVD-V5X670W/V2GN1	12 + 12	24	67	75	39
MVD-V5X730W/V2GN1	10 + 16	26	73	81.5	43
MVD-V5X780W/V2GN1	10 + 18	28	78	87.5	46
MVD-V5X840W/V2GN1	10 + 20	30	84	94.5	50
MVD-V5X895W/V2GN1	10 + 22	32	89.5	100.5	53
MVD-V5X950W/V2GN1	12 + 22	34	95	106.5	56
MVD-V5X1000W/V2GN1	18 + 18	36	100	112	59
MVD-V5X1065W/V2GN1	16 + 22	38	106.5	119	63
MVD-V5X1115W/V2GN1	18 + 22	40	111.5	125	64
MVD-V5X1175W/V2GN1	20 + 22	42	117.5	132	64
MVD-V5X1230W/V2GN1	22 + 22	44	123	138	64
MVD-V5X1285W/V2GN1	12 + 12 + 22	46	128.5	144	64
MVD-V5X1345W/V2GN1	10 + 16 + 22	48	134.5	150.5	64
MVD-V5X1395W/V2GN1	10 + 18 + 22	50	139.5	156.5	64
MVD-V5X1455W/V2GN1	10 + 20 + 22	52	145.5	163.5	64
MVD-V5X1510W/V2GN1	10 + 22 + 22	54	151	169.5	64
MVD-V5X1565W/V2GN1	12 + 22 + 22	56	156.5	175.5	64
MVD-V5X1615W/V2GN1	18 + 18 + 22	58	161.5	181	64
MVD-V5X1680W/V2GN1	16 + 22 + 22	60	168	188	64
MVD-V5X1730W/V2GN1	18 + 22 + 22	62	173	194	64
MVD-V5X1790W/V2GN1	20 + 22 + 22	64	179	201	64
MVD-V5X1845W/V2GN1	22 + 22 + 22	66	184.5	207	64
MVD-V5X1900W/V2GN1	12 + 12 + 22 + 22	68	190	213	64
MVD-V5X1960W/V2GN1	10 + 16 + 22 + 22	70	196	219.5	64
MVD-V5X2010W/V2GN1	10 + 18 + 22 + 22	72	201	225.5	64
MVD-V5X2070W/V2GN1	10 + 20 + 22 + 22	74	207	232.5	64
MVD-V5X2125W/V2GN1	10 + 22 + 22 + 22	76	212.5	238.5	64
MVD-V5X2180W/V2GN1	12 + 22 + 22 + 22	78	218	244.5	64
MVD-V5X2230W/V2GN1	18 + 18 + 22 + 22	80	223	250	64
MVD-V5X2295W/V2GN1	16 + 22 + 22 + 22	82	229.5	257	64
MVD-V5X2345W/V2GN1	18 + 22 + 22 + 22	84	234.5	263	64
MVD-V5X2405W/V2GN1	20 + 22 + 22 + 22	86	240.5	270	64
MVD-V5X2460W/V2GN1	22 + 22 + 22 + 22	88	246	276	64

Capacities measured on the following conditions:

Cooling: Indoor: 27 °C DB, 19 °C WB / Outdoor: 35 °C DB, 24 °C WB.

Heating: 20 °C DB, 15 °C WB / Outdoor 7 °C DB, 6 °C WB.

Pipe: Length 7.5 m and height difference 0 m.

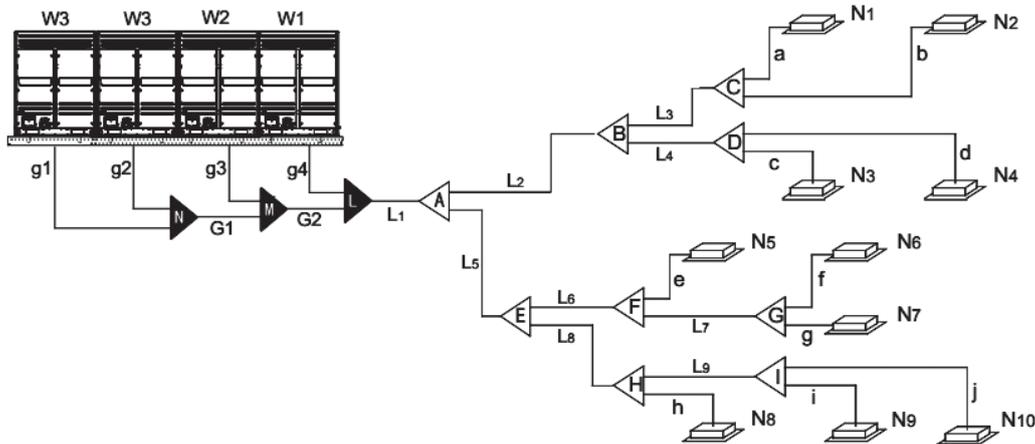
Note:

(1) In systems consisting of several modules, the power wiring and the electrical protections must be calculated for each module independently.

(2) Standard combinations, any other combination is possible (max. 4 units).

Maxi Series MVD V5X 2 pipes

SELECTION OF REFRIGERANT PIPES FOR MAXI MVD V5X 2 PIPES SYSTEM



DIAMETERS OF THE MAIN PIPE (L1)

Outdoor Unit Capacity (HP)	Main Piping (L1 < 90 m)		Main Piping (L1 > 90 m)	
	Liquid	Gas	Liquid	Gas
8	9.5 (3/8")	22.2 (7/8")	12.7 (1/2")	22.2 (7/8")
10	9.5 (3/8")	22.2 (7/8")	12.7 (1/2")	25.4 (1")
12 ~ 14	12.7 (1/2")	25.4 (1")	15.9 (5/8")	28.6 (1 1/8")
16	12.7 (1/2")	28.6 (1 1/8")	15.9 (5/8")	31.8 (1 3/8")
18 ~ 22	15.9 (5/8")	28.6 (1 1/8")	19.1 (3/4")	31.8 (1 3/8")
24	15.9 (5/8")	28.6 (1 1/8")	19.1 (3/4")	31.8 (1 3/8")
26 ~ 34	19.1 (3/4")	31.8 (1 3/8")	22.2 (7/8")	38.1 (1 1/2")
36 ~ 50	19.1 (3/4")	38.1 (1 1/2")	22.2 (7/8")	38.1 (1 1/2")
52 ~ 66	22.2 (7/8")	41.3 (1 5/8")	25.4 (1")	44.5 (1 3/4")
62 ~ 88	25.4 (1")	44.5 (1 3/4")	25.4 (1")	54.0 (2 1/8")

Note: All outdoor units combined must be at the highest level.

PIPE DIAMETERS (L2 ~ L9) AND DISTRIBUTORS (A ~ I) FOR INTERIOR UNITS

Capacity (kW)	Pipe		Branch Pipe
	Liquid	Gas	
TO < 16.6	9.5 (3/8")	15.9 (5/8")	FQZHN-01D
16.6 ≤ to < 23	9.5 (3/8")	19.1 (3/4")	FQZHN-01D
23 ≤ to < 33	9.5 (3/8")	22.2 (7/8")	FQZHN-02D
33 ≤ to < 46	12.7 (1/2")	28.6 (1 1/8")	FQZHN-03D
46 ≤ to < 66	15.9 (5/8")	28.6 (1 1/8")	FQZHN-03D
66 ≤ to < 92	19.1 (3/4")	31.8 (1 3/8")	FQZHN-03D
92 ≤ to < 135	19.1 (3/4")	38.1 (1 1/2")	FQZHN-04D
135 ≤ to < 180	22.2 (7/8")	41.3 (1 5/8")	FQZHN-05D
180 ≤ to	25.4 (1")	44.5 (1 3/4")	FQZHN-06D

A = Total Capacity (kW) of indoor units connected from that distributor.

PIPE DIAMETERS (a ~ j) FOR INDOOR UNITS

Capacity (kW)	Pipe ((a ~ j) ≤ 10 m)		Pipe ((a ~ j) ≤ 10 m)	
	Liquid	Gas	Liquid	Gas
to ≤ 4.5	6.4 (1/4")	12.7 (1/2")	9.5 (3/8")	15.9 (5/8")
to > 4.5	9.5 (3/8")	15.9 (5/8")	12.7 (1/2")	19.1 (3/4")

A = Capacity (kW) of the unit. Indoor.

PIPE DIAMETERS (g1, g2, g3, g4, g1, g2) FOR OUTDOOR UNITS

	Pipe	Liquid	Gas
	g1, g2, g3, g4	8, 10, 12 HP	25.4 (1")
	14, 16, 18, 20, 22 HP	31.8 (1 3/8")	15.9 (5/8")
	G1	38.1 (1 1/2")	19.1 (3/4")
	G2	41.2 (1 5/8")	22.2 (7/8")

DISTRIBUTORS (L, M, N) FOR OUTDOOR UNITS

Amount of outdoor units	Branch Pipe	Distributor Model
2	L	FQZHW-02N1D
3	L + M	FQZHW-03N1D
4	L + M + N	FQZHW-04N1D

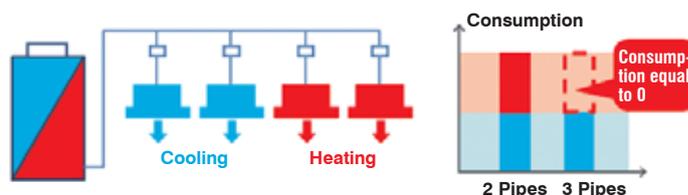


OUTDOOR UNITS Maxi MVD VR4 3 pipes Series

Super DC Inverter (up to 180 kW)

HEAT RECOVERY SYSTEM

With the new MVD 3 pipes, we can heat and cool different zones simultaneously with a single air conditioning system. This saves up to 50% of the energy cost compared to a conventional 2-pipes system.



WIDE RANGE CAPACITY

Thanks to the 5 basic modules (8, 10, 12, 14 and 16 HP), the system capacity can range from 8 to 64 HP with increments of 2 HP.

In total you can connect up to 64 indoor units or a total capacity of indoor units that does not exceed 130 % of the capacity of the outdoor unit.

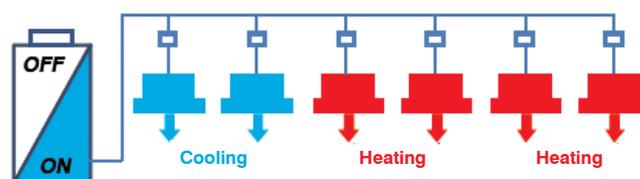


SUPER DC INVERTER TECHNOLOGY

All range equipments include compressors and fan motors DC Inverter, in this way the performance for medium frequency system is improved and it ensures a more sensitive and effective control.

AUTOMATIC ADJUSTMENT OF CAPACITY

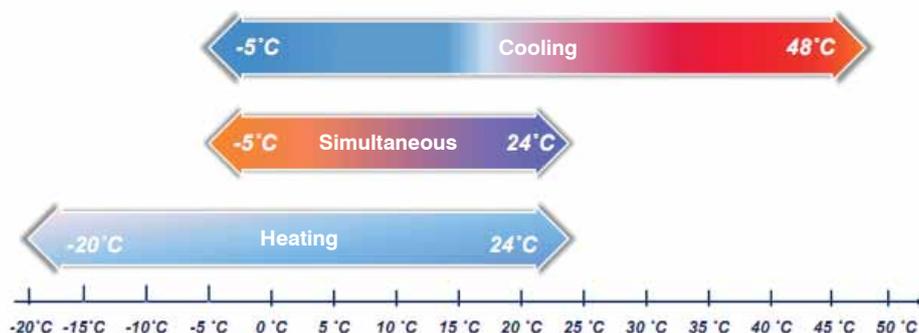
The heat exchanger is split into two parts, thus it can use at the same time one part to evaporate and the other to condense, or it can use only one part if working with partial load.



WIDE OPERATION RANGE

The VR4+ equipment can operate in extreme temperature conditions, in heating mode up to an outdoor temperature

of -20 °C, in cooling mode up to 48 °C and in both modes simultaneously from -5 °C to 24 °C.

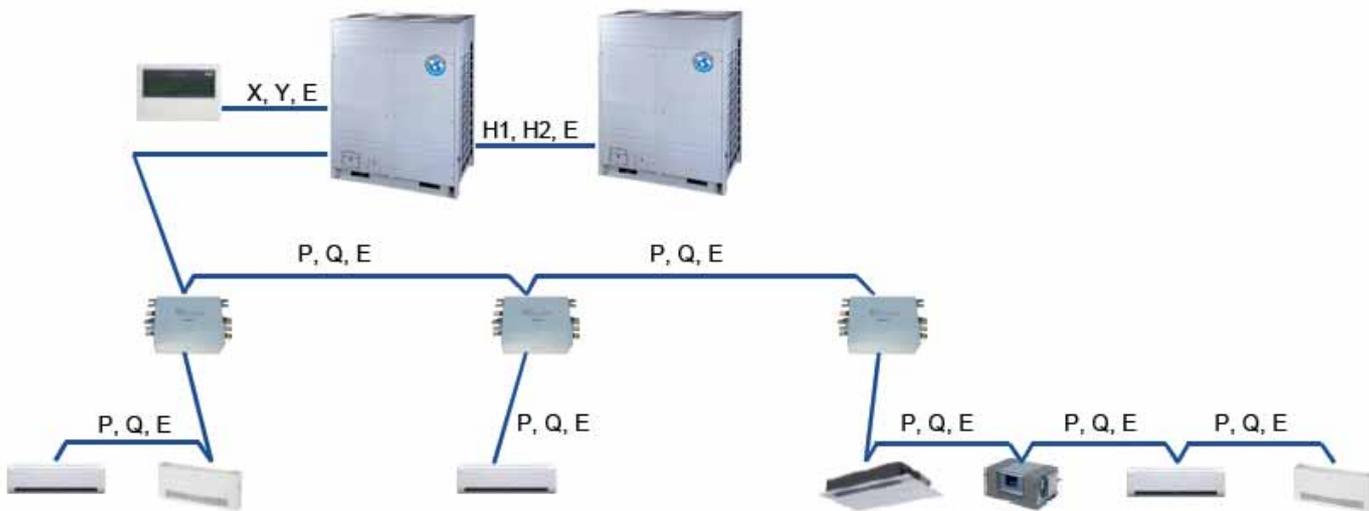


Maxi MVD VR4 3 pipes Series

SIMPLIFIED COMMUNICATION CONNECTION

The installation of the communication wiring is simpler because in case you need to install a centralized control is not necessary to wire a second bus for communication between the indoor units and the central control.

You can connect the central control directly to the outdoor unit and perform manual routing for the control to detect all indoor units connected to that outdoor unit.

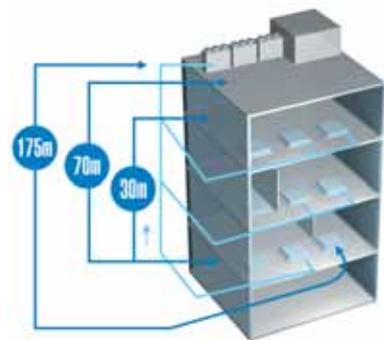


PIPE TOTAL LENGTH

The Maxi MVD VR4+ system supports a maximum length of pipe up to 1,000 m and a height difference of 70 m or even 110 m in case the outdoor unit is installed lower than indoor units.

			Max. value (m)
PIPE LENGTH	Pipe total length		1000
	Max. distance (L)	Total length	175
		Equivalent length	200
	Equivalent pipe length between the furthest indoor unit and the first distributor.		40 / 90*
Equivalent pipe length between the furthest indoor unit and its distributor MS.		40	
HEIGHT DIFFERENCE	Height difference between indoor and outdoor units	Unit Higher outdoor unit	70
		Unit Lower outdoor unit	110
	Height difference between indoor units		30

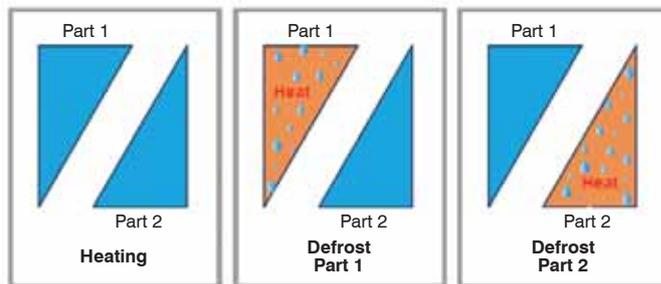
*When the length exceeds 40 m, it will be necessary to modify the diameters (refer to the installation manual).



- 175 m:** Maximum pipe distance between the outdoor and the furthest indoor unit.
- 70 m:** Difference of maximum height between indoor and outdoor unit.
- 30 m:** Maximum height difference among indoor units.

DEFROSTS AND HEATING AT THE SAME TIME

Thanks to the heat exchanger split into two stages, the equipment is able to defrost while sending high pressure gas to the indoor units. First performs the defrosting of one exchanger section and then the other part.

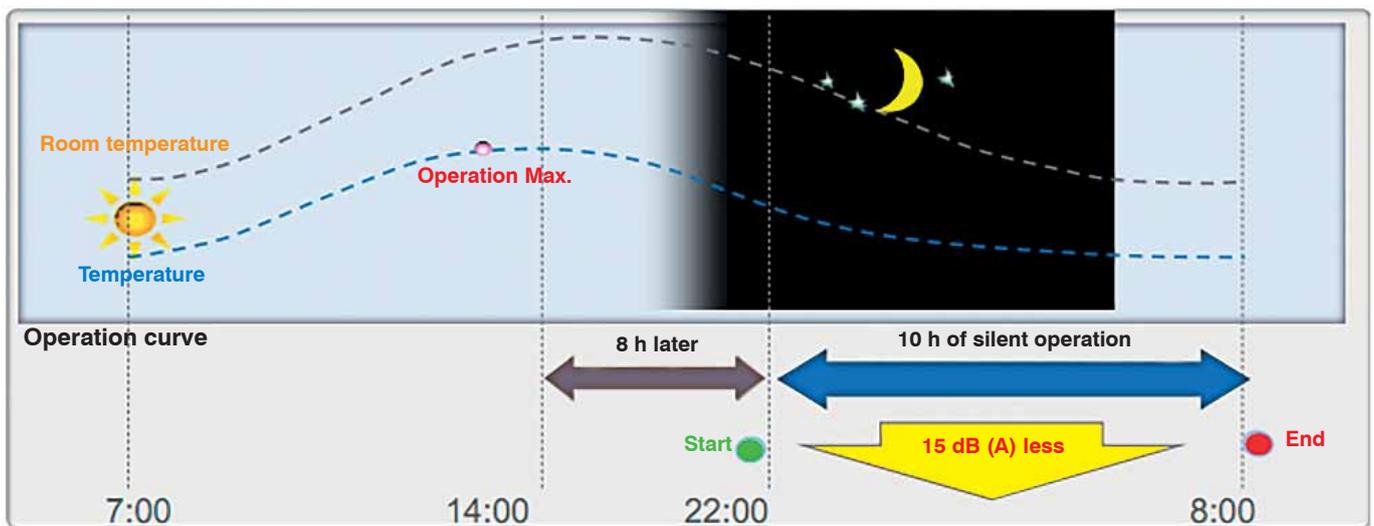


Maxi MVD VR4 3 pipes Series

NIGHT MODE

Possibility of establishing night schedules in which is possible to reduce the sound level. There are four different reduction levels.

Mode	Sound level
Normal mode	According to normal operation
Silent mode	8 dB (A) Less
Super quiet mode	12 dB(A) less
Night mode (by default)	15 dB (A) less



EASY SERVICING

- Door-type electrical assembly to improve access to the cooling components.
- Location of the compressors near the outside.
- 4-bits display on the external PCB.



Component box rotation up to 150°

Easy access to the compressors



Maxi MVD VR4 3 pipes Series

ROTATION & BACKUP

In a modular system, thanks to the rotation function every unit can be started as master unit, therefore, all compressors will work the same amount of hours.

In the event of a problem and one of the modules showing an error code (E*), the "Backup" function resets the equipment with the problem and starts the next module of the rotation. For example, if there is a problem in slave unit 1, it will be put on hold and the other units will continue operation.

	Master	Slave 1	Slave 2
Sequence 1	1	2	3
Sequence 2	3	1	2
Sequence 3	2	3	1



OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wattmeter



DTS634 / DTS636
(CL 92 882)

Alarm signal



KJR-32B
(CL 92 880)

EU central control



CCM02/E
(CL 92 912)

Maxi MVD VR4 3 pipes Series

MS DISTRIBUTION BOXES

New MS distribution boxes for MVD VR4+ system (3 pipes), each box has 1 to 6 exits respectively. It permits to have a high flexibility at the time of installation.



MVD-MS01/N1-C



MVD-MS02/N1-C



MVD-MS04/N1-C



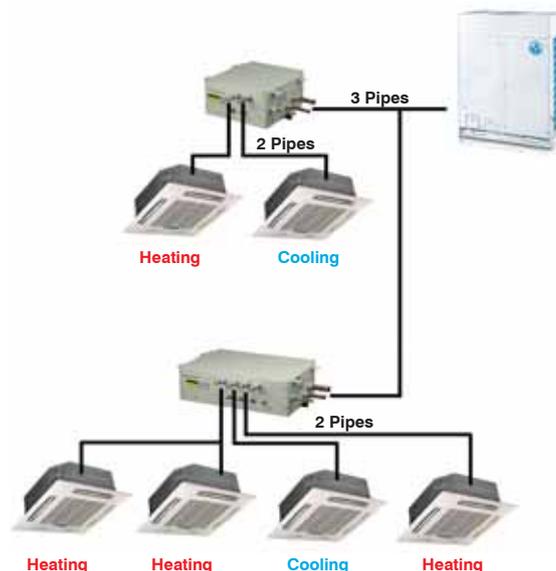
MVD-MS06/N1-C

Model			MVD-MS01/N1-C	MVD-MS02/N1-C	MVD-MS04/N1-C	MVD-MS06/N1-C	
Code			CL 23 284	CL 23 280	CL 23 281	CL 23 282	
Power supply		F, V, Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz	
Max. capacity of ind. units (outlet / total)		kW	16/16	16/28	16/45	16/45	
Maximum amount indoor units (outlet / total)			4/4	4/8	4/16	4/24	
Outlets amount			1	2	4	6	
Dimensions (W x H x D)		mm	630 x 225 x 600	630 x 225 x 600	960 x 225 x 600	960 x 225 x 600	
Weight		kg	18	19.5	31	35	
Sound pressure		dB(A)	33	33	33	40	
Drain connection		mm	Ø25	Ø25	Ø25	Ø25	
Connection pipes	Unit side Interior	Liquid Line	mm	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
		Gas Line	mm	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
	Unit side Exterior	Liquid Line	mm	9.5 (3/8")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")
		High pressure gas Line	mm	15.9 (5/8")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")
		Low pressure gas Line	mm	19.1 (3/4")	25.4 (1")	31.8 (1 1/4")	31.8 (1 1/4")

Caution: These boxes can be used to connect high pressure duct indoor units (20 to 56W), look at the following table.

For high pressure duct indoor units (20 to 56W), the following boxes MS units are used:

Model			MVD-MS02E/N1-C	MVD-MS04E/N1-C
Code			CL 23 285	CL 23 286
Power supply		F, V, Hz	1N-, 230V, 50Hz	1N-, 230V, 50Hz
Maximum indoor unit capacity		kW	28	56
Maximum amount of indoor units			1	1
Dimensions (W x H x D)		mm	630 x 225 x 600	960 x 225 x 600
Weight		kg	19.5	31
Sound pressure		dB(A)	33	33
Drain connection		mm	Ø25	Ø25
Connection pipes	Unit side Interior	Liquid Line	mm	9.5 (3/8")
		Gas Line	mm	15.9 (5/8")
	Unit side Exterior	Liquid Line	mm	12.7 (1/2")
		High pressure gas Line	mm	19.1 (3/4")
		Low pressure gas Line	mm	25.4 (1")



TECHNICAL SPECIFICATIONS

Maxi MVD VR4 3 pipes Series

Model			MVD-252(8)W/ D2RN1T(C)	MVD-280(10)W/ D2RN1T(C)	MVD-335(12)W/ D2RN1T(C)	MVD-400(14)W/ D2RN1T(C)	MVD-450(16)W/ D2RN1T(C)
Code			CL 23 115	CL 23 116	CL 23 117	CL 23 118	CL 23 119
Power supply		F, V, Hz	3N-, 400V, 50Hz				
Cooling ⁽¹⁾	Capacity	kW	25.2	28	33.5	40	45
	Power consumption	kW	5.73	6.67	8.07	11.30	13.24
	EER / SEER (EN14825)		4.40 / 7.53	4.20 / 7.43	4.15 / 7.4	3.54 / 6.68	3.40 / 6.38
Heating ⁽²⁾	Capacity	kW	27	31.5	37.5	45	50
	Power consumption	kW	6.00	7.33	8.72	11.19	12.79
	COP / SCOP (EN14825)		4.50 / 6.23	4.30 / 6.05	4.30 / 6.02	4.02 / 5.67	3.91 / 5.45
Max. current		A	18.4	20.6	21.8	27.0	33.4
Connectivity	Connecting capacity	%	50 – 130	50 – 130	50 – 130	50 – 130	50 – 130
	Max. quantity Unit Indoor		13	16	20	23	26
Compressor	Brand		Hitachi				
	Type		DC Inverter				
	Amount		1	1	1	2	2
	Model N° 1		E655DHD-65D2YG				
	Model N° 2		-	-	-	E405DHD-36D2YG	
Fan	Type		DC	DC	DC	DC	DC
	Amount		2	2	2	2	2
	Air flow rate	m ³ /h	12,000	12,000	13,000	15,000	15,000
	Standard static pressure	Pa	0 – 20	0 – 20	0 – 20	0 – 20	0 – 20
Sound pressure ⁽³⁾		dB(A)	57	57	58	60	60
Dimensions	Net (W x H x D)		1250 x 1615 x 765				
	Gross (W x H x D)		1305 x 1790 x 820				
Weight	Net		255	255	255	303	303
	Gross		273	273	273	322	322
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Amount		10	10	10	13	13
Additional oil	Capacity (Type)	L	5 (FVC68D)	5 (FVC68D)	5 (FVC68D)	7 (FVC68D)	7 (FVC68D)
Pipe length ⁽⁴⁾	Max. vertical		70	70	70	70	70
	Total		1,000	1,000	1,000	1,000	1,000
Connection pipes ⁽⁵⁾	Liquid Line		12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
	High pressure gas line		19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")
	Low pressure gas line		22.2 (7/8")	22.2 (7/8")	25.4 (1")	28.6 (1 1/8")	28.6 (1 1/8")
	Gas balance line		19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
	Oil balance line		6 (1/4")	6 (1/4")	6 (1/4")	6 (1/4")	6 (1/4")
Electrical connections ⁽⁶⁾	Power wiring/ICP		4 x 6 + T / 25			4 x 10 + T / 30	4 x 16 + T / 35
	Signal wiring		3 x 0,75 (shielded)				
Operation Temp. Range	Cooling		-5 to 48	-5 to 48	-5 to 48	-5 to 48	-5 to 48
	Heating		-20 to 24	-20 to 24	-20 to 24	-20 to 24	-20 to 24
	Simultaneous		-5 to 24	-5 to 24	-5 to 24	-5 to 24	-5 to 24

Notes:

⁽¹⁾ Nominal cooling conditions: indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 7.5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 7.5 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.3 m height.

⁽⁴⁾ Pipe length when outdoor unit is higher installed than the indoor units. Otherwise the maximum distance in vertical can reach 110 m.

⁽⁵⁾ Specified diameters of connection pipes are of service valves, this does not mean that the pipe must have this diameter. Gas and oil balance pipe, is only needed when two or more modules are connected.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

COMBINATIONS

Maxi MVD VR4 3 pipes Series

Model	Combination (HP)	Capacity (HP)	Capacity (kW)		Max. quantity indoor. ut.	
			Cooling	Heating		
	MVD-252(8)W/2RN1T(C)	8	8	25.2	27	13
	MVD-280(10)W/2RN1T(C)	10	10	28	31.5	16
	MVD-335(12)W/2RN1T(C)	12	12	33.5	37.5	20
	MVD-400(14)W/2RN1T(C)	14	14	40	45	23
	MVD-450(16)W/2RN1T(C)	16	16	45	50	26
	MVD-532(18)W/2RN1T(C)	8+10	18	53.2	58.5	29
	MVD-560(20)W/2RN1T(C)	10+10	20	56	63	33
	MVD-615(22)W/2RN1T(C)	10+12	22	61.5	69	36
	MVD-680(24)W/2RN1T(C)	10+14	24	68	76.5	39
	MVD-730(26)W/2RN1T(C)	10+16	26	73	81.5	43
	MVD-800(28)W/2RN1T(C)	14+14	28	80	90	46
	MVD-850(30)W/2RN1T(C)	14+16	30	85	95	50
	MVD-900(32)W/2RN1T(C)	16+16	32	90	100	53
	MVD-960(34)W/2RN1T(C)	10+10+14	34	96	108	56
	MVD-1010(36)W/2RN1T(C)	10+10+16	36	101	113	59
	MVD-1065(38)W/2RN1T(C)	10+12+16	38	106.5	119	64
	MVD-1130(40)W/2RN1T(C)	10+14+16	40	113	126.5	64
	MVD-1200(42)W/2RN1T(C)	14+14+14	42	120	135	64
	MVD-1250(44)W/2RN1T(C)	14+14+16	44	125	140	64
	MVD-1300(46)W/2RN1T(C)	14+16+16	46	130	145	64
	MVD-1350(48)W/2RN1T(C)	16+16+16	48	135	150	64
	MVD-1432(50)W/2RN1T(C)	8+10+16+16	50	143.2	158.5	64
	MVD-1460(52)W/2RN1T(C)	10+10+16+16	52	146	163	64
	MVD-1515(54)W/2RN1T(C)	10+12+16+16	54	151.5	169	64
	MVD-1580(56)W/2RN1T(C)	10+14+16+16	56	158	176.5	64
	MVD-1650(58)W/2RN1T(C)	14+14+14+16	58	165	185	64
	MVD-1700(60)W/2RN1T(C)	14+14+16+16	60	170	190	64
	MVD-1750(62)W/2RN1T(C)	14+16+16+16	62	175	195	64
	MVD-1800(64)W/2RN1T(C)	16+16+16+16	64	180	200	64

Capacities measured on the following conditions:

Cooling: Indoor: 27 °C DB, 19 °C WB / Outdoor: 35 °C DB, 24 °C WB.

Heating: 20 °C DB, 15 °C WB / Outdoor 7 °C DB, 6 °C WB.

Pipe: Length 7.5 m and height difference 0 m.

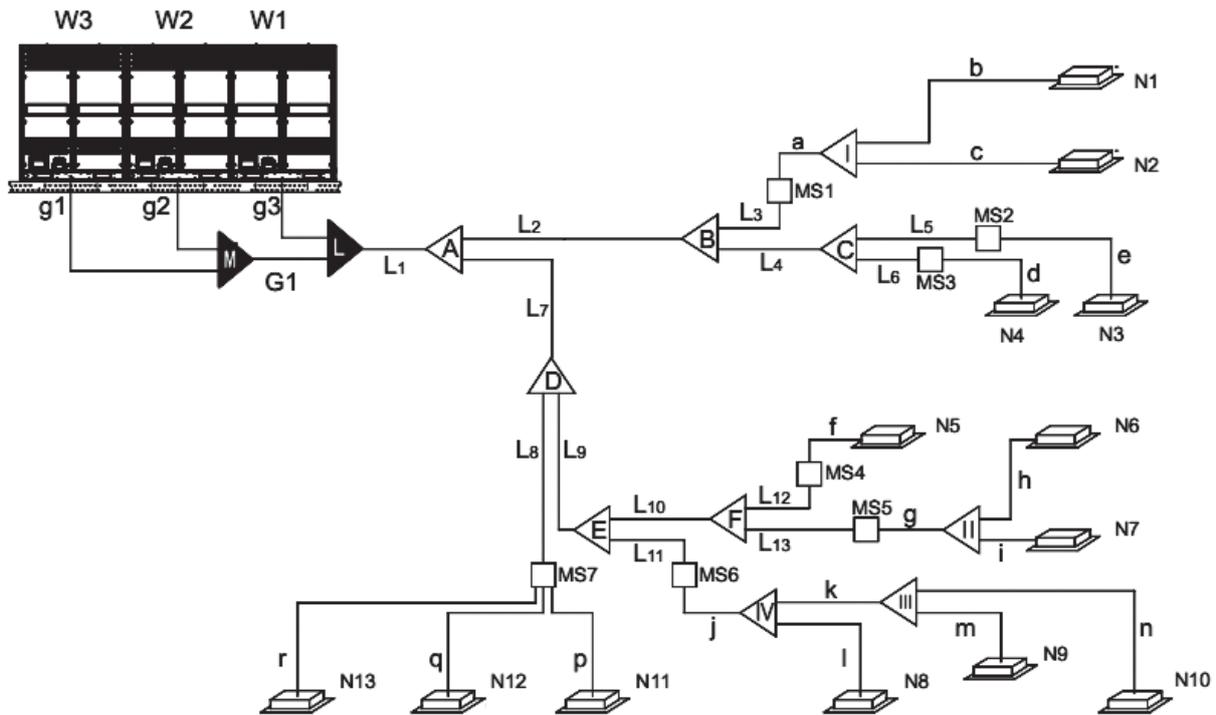
Note:

(1) In systems consisting of several modules, the power wiring and the electrical protections must be calculated for each module independently.

(2) Standard combinations, any other combination is possible (max. 4 units).

Maxi MVD VR4 3 pipes Series

SELECTION OF REFRIGERANT PIPES
FOR THE MAXI SYSTEM MVD VR4 + 3 PIPES SYSTEM



DIAMETERS OF MAIN PIPE (L1) AND FIRST DISTRIBUTOR (A)

Main Piping (L1 < 90 m)				Main Piping (L1 > 90 m)			
Liquid	High pressure gas line	Low pressure gas line	First Distributor	Liquid	High pressure gas line	Low pressure gas line	First Distributor
9.5 (3/8")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB	12.7 (1/2")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB
12.7 (1/2")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB	12.7 (1/2")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB
12.7 (1/2")	19.1 (3/4")	25.4 (1")	FQZHN-03SB	15.9 (5/8")	19.1 (3/4")	25.4 (1")	FQZHN-03SB
15.9 (5/8")	22.2 (7/8")	28.6 (1 1/8")	FQZHN-03SB	15.9 (5/8")	22.2 (7/8")	28.6 (1 1/8")	FQZHN-03SB
15.9 (5/8")	28.6 (1 1/8")	31.8 (1 1/4")	FQZHN-03SB	19.1 (3/4")	28.6 (1 1/8")	31.8 (1 1/4")	FQZHN-03SB
15.9 (5/8")	28.6 (1 1/8")	34.9 (1 3/8")	FQZHN-04SB	19.1 (3/4")	28.6 (1 1/8")	34.9 (1 3/8")	FQZHN-04SB
19.1 (3/4")	28.6 (1 1/8")	34.9 (1 3/8")	FQZHN-04SB	22.2 (7/8")	28.6 (1 1/8")	34.9 (1 3/8")	FQZHN-04SB
19.1 (3/4")	34.9 (1 3/8")	41.3 (1 5/8")	FQZHN-05SB	22.2 (7/8")	34.9 (1 3/8")	41.3 (1 5/8")	FQZHN-05SB
22.2 (7/8")	38.1 (1 1/2")	44.5 (1 3/4")	FQZHN-05SB	25.4 (1")	38.1 (1 1/2")	44.5 (1 3/4")	FQZHN-05SB

PIPE DIMMETERS (L2 ~ L13) AND MAIN DISTRIBUTORS (B ~ F)

Capacity (kW)	Pipe			Branch Pipe
	Liquid	High Pressure Gas	Low Pressure Gas	
TO < 5.6	6.35 (1/4")	9.5 (3/8)	12.7 (1/2")	FQZHN-01SB
5.6 ≤ to < 16.6	9.5 (3/8)	15.9 (5/8")	19.1 (3/4")	FQZHN-01SB
16.6 ≤ to < 23	9.5 (3/8")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB
23 ≤ to < 33	12.7 (1/2")	19.1 (3/4")	22.2 (7/8")	FQZHN-02SB
33 ≤ to < 46	12.7 (1/2")	22.2 (7/8")	28.6 (1 1/8")	FQZHN-03SB
46 ≤ to < 66	15.9 (5/8")	22.2 (7/8")	28.6 (1 1/8")	FQZHN-03SB
66 ≤ to < 92	19.1 (3/4")	28.6 (1 1/8")	34.9 (1 3/8")	FQZHN-04SB
92 ≤ to < 135	19.1 (3/4")	34.9 (1 3/8")	41.3 (1 5/8")	FQZHN-05SB
135 ≤ to	22.2 (7/8")	38.1 (1 1/2")	44.5 (1 3/4")	FQZHN-05SB

A = Total Capacity (kW) of indoor units connected from that distributor.

Maxi MVD VR4 3 pipes Series

PIPE DIAMETERS (a, g, j, k) AND DISTRIBUTORS (I, II, III, IV) FOR INDOOR UNITS (DISTRIBUTORS TO BE USED AFTER A MS BOX)

Capacity (kW)	Pipe		Branch Pipe
	Liquid	Gas	
TO < 16.6	9.5 (3/8")	15.9 (5/8")	FQZHN-01D

A = Total Capacity (kW) of indoor units connected from that distributor.

PIPE DIAMETERS (b, c, d, e, f, h, i, l, m, n, p, q, r) FOR INDOOR UNITS

Capacity (kW)	Distance to MS or Distributor < 10 m		Distance to MS or Distributor > 10 m	
	Liquid	Gas	Liquid	Gas
TO < 5.6	6.4 (1/4")	12.7 (1/2")	9.5 (3/8")	15.9 (5/8")
5.6 ≤ to < 16	9.5 (3/8")	15.9 (5/8")	12.7 (1/2")	19.1 (3/4")

A = Capacity (kW) of ut. Indoor.

PIPE DIAMETERS (g1, g2, g3, g4, g1, g2) FOR OUTDOOR UNITS

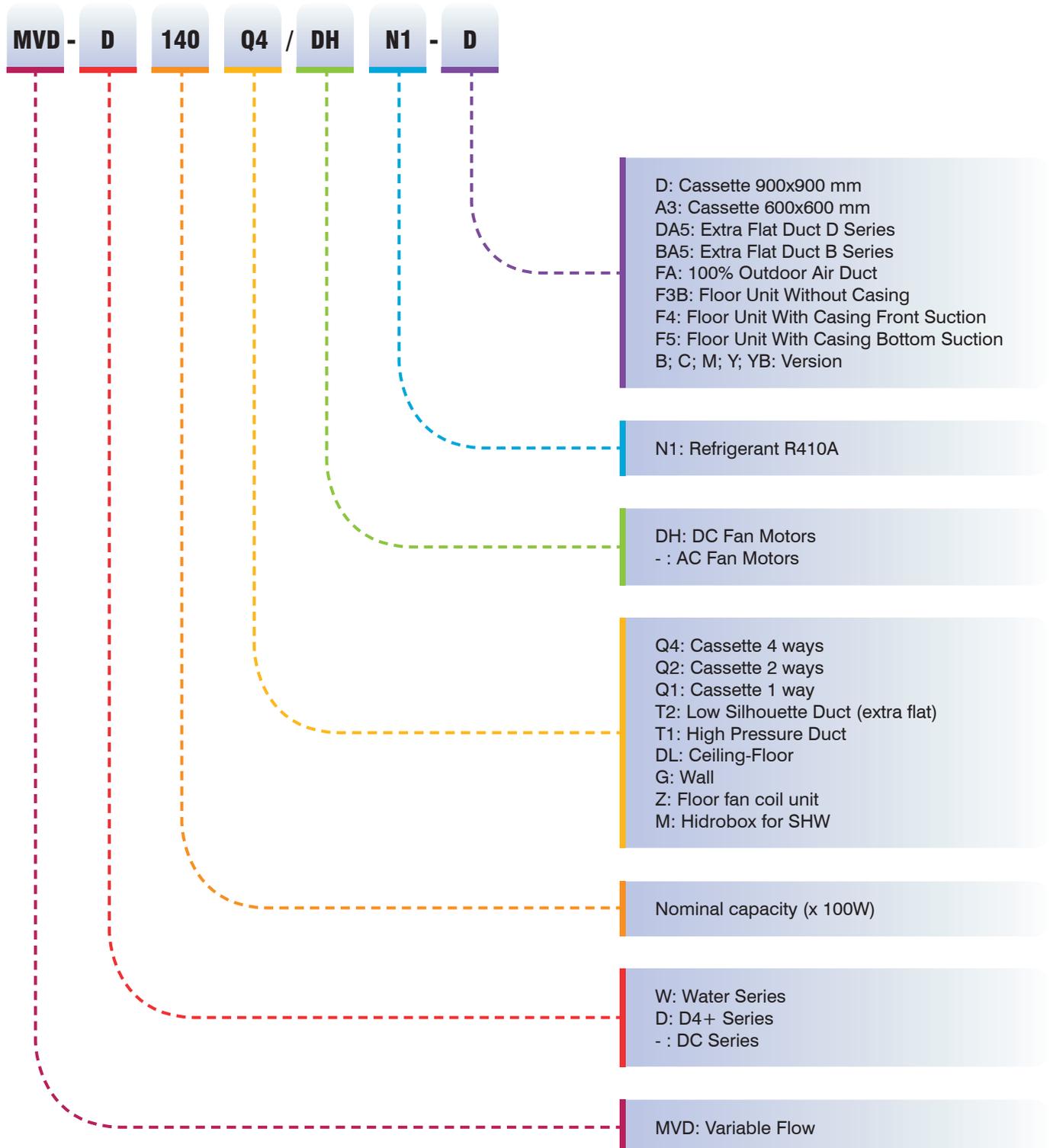
Pipe	Liquid	High Pressure Gas	Low Pressure Gas	
	g1, g2, g3, g4	8, 10 HP	12.7 (1/2")	19.1 (3/4")
	12, 14, 16 HP	15.9 (7/8")	22.2 (7/8")	28.6 (1 1/8")
G1		19.1 (3/4")	28.6 (1 1/8")	34.9 (1 3/8")
G2		22.2 (7/8")	34.9 (1 3/8")	41.3 (1 5/8")

DISTRIBUTORS (L, N, M) FOR EXTERNAL UNITS

Amount of outdoor units	Branch Pipe	Distributor Model
2	L	FQZHW-02SB
3	L + M	FQZHW-03SB
4	L + M + N	FQZHW-04SB



Indoor Units MVD Names



Indoor Units MVD

Range of Products

Type		Model	Capacity (x100 W)																	
			22	28	36	45	56	71	80	90	112	125	140	160	200	250	280	400	450	560
CASSETTE																				
4 ways DC		MVD-**Q4/ DHN1-D					■	■	■	■	■		■							
4 ways - Compact DC		MVD-**Q4/ DHN1-A3	■	■	■	■														
DUCT																				
Extra flat DC (Medium pressure)		MVD-**T2/ DHN1-DA5	■	■	■	■	■	■												
		MVD-**T2/ DHN1-BA5							■	■	■		■							
High pressure DC		MVD-**T1/ DHN1-B												■	■	■	■			
High pressure D4+		MVD-D***T1/ N1																■	■	■
100 % Outdoor Air DC		MVD-***T1/ DHN1-FA											■	■		■	■	■		
CEILING-FLOOR																				
Floor-Ceiling DC		MVD-**DL/ DHN1-C			■	■	■	■	■	■	■		■							
WALL MOUNTED																				
Wall DC		MVD-**G/ DHN1-M	■	■	■	■	■	■	■											
Wall D4+		MVD-D**G/ N1-YB			■	■	■													
FAN COIL UNIT																				
Floor DC		MVD-**Z/ DHN1-B	■	■	■	■														
FLOOR																				
With casing DC	Front suction		MVD-**Z/ DHN1-F4	■	■	■	■	■	■	■										
	Button suction		MVD-**Z/ DHN1-F5	■	■	■	■	■	■	■										
Without casing DC			MVD-**Z/ DHN1-F3B	■	■	■	■	■	■											



INDOOR UNITS

Cassette 4 ways DC



TECHNICAL SPECIFICATIONS

Model			MVD-56Q4/DHN1-D	MVD-71Q4/DHN1-D	MVD-80Q4/DHN1-D	MVD-D90Q4/DHN1-D	MVD-112Q4/DHN1-D	MVD-140Q4/DHN1-D
Code			CL 23 323 CL 23 343	CL 23 324 CL 23 344	CL 23 325 CL 23 345	CL 23 326 CL 23 346	CL 23 327 CL 23 347	CL 23 328 CL 23 348
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz					
Cooling ⁽¹⁾	Capacity	kW	5.6	7.1	8.0	9.0	11.2	14.0
	Power consumption	W	31	46	48	75	75	94
Heating ⁽²⁾	Capacity	kW	6.3	8.0	9.0	10.0	12.5	15.0
	Power consumption	W	31	46	48	75	75	94
Fan	Air Flow (High/Medium/Low)	m³/h	1029 / 857 / 704	1200/996 / 748	1264/1055 / 811	1.596/1.239/1.030		1727/1426 / 1220
	Sound pressure (High/Medium/Low) ⁽³⁾	dB(A)	43/38/34	45/39/34	46/40/35	47/41/36	47/41/36	50/45/35
Indoor unit (body)	Dimensions (Width x Height x Depth)	mm	904x230x840			904x300x840		
	Weight	kg	24	24	24	27.4	27.4	30
Panel	Model		T-MBQ4-02B1					
	Dimensions (W x H x D)	mm	950 x 54.5 x 950					
	Weight	kg	5					
Drainage	Connection	mm	Ø32	Ø32	Ø32	Ø32	Ø32	Ø32
	Pump height ⁽⁴⁾	mm	750	750	750	750	750	750
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")					
	Gas Line	mm (inches)	15.9 (5/8")					
Electrical connections ⁽⁵⁾	Power wiring	mm²	2 x 2.5 + T (L < 20 m)					
	Signal wiring	mm²	3 x 0.75 (shielded)					

Notes:

- ⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, for a pipe length of 8 m and a height difference of 0 m.
- ⁽³⁾ Sound pressure measured in anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽⁴⁾ Maximum height from the unit shaft.
- ⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Wired remote control

Integral control

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMI COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



ON/OFF CONNECTOR
(CL 94 832)

⁽¹⁾ON/OFF Connector required
(CL 94 832).



INDOOR UNITS

Cassette 4 ways

Compact DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-22Q4/ DHN1-A3	MVD-28Q4/DHN1-A3	MVD-36Q4/DHN1-A3	MVD-45Q4/DHN1-A3
Code			CL 23 330/CL 23 350	CL 23 331/CL 23 351	CL 23 332/CL 23 352	CL 23 333/CL 23 353
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz			
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5
	Power consumption	W	15	16	21	21
Heating ⁽²⁾	Capacity	kW	2.4	3.2	4.0	5.0
	Power consumption	W	13	13	18	18
Fan	Air Flow (High / Medium / Low)	m³/h	526 / 449 / 364	576 / 503 / 405	604 / 516 / 400	604 / 516 / 400
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	34 / 32 / 22	34 / 32 / 22	40 / 34 / 27	40 / 34 / 27
Indoor unit	Dimensions (Wide x Height x Depth)	mm	570 x 260 x 570	570 x 260 x 570	570 x 260 x 570	570 x 260 x 570
	Weight	kg	16	16	17.5	17.5
Panel	Model		T-MBQ4-03B1	T-MBQ4-03B1	T-MBQ4-03B1	T-MBQ4-03B1
	Dimensions (W x H x D)	mm	647 x 50 x 647	647 x 50 x 647	647 x 50 x 647	647 x 50 x 647
	Weight	kg	3	3	3	3
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25
	Pump height ⁽⁴⁾	mm	600	600	600	600
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")			
	Gas Line	mm (inches)	12.7 (1/2")			
Electrical connections ⁽⁵⁾	Power wiring	mm²	2 x 2.5 + T (L < 20 m)			
	Signal wiring	mm²	3 x 0.75 (shielded)			

Notes:

- ⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB for a pipe length of 8 m and a height difference of 0 m.
- ⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽⁴⁾ Maximum height from the unit base.
- ⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1⁽¹⁾
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMI COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



ON/OFF CONNECTOR
(CL 94 831)

⁽¹⁾ON/OFF Connector required
(CL 94 831).



INDOOR UNITS

Duct Low Silhouette DC



KJR-29B1/BK-E
Included
(CL 92 869)



TECHNICAL SPECIFICATIONS

Model			MVD-22T2/ DHN1-DA5	MVD-28T2/ DHN1-DA5	MVD-36T2/ DHN1-DA5	MVD-45T2/ DHN1-DA5	MVD-56T2/ DHN1-DA5	MVD-71T2/ DHN1-DA5
Code			CL 23 370	CL 23 371	CL 23 372	CL 23 373	CL 23 374	CL 23 375
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz					
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Power consumption	W	39	39	45	58	89	68
Heating ⁽²⁾	Capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0
	Power consumption	W	39	39	45	58	89	68
Fan	Air Flow (High / Medium / Low)	m ³ /h	521 / 450 / 380	521 / 450 / 380	592 / 541 / 426	748 / 640 / 550	821 / 640 / 566	1021 / 940 / 1778
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	35 / 34 / 31	36 / 34 / 31	37 / 36 / 33	38 / 37 / 33	38 / 37 / 33	40 / 38 / 34
	Nominal Static Pressure (min-max)	Pa	50 (0 – 50)	50 (0 – 50)	50 (0 – 50)	50 (0 – 50)	50 (0 – 50)	50 (0 – 50)
Indoor unit	Dimensions (W x H x D)	mm	700x210x500	700x210x500	700x210x500	920x210x500	920x210x500	1140x210x500
	Weight	kg	17.5	17.5	17.5	22.5	22.5	28
Outside air inlet diameter		mm	Ø92	Ø92	Ø92	Ø92	Ø92	Ø92
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Pump height ⁽⁴⁾	mm	750	750	750	750	750	750
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")				9.52 (3/8")	
	Gas Line	mm (inches)	12.7 (1/2")				15.9 (5/8")	
Electrical connections ⁽⁵⁾	Power wiring	mm ²	2 x 2.5 + T (L<20 m)					
	Signal wiring	mm ²	3 x 0.75 (shielded)					

Notes:

- ⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB for a pipe length of 8 m and a height difference of 0 m.
- ⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽⁴⁾ Maximum height from the unit base.
- ⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS

Duct Low Silhouette DC



KJR-29B1/BK-E
Included
(CL 92 869)



TECHNICAL SPECIFICATIONS

Model		MVD-80T2/ DHN1-BA5	MVD-90T2/ DHN1-BA5	MVD-112T2/ DHN1-BA5	MVD-140T2/ DHN1-BA5
Code		CL 23 376	CL 23 377	CL 23 378	CL 23 379
Power supply	F, V, Hz	1N-, 220-240V, 50/60Hz			
Cooling ⁽¹⁾	Capacity	8.0	9.0	11.2	14.0
	Power consumption	98	108	178	204
Heating ⁽²⁾	Capacity	9.0	10.0	12.5	15.5
	Power consumption	98	108	178	204
Fan	Air Flow (High / Medium / Low)	m ³ /h 1290 / 1090 / 940	m ³ /h 1290 / 1090 / 940	m ³ /h 1780 / 1550 / 1352	m ³ /h 1950 / 1600 / 1400
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A) 44 / 38 / 37	dB(A) 44 / 38 / 37	dB(A) 47 / 41 / 37	dB(A) 47 / 42 / 38
	Nominal Static Pressure (min-max)	Pa 75 (0 – 100)	Pa 75 (0 – 100)	Pa 75 (0 – 100)	Pa 75 (20 – 150)
Indoor unit	Dimensions (W x H x D)	mm 1140 x 270 x 775	mm 1140 x 270 x 775	mm 1140 x 270 x 775	mm 1200 x 300 x 865
	Weight	kg 38	kg 40	kg 40	kg 49
Outside air inlet diameter	mm	Ø125	Ø125	Ø125	Ø125
Drainage	Connection	mm Ø25	mm Ø25	mm Ø25	mm Ø25
	Pumping height ⁽⁴⁾	mm 750	mm 750	mm 750	mm 750
Connection pipes	Liquid Line	mm (inches) 9.52 (3/8")	mm (inches) 9.52 (3/8")		
	Gas Line	mm (inches) 15.9 (5/8")	mm (inches) 15.9 (5/8")		
Electrical connections ⁽⁵⁾	Power wiring	mm ² 2 x 2.5 + T (L < 20 m)			
	Signal wiring	mm ² 3 x 0.75 (shielded)			

Notes:

- ⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB for a pipe length of 7.5 m and a height difference of 0 m.
- ⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽⁴⁾ Maximum height from the unit base.
- ⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS

Duct High pressure DC



KJR-29B1/BK-E
Included
(CL 92 869)



TECHNICAL SPECIFICATIONS

Model			MVD-160T1/DHN1-B	MVD-200T1/DHN1-B	MVD-250T1/DHN1-B	MVD-280T1/DHN1-B
Code			CL 23 380	CL 23 381	CL 23 382	CL 23 383
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz			
Cooling ⁽¹⁾	Capacity	kW	16.0	20.0	25.0	28.0
	Power consumption	W	700	800	800	800
Heating ⁽²⁾	Capacity	kW	17.0	22.5	26.0	31.5
	Power consumption	W	700	800	800	800
Fan	Air Flow (High / Medium / Low)	m ³ /h	3400 / 2660 / 2400	4820 / 4660 / 4620	4820 / 4660 / 4620	4820 / 4660 / 4620
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	54 / 52 / 50	57 / 53 / 50	57 / 53 / 50	57 / 53 / 50
	Nominal Static Pressure (min-max)	Pa	20 (0 – 196)	62 (40 – 200)	62 (40 – 200)	62 (40 – 200)
Indoor unit	Dimensions (W x H x D)	mm	1300 x 420 x 690	1450 x 505 x 925	1450 x 505 x 925	1450 x 505 x 925
	Weight	kg	70	108	108	108
Drainage	Connection	mm	Ø25	Ø32	Ø32	Ø32
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")			
	Gas Line	mm (inches)	15.9 (5/8")	19.05 (3/4")	22.2 (7/8")	
Electrical connections ⁽⁴⁾	Power wiring	mm ²	2 x 2.5 + T (L<20 m)			
	Signal wiring	mm ²	3 x 0.75 (shielded)			

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)

Wired remote control

Centralized controller



CCM30/BKE⁽¹⁾
(CL 92 871)

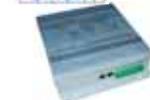


CCM15⁽¹⁾
(CL 92 872)



IMM4⁽¹⁾
(CL 97 160-163)

Integral control



CCM08/E⁽¹⁾
(CL 92 915)



LONGW64/E⁽¹⁾
(CL 92 877)



CCM18A/N⁽¹⁾
(CL 94 791)



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E⁽¹⁾
(CL 97 156)

⁽¹⁾ Units 200 to 280 use two addresses (count as 2 units).



INDOOR UNITS

Duct High pressure D4+



KJR-29B1/BK-E
Included
(CL 92 869)



TECHNICAL SPECIFICATIONS

Model			MVD-D400T1/N1	MVD-D450T1/N1	MVD-D560T1/N1
Code			CL 23 184	CL 23 185	CL 23 186
Power supply			V, Hz 1N-, 220-240V, 50Hz		
Cooling ⁽¹⁾	Capacity	kW	40	45	56
	Power consumption	W	2700	2700	3400
Heating ⁽²⁾	Capacity	kW	45	50	63
	Power consumption	W	2700	2700	3400
Fan	Air Flow (High/Medium/Low)	m³/h	7474/ 6072/4995		9550/ 7950/6600
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	61/ 59/56		63/ 60/57
	Static pressure	Pa	200 (50-280)		
Indoor unit	Dimensions (W x H x D)	mm	1970 x 668 x 902.5		
	Weight	kg	232	232	232
Drainage	Connection	mm	Ø32	Ø32	Ø32
Connection pipes	Liquid Line	mm	12.7 (1/2")		15.9 (5/8")
	Gas Line	mm	28.6 (1 1/8")		
Electrical connections ⁽⁵⁾	Power wiring	mm²	2 x 4 + T (L < 20 m)		
	Signal wiring	mm²	3 x 0.75 (shielded)		

Notes:

- ⁽¹⁾ Nominal cooling conditions : Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 8 m and a height difference of 0 m.
- ⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 8 m and a of height difference of 0 m.
- ⁽³⁾ Noise level measured in anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽⁴⁾ Maximum height from the unit base.
- ⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

* Air filter not included.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)

Wired remote control

Centralized controller



CCM30/BKE⁽¹⁾
(CL 92 871)



CCM15⁽¹⁾
(CL 92 872)



IMM4⁽¹⁾
(CL 97 160-163)

Integral control



CCM08/E⁽¹⁾
(CL 92 915)



LONGW64/E⁽¹⁾
(CL 92 877)



CCM18A/N⁽¹⁾
(CL 94 791)



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E⁽¹⁾
(CL 97 156)

⁽¹⁾ Each unit occupies four directions (count as 4 units).



INDOOR UNITS

Duct 100%

Outdoor Air DC



KJR-29B1/BK-E
Included
(CL 92 869)



TECHNICAL SPECIFICATIONS

Model			MVD-125T1/ DHN1-FA	MVD-140T1/ DHN1-FA	MVD-200T1/ DHN1-FA	MVD-250T1/ DHN1-FA	MVD-280T1/ DHN1-FA
Code			CL 23 390	CL 23 391	CL 23 392	CL 23 393	CL 23 394
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz				
Cooling ⁽¹⁾	Capacity	kW	12.5	14	20	25	28
	Power consumption	W	370	370	615	670	670
Heating ⁽²⁾	Capacity	kW	10.5	12	18	20	22
	Power consumption	W	370	370	615	670	670
Fan	Air Flow (High / Medium / Low)	m³/h	2.440/2.000/1.470	2.440/2.000/1.470	3.860/3.430/2.890	3.860/3.430/2.890	3.860/3.430/2.890
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	52 / 50 / 48	52 / 50 / 48	52 / 51 / 19	53 / 52 / 50	53 / 52 / 50
	Nominal Static Pressure (min-max)	Pa	20 (0 – 196)	20 (0 – 196)	62 (40 – 200)	62 (40 – 200)	62 (40 – 200)
Indoor unit	Dimensions (W x H x D)	mm	1300 x 420 x 690	1300 x 420 x 690	1450 x 505 x 925	1450 x 505 x 925	1450 x 505 x 925
	Weight	kg	63	63	108	108	108
Drainage	Connection	mm	Ø25	Ø25	Ø32	Ø32	Ø32
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")				
	Gas Line	mm (inches)	15.9 (5/8")		19.05 (3/4")	22.2 (7/8")	
Electrical connections ⁽⁴⁾	Power wiring	mm²	2 x 2.5 + T (L < 20 m)				
	Signal wiring	mm²	3 x 0.75 (shielded)				

Notes:

⁽¹⁾ Nominal cooling conditions : Outdoor 33 °C DB and 28 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Outdoor 0 °C DB and -2,9 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

Caution: Indoor units 100% Air Outdoors are only compatible with the outdoor units Maxi MVD V5X and can not exceed 100% simultaneity.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM05/BG(T)-E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)

Centralized controller



CCM30/BKE⁽¹⁾
(CL 92 871)



CCM15⁽¹⁾
(CL 92 872)



IMM4⁽¹⁾
(CL 97 160-163)

Integral control



CCM08/E⁽¹⁾
(CL 92 915)



LONGW64/E⁽¹⁾
(CL 92 877)



CCM18A/N⁽¹⁾
(CL 94 791)



MD-AC-KNX⁽¹⁾
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E⁽¹⁾
(CL 97 156)

⁽¹⁾ Units 200 to 280 use two addresses (count as 2 units).



INDOOR UNITS Floor-Ceiling DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-36DL /DHN1-C	MVD-45DL /DHN1-C	MVD-56DL /DHN1-C	MVD-71DL /DHN1-C	MVD-80DL /DHN1-C	MVD-90DL /DHN1-C	MVD-112DL /DHN1-C	MVD-140DL /DHN1-C
Code			CL 23 400	CL 23 401	CL 23 402	CL 23 403	CL 23 404	CL 23 405	CL 23 406	CL 23 407
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz							
Cooling ⁽¹⁾	Capacity	kW	3.6	4.5	5.6	7.1	8	9	11.2	14
	Power consumption	W	23	94	94	94	126	126	130	130
Heating ⁽²⁾	Capacity	kW	4	5	6.3	8	9	10	12.5	15
	Power consumption	W	23	94	94	94	126	126	130	130
Fan	Air Flow (High / Medium / Low)	m ³ /h	550 / 480 / 420	930/830 / 720	930 / 830 / 720	930 / 830 / 720	1280 / 1170 / 1050	1280 / 1170 / 1050	1890 / 1700 / 1580	1890 / 1700 / 1580
	Sound pressure (High/Medium/Low) ⁽³⁾	dB(A)	40/38/36	43/41/38	43/41/38	43 / 41 / 38	45/43/40	45/43/40	47/45/42	47/45/42
Indoor unit	Dimensions (W x H x D)	mm	990 x 203 x 660	990 x 203 x 660	990 x 203 x 660	990 x 203 x 660	1280 x 203 x 660	1280 x 203 x 660	1670 x 244 x 680	1670 x 244 x 680
	Weight	kg	25	27	27	27	33.5	33.5	49	49
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")			9.52 (3/8")				
	Gas Line	mm (inches)	12.7 (1/2")			15.9 (5/8")				
Electrical connections ⁽⁴⁾	Power wiring	mm ²	2 x 2.5 + T (L < 20 m)							
	Signal wiring	mm ²	3 x 0.75 (shielded)							

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1,5 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS Wall split DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-22G /DHN1-M	MVD-28G /DHN1-M	MVD-36G /DHN1-M	MVD-45G /DHN1-M	MVD-56G /DHN1-M	MVD-71G /DHN1-M	MVD-80G /DHN1-M	
Code			CL 23 410	CL 23 411	CL 23 412	CL 23 413	CL 23 414	CL 23 415	CL 23 416	
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz							
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	
	Power consumption	W	8	9	19	19	27	49	53	
Heating ⁽²⁾	Capacity	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0	
	Power consumption	W	8	9	19	19	27	49	53	
Fan	Air Flow Rate (High / Medium / Low)	m ³ /h	422 / 393 / 356	417 / 370 / 316	656 / 573 / 488	594 / 507 / 424	747 / 648 / 547	1195 / 1005 / 809	1195 / 1005 / 809	
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	31 / 30 / 29	31 / 30 / 29	33 / 32 / 30	35 / 33 / 31	38 / 36 / 34	44 / 39 / 36	44 / 39 / 36	
Indoor unit	Dimensions (W x H x D)	mm	835 x 280 x 203	835 x 280 x 203	990 x 315 x 223	990 x 315 x 223	990 x 315 x 223	1194 x 343 x 262	1194 x 343 x 262	
	Weight	kg	8.4	9.5	11.1	12.8	12.8	17	17	
Drainage	Connection	mm	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")				9.52 (3/8")			
	Gas Line	mm (inches)	12.7 (1/2")				15.9 (5/8")			
Electrical connections ⁽⁴⁾	Power wiring	mm ²	2 x 2.5 + T (L < 20 m)							
	Signal wiring	mm ²	3 x 0.75 (shielded)							

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



ON/OFF CONNECTOR
(CL 94 833)

⁽¹⁾ ON/OFF Connector required
(CL 94 833).



INDOOR UNITS Wall Split D4+



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-D36G/N1YB	MVD-D45G/N1YB	MVD-D56G/N1YB
Code			CL 23 212	CL 23 213	CL 23 214
Power supply		V, Hz	1N-, 220-240V, 50Hz		
Cooling ⁽¹⁾	Capacity	kW	3.6	4.5	5.6
	Power consumption	W	28	45	45
Heating ⁽²⁾	Capacity	kW	4	5	6.3
	Power consumption	W	28	45	45
Fan	Air Flow (High/Medium/Low)	m ³ /h	520 / 480 / 430	860 / 755 / 650	925 / 860 / 755
	Noise level (High/Medium/Low) ⁽³⁾	dB(A)	35 / 32 / 29	40 / 38 / 34	40 / 38 / 34
Indoor unit	Dimensions (W x H x D)	mm	915 x 290 x 210	1070 x 315 x 210	1070 x 315 x 210
	Weight	kg	12	16	16
Drainage	Connection	mm	Ø16	Ø16	Ø16
Connection pipes	Liquid Line	mm	6.35 (1/4")		9.52 (3/8")
	Gas Line	mm	12.7 (1/2")		15.9 (5/8")
Electrical connections ⁽⁵⁾	Power wiring	mm ²	2 x 2.5 + T (L < 20 m)		
	Signal wiring	mm ²	3 x 0.75 (shielded)		
Front panel	Standard		White		
	Optional shiny black		CL 94 331	CL 94 332	

Notes:

⁽¹⁾ Nominal cooling conditions : Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 8 m and a of height difference of 0 m.

⁽³⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.5 m height.

⁽⁴⁾ Maximum height from the unit base.

⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS

Floor Fan Coil Unit DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-22Z/DHN1-B	MVD-28Z/DHN1-B	MVD-36Z/DHN1-B	MVD-45Z/DHN1-B
Code			CL 23 420	CL 23 421	CL 23 422	CL 23 423
Power supply		F, V, Hz	1N-, 220-240V, 50Hz			
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5
	Power consumption	W	20	25	25	45
Heating ⁽²⁾	Capacity	kW	2.6	3.2	4	5
	Power consumption	W	20	25	25	45
Fan	Air Flow (High/Medium/Low)	m³/h	430 / 345 / 229	510 / 430 / 229	510 / 430 / 229	660 / 512 / 400
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	38 / 32 / 26	39 / 33 / 27	39 / 33 / 27	42 / 39 / 36
Indoor unit	Dimensions (W x H x D)	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
	Weight	kg	14	15	15	15
Drainage	Connection	mm	Ø16	Ø16	Ø16	Ø16
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")			
	Gas Line	mm (inches)	12.7 (1/2")			
Electrical connections ⁽⁴⁾	Power wiring	mm²	2 x 2.5 + T (L<20 m)			
	Signal wiring	mm²	3 x 0.75 (shielded)			

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1,5 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS

Floor unit with casing DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model	Front suction (F4)		MVD-222/ DHN1-F4	MVD-282/ DHN1-F4	MVD-362/ DHN1-F4	MVD-452/ DHN1-F4	MVD-562/ DHN1-F4	MVD-712/ DHN1-F4	MVD-802/ DHN1-F4		
	Button suction (F5)		MVD-222/ DHN1-F5	MVD-282/ DHN1-F5	MVD-362/ DHN1-F5	MVD-452/ DHN1-F5	MVD-562/ DHN1-F5	MVD-712/ DHN1-F5	MVD-802/ DHN1-F5		
Code	Front suction (F4)		CL 23 430	CL 23 431	CL 23 432	CL 23 433	CL 23 434	CL 23 435	CL 23 436		
	Button suction (F5)		CL 23 440	CL 23 441	CL 23 442	CL 23 443	CL 23 444	CL 23 445	CL 23 446		
Power supply	F, V, Hz		1N-, 220-240V, 50/60Hz								
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8		
	Power consumption	W	24	24	21	24	38	62	62		
Heating ⁽²⁾	Capacity	kW	2.4	3.2	4	5	6.3	8	9		
	Power consumption	W	23	24	19	24	41	65	63		
Fan	Air Flow (High / Medium / Low)	m ³ /h	530 / 456 / 400	569 / 485 / 421	624 / 522 / 375	660 / 542 / 440	1150 / 970 / 830	1380 / 1100 / 870	1332 / 1212 / 1023		
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	36 / 33 / 29	36 / 33 / 29	37 / 34 / 30	37 / 34 / 30	41 / 35 / 31	44 / 39 / 33	44 / 39 / 33		
Indoor unit	Dimensions (W x H x D)	F4	mm			1000 x 569 x 225		1200 x 596 x 225		1500 x 596 x 225	
		F5	mm			1000 x 677 x 220		1200 x 677 x 220		1500 x 677 x 220	
	Weight	F4	kg		29	29	35	35	40	40	41
		F5	kg		27.5	27.5	33	33	38.7	38.7	41
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")				9.52 (3/8")				
	Gas Line	mm (inches)	12.7 (1/2")				15.9 (5/8")				
Electrical connections ⁽⁴⁾	Power wiring	mm ²	2 x 2.5 + T (L < 20 m)								
	Signal wiring	mm ²	3 x 0.75 (shielded)								

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1,5 m height.

⁽⁴⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E
(CL 97 156)



INDOOR UNITS

Floor unit without casing DC



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MVD-22Z/DHN1-F3B	MVD-28Z/DHN1-F3B	MVD-36Z/DHN1-F3B	MVD-45Z/DHN1-F3B	MVD-56Z/DHN1-F3B	MVD-71Z/DHN1-F3B	MVD-80Z/DHN1-F3B	
Code			CL 23 450	CL 23 451	CL 23 452	CL 23 453	CL 23 454	CL 23 455	CL 23 456	
Power supply		F, V, Hz	1N-, 220-240V, 50/60Hz							
Cooling ⁽¹⁾	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8	
	Power consumption	W	24	24	21	24	38	62	62	
Heating ⁽²⁾	Capacity	kW	2.6	3.2	4	5	6.3	8	9	
	Power consumption	W	23	24	19	24	41	65	63	
Fan	Air Flow (High/Medium/Low)	m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1.150/970/830	1.380/1.100/870	1.380/1.100/870	
	Sound pressure (High / Medium / Low) ⁽³⁾	dB(A)	36 / 33 / 29	36 / 33 / 29	37 / 34 / 30	37 / 34 / 30	41 / 35 / 31	44 / 39 / 33	44 / 39 / 33	
Indoor unit	Dimensions (W x H x D)	mm	840 x 545 x 212	840 x 545 x 212	1040 x 545 x 212	1040 x 545 x 212	1340 x 545 x 212	1340 x 545 x 212	1340 x 545 x 212	
	Weight	kg	21	21	28	28	32	32	35	
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")				9.52 (3/8")			
	Gas Line	mm (inches)	12.7 (1/2")				15.9 (5/8")			
Electrical connections ⁽⁴⁾	Power wiring	mm²	2 x 2.5 + T (L < 20 m)							
	Signal wiring	mm²	3 x 0.75 (shielded)							

Notes:

⁽¹⁾ Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: Indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, pipe length of 8 m and a height difference of 0 m.

⁽³⁾ Sound pressure measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.

⁽⁴⁾ Maximum height from the unit base.

⁽⁵⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120B/BKP-E
(CL 97 142)



KJR-120C/BW-E
(CL 92 946)



IMM4
(CL 97 160-163)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



MD-AC-MBS-1
(CL 99 097)



MD-AC-KNX
(CL 94 792 /
CL 99 094-095)



IS-IR-KNX-1i
(CL 99 096)

BMS

WIFI



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

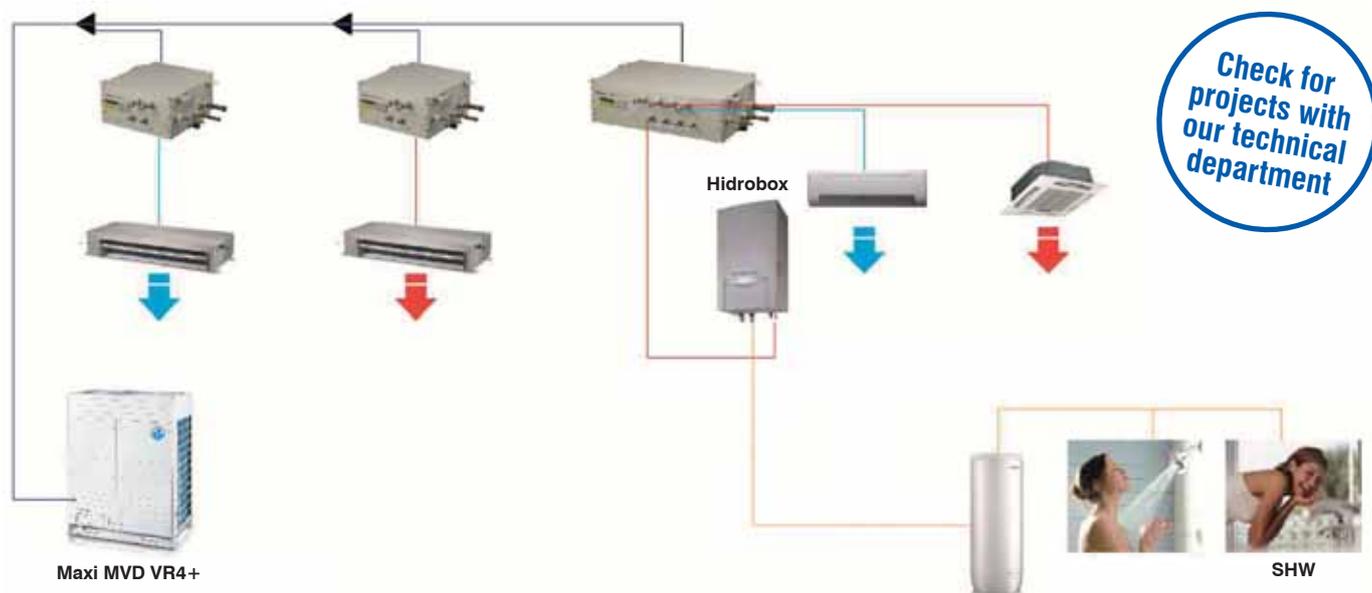
Accessories



KJR-150A/M-E
(CL 97 156)

HIDROBOX INDOOR UNIT MVD VR4+ Series

- Connected to a Maxi MVD VR4 + 3 pipes system, it allows to produce SHW.
- Water inlet temperatures between 25 and 45 °C.
- Compatible only with Maxi MVD VR4 + 3 pipes.



TECHNICAL SPECIFICATIONS

Model		MVD-W140MN1	
Code		CL 23 288	
Power supply		F, V, Hz	1N-, 220-240V, 50Hz
Production ACS ⁽¹⁾	Capacity	kW	14.0
	Power consumption	W	10
Sound pressure ⁽²⁾		dB(A)	26
Water inlet temperature		°C	25 ~ 45
Design Flow Rate		m ³ /h	2.4
Dimensions (W x H x D)		mm	900 x 500 x 373
Weight		kg	55
Drain connection		mm (inches)	DN15 (1/2")
Hydraulic connections		mm (inches)	DN25 (1")
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")
	Gas Line	mm (inches)	15.9 (5/8")
Electrical connections ⁽³⁾	Power wiring	mm ²	2 x 2.5 + T (L < 20 m)
	Signal wiring	mm ²	3 x 0.75 (shielded)

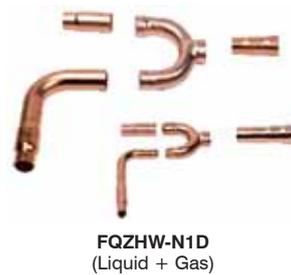
Notes:

- ⁽¹⁾ Nominal heating conditions: indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, 6 °C WB, Inlet water temperature 30 °C and outlet water temp. 35 °C.
- ⁽²⁾ Noise level measured in semi-anechoic chamber at 1 m front distance and 1.4 m height.
- ⁽³⁾ Power wiring recommended for L < 20 m, for longer distances it should be calculated.
- ⁽⁴⁾ It does not include recirculation pump.

DISTRIBUTORS

Code	Model	Description
INDOOR UNIT DISTRIBUTORS (FOR ALL SYSTEMS)		
TF 03 611	FQZHN-01D	TO < 23
TF 03 612	FQZHN-02D	23 ≤ TO < 46
TF 03 613	FQZHN-03D	46 ≤ TO < 92
TF 03 614	FQZHN-04D	92 ≤ TO < 135
TF 03 615	FQZHN-05D	135 ≤ TO < 180
TF 03 616	FQZHN-06D	180 ≤ TO
INTERVALS DISTRIBUTORS VR4+ (3 PIPES)		
TF 03 636	FQZHN-01SB	TO < 16.6
TF 03 637	FQZHN-02SB	16.6 ≤ TO < 33
TF 03 638	FQZHN-03SB	33 ≤ TO < 66
TF 03 639	FQZHN-04SB	66 ≤ TO < 92
TF 03 640	FQZHN-05SB	92 ≤ TO
DISTRIBUTORS OUTDOOR V5X+ (2 PIPES)		
TF 03 641	FQZHW-02N1D	Connection 2 Outdoor units
TF 03 642	FQZHW-03N1D	Connection 3 Outdoor units
TF 03 643	FQZHW-04N1D	Connection 4 Outdoor units
DISTRIBUTORS OUTDOOR VR4+ (3 PIPES)		
TF 03 644	FQZHW-02SB	Connection 2 Outdoor units
TF 03 645	FQZHW-03SB	Connection 3 Outdoor units
TF 03 646	FQZHW-04SB	Connection 4 Outdoor units

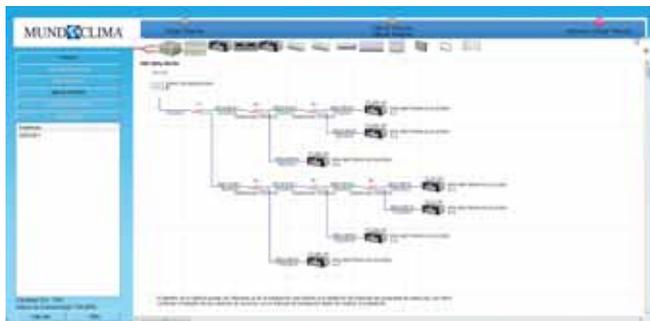
Note: A = Total Capacity (kW) of indoor units connected from that distributor.



SELECTION PROGRAM

Program of calculation and selection MVD systems that offers a fast and effective selection, allows us:

- To enter the basic information of the project, such as the name of the installation, the location, etc.
- The program allows to enter any model of the complete range of MVD indoor units, as well as all series of outdoor units.
- The design of the installation is showed in a detailed diagram where you can see all the units selected with their respective performances, the pipe size and the distributors to be installed.
- Allows two methods of calculation. The direct introduction of the thermal load or the introduction of different parameters as well as the area of the room, the estimated cooling or heating load rate.
- Calculation of the additional refrigerant charge to the system to be charged.
- Allows selection of any type of control, wireless, wired, centralized or BMS system.



MUNDOCLIMA
Estudio MVD

1. Parámetros del Proyecto

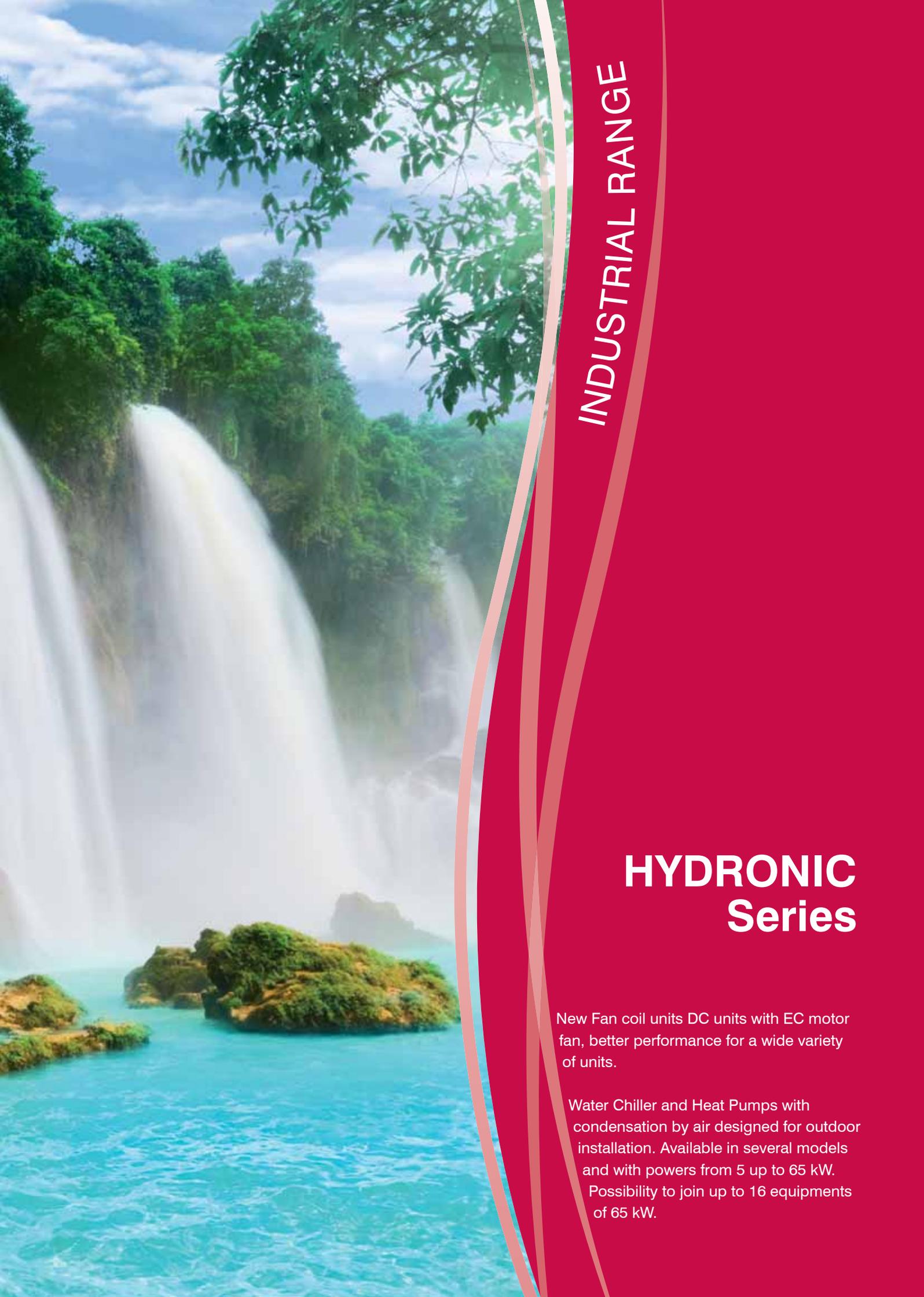
Nombre de Proyecto:	Nuevo Proyecto
País:	Spain
Localidad:	Barcelona
Dirección:	
Nombre:	
Nombre de Obra:	
Presión barométrica exterior en verano (Pa):	1013.00
Promedio velocidad del aire exterior en verano (m/s):	3.42
Temp. Bulbo Húmedo Exterior verano:	27.3
Temp. Bulbo Húmedo Exterior invierno:	24.9
Temp. Bulbo Seco Exterior verano:	34.9
Temp. Bulbo Húmedo Exterior invierno:	-3

2. Lista de Materiales

Modelo	Cant.	Descripción
MVD-542800N-V280L	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123345	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123346	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123347	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123348	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123349	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123350	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123351	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123352	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123353	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123354	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123355	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123356	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123357	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123358	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123359	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123360	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123361	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123362	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123363	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123364	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123365	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123366	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123367	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123368	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123369	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123370	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123371	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123372	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123373	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123374	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123375	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123376	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123377	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123378	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123379	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123380	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123381	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123382	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123383	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123384	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123385	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123386	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123387	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123388	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123389	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123390	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123391	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123392	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123393	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123394	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123395	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123396	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123397	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123398	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123399	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123400	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123401	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123402	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123403	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123404	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123405	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123406	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123407	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123408	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123409	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123410	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123411	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123412	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123413	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123414	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123415	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123416	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123417	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123418	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123419	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123420	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123421	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123422	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123423	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123424	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123425	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123426	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123427	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123428	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123429	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123430	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123431	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123432	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123433	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123434	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123435	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123436	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123437	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123438	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123439	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123440	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123441	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123442	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123443	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123444	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123445	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123446	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123447	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123448	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123449	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123450	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123451	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123452	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123453	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123454	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123455	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123456	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123457	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123458	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123459	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123460	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123461	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123462	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123463	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123464	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123465	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123466	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123467	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123468	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123469	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123470	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123471	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123472	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123473	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123474	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123475	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123476	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123477	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123478	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123479	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123480	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123481	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123482	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123483	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123484	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123485	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123486	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123487	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123488	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123489	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123490	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123491	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123492	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123493	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123494	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123495	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123496	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123497	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123498	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123499	2	Módulo MVD 54 (2) tuberías
MVD-542800N-V280L-123500	2	Módulo MVD 54 (2) tuberías







INDUSTRIAL RANGE

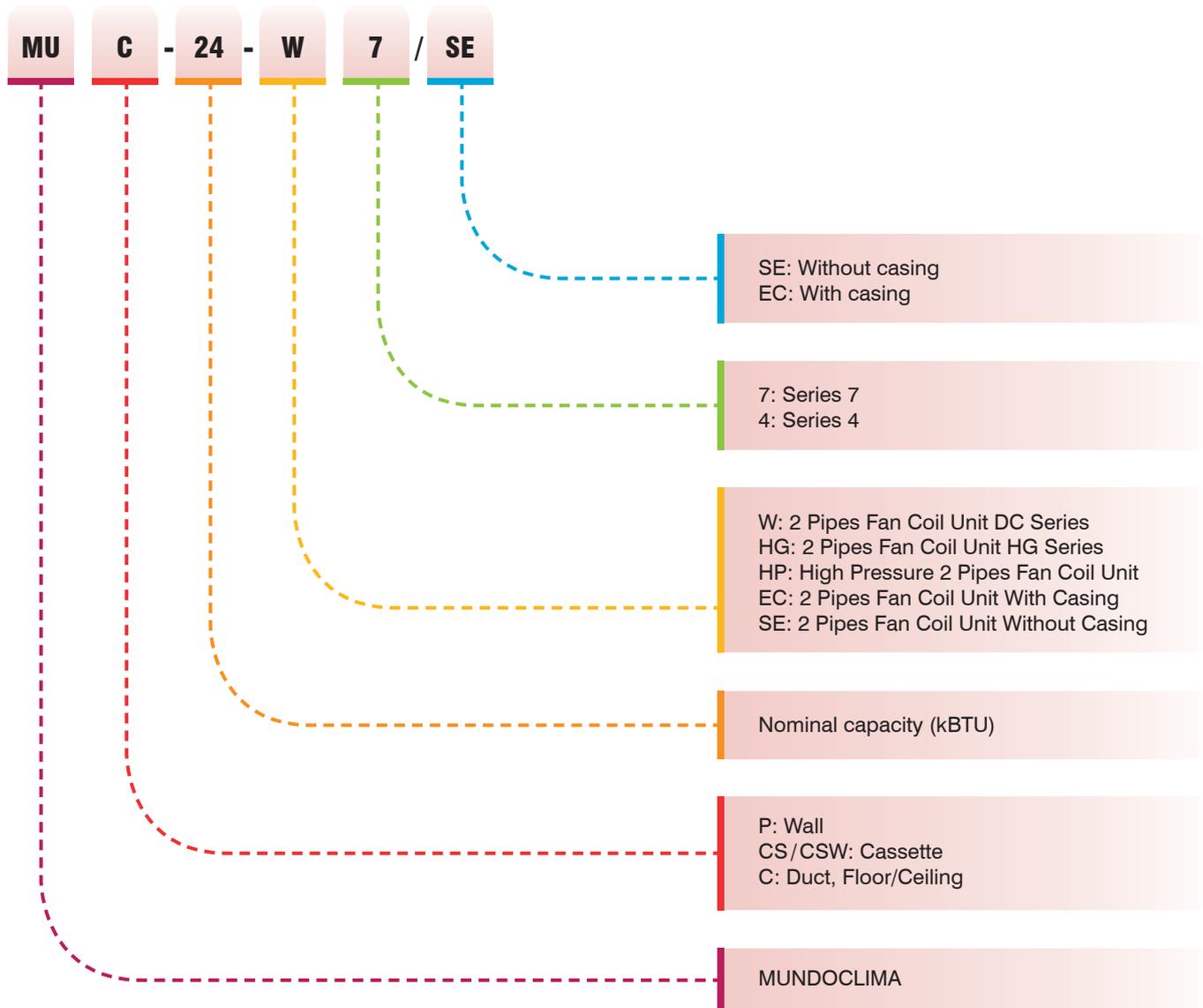
HYDRONIC Series

New Fan coil units DC units with EC motor fan, better performance for a wide variety of units.

Water Chiller and Heat Pumps with condensation by air designed for outdoor installation. Available in several models and with powers from 5 up to 65 kW. Possibility to join up to 16 equipments of 65 kW.

Fan coil units

Names



Fan coil units

Range of Products

Model		Capacity (x1000 BTU)																						
		7	9	11	12	14	16	18	19	20	21	24	25	31	32	36	38	42	43	44	48	54	68	
WALL																								
	MUP-W7	■	■		■			■																
CASSETTE																								
	MUCS-W7					■	■			■		■				■								
	MUCSW-HG							■			■						■					■		
DUCT, FLOOR/CEILING																								
	MUC-W7/SE	■	■				■		■			■												
	MUC-W7/CE	■	■				■		■			■												
	MUC-SE4												■		■		■					■		
	MUC-CE4	■		■			■									■		■						
HIGH PRESSURE DUCT																								
	MUC-HP4				■		■						■	■					■				■	■



WALL FAN COIL UNIT **DC**

MUP-W7 Series

NEW



RM05/BG(T)E-A
Included
(CL 92 868)



TECHNICAL SPECIFICATIONS

Model			MUP-07-W7	MUP-09-W7	MUP-12-W7	MUP-18-W7
Code			CL 04 315	CL 04 316	CL04317	CL 04 318
Cooling	Capacity (High / Medium / Low) ⁽¹⁾		kW 2.37 / 2.2 / 1.97	2.86 / 2.48 / 2.06	3.27 / 2.90 / 2.66	4.45 / 3.95 / 3.21
	Water flow		m ³ /h 0.378	0.454	0.562	0.765
	Water pressure drop		kPa 23.1	33.6	42	36.3
Heating	50 °C	Capacity (High / Medium / Low) ⁽²⁾	kW 3.15 / 2.85 / 2.35	3.54 / 2.92 / 2.49	4.29 / 3.77 / 3.35	5.90 / 5.17 / 4.18
		Water pressure drop	kPa 22	31.4	40	32.8
	70 °C	Capacity (High / Medium / Low) ⁽³⁾	kW 4.91 / 4.45 / 3.85	5.52 / 4.56 / 4.08	6.69 / 5.88 / 5.49	9.20 / 8.07 / 6.86
		Water pressure drop	kPa 27.5	34.4	41.9	35.1
Air flow rate (High / Medium / Low)			m ³ /h 436 / 410 / 320	523 / 427 / 349	650 / 550 / 504	950 / 820 / 670
Exchanger water volume			L 0.220	0.220	0.220	0.271
Power supply			V/F/ Hz 220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Consumption (High / Medium / Low) ⁽⁴⁾			W 11 / 10 / 9	14 / 11 / 9	22 / 16 / 14	32 / 22 / 15
Sound pressure (High / Medium / Low) ⁽⁵⁾			dB(A) 34 / 31 / 28	35 / 30 / 27	41.5 / 37.2 / 35.2	45 / 40.7 / 35.9
Max. working pressure			MPa 1.6	1.6	1.6	1.6
Water connections			inches 3/4"	3/4"	3/4"	3/4"
Drain connection			mm Ø20	Ø20	Ø20	Ø20
Dimensions (W x H x D)			mm 915 x 210 x 290	915 x 210 x 290	915 x 210 x 290	1070 x 210 x 316
Weight			kg 12	12	12	14.7

Notes:

- ⁽¹⁾ Cooling capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 7/12 °C; Ambient temp. 27 °C DB, 19 °C WB.
- ⁽²⁾ Heating capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 50/40 °C; Ambient temperature 20 °C.
- ⁽³⁾ Heating capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 70/60 °C; Ambient temperature 20 °C.
- ⁽⁴⁾ Consumption for each of the three air flow rates.
- ⁽⁵⁾ Sound pressure level measured in semi-anechoic chamber.

- The above design and specifications are subject to change of product improvement without prior notice.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)

Wired remote control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/BW-E
(CL 92 946)

Centralized controller



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

BMS



IS-IR-KNX-1i
(CL 99 096)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

WIFI

Accessories



KJR-150A/M-E
(CL 97 156)



CASSETTE FAN COIL UNIT

MUCS-W7 Series

NEW



TECHNICAL SPECIFICATIONS

Model			MUCS-14-W7	MUCS-16-W7	MUCS-20-W7	MUCS-24-W7	MUCS-36-W7	
Code			CL 04 415 CL 04 420	CL 04 416 CL 04 421	CL 04 417 CL 04 422	CL 04 418 CL 04 423	CL 04 419 CL 04 424	
Cooling	Capacity (High / Medium / Low) ⁽¹⁾	kW	3.93/ 3.07/2.48	4.24/ 3.31/2.67	5.77/ 4.5/3.63	7.00/ 5.32/4.34	10.64/ 8.09/6.60	
	Water flow	m ³ /h	0.676	0.729	0.992	1.204	1.830	
	Water pressure drop	kPa	12	9.4	28.0	23.0	36.0	
Heating	50 °C	Capacity (High/Medium/Low) ⁽²⁾	kW	5.34/ 4.00/3.15	5.77/ 4.33/3.4	7.85/ 6.12/4.65	9.52/ 7.43/5.55	14.47/ 11.29/8.44
		Water pressure drop	kPa	10.6	9.4	26.0	20.0	34.0
	70 °C	Capacity (High/Medium/Low) ⁽³⁾	kW	8.34/ 6.26/5.16	9.00/ 6.76/5.56	12.24/ 9.55/7.68	14.85/ 11.58/9.17	22.57/ 17.6/13.93
		Water pressure drop	kPa	11.9	10.5	28.4	23.3	36.5
Air flow rate (High / Medium / Low)			m ³ /h	717/ 502/359	785/ 550/393	1,255/ 879/628	1,596/ 1,117/798	1,850/ 1,295/925
Exchanger water volume			L	0.306	0.306	0.677	1.015	1.015
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Consumption			W	27	32	50	90	124
Sound pressure (High / Medium / Low) ⁽⁴⁾			dB(A)	44.8/ 36.2/28.8	46.6/ 37.9/30.3	44.9/ 36.8/28.2	48.8/ 39.7/34.3	50.5/ 41.9/34.2
Max. working pressure			MPa	1.6	1.6	1.6	1.6	1.6
Fresh air inlet			mm	Ø65	Ø65	Ø75	Ø75	Ø75
Water connections			inches	3/4"	3/4"	3/4"	3/4"	3/4"
Drain connection			mm	Ø25	Ø25	Ø32	Ø32	Ø32
Dimensions	Body (W x H x D)	mm	575x261x575	575x261x575	840x230x840	840x300x840	840x300x840	
	Panel (W x H x D)	mm	647x50x647	647x50x647	950x45x950	950x45x950	950x45x950	
Weight			kg	19	19	29	33	35.5

Notes:

⁽¹⁾Cooling capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 7/12 °C; Ambient temp. 27 °C DB, 19 °C WB.

⁽²⁾Heating capacity for each of the three air flow rates, the same water flow than in cooling and according to the conditions: Water inlet/outlet water temperature 50/40 °C; Ambient temperature 20 °C.

⁽³⁾Heating capacity for each of the three air flow rates, the same water flow than in cooling and according to the conditions: Water inlet/outlet water temperature 70/60 °C; Ambient temperature 20 °C.

⁽⁴⁾Sound pressure level measured in semi-anechoic chamber.

- Design and specifications are subject to change in order to product improvement without prior notice.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control



RM02A/BGE-A
(CL 92 867)

Wired remote control



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)



KJR-120C/BW-E
(CL 92 946)

Centralized controller

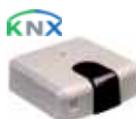


CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

BMS



IS-IR-KNX-1i
(CL 99 096)



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

WIFI

Accessories



KJR-150A/M-E
(CL 97 156)



CONNECTOR ON/OFF
(Mods. 14/16: CL 94 831)
(Mods. 20/24/36: CL 94 832)



3 ways valves with Bypass
(CO 05 506 + CO 05 509)

⁽¹⁾Digital Display LED: Except models 14 and 16.

⁽²⁾Compact size panel: Only 14 and 16 models.

⁽³⁾Connector needed ON/OFF (CL 94 831-832)



CASSETTE FAN COIL UNIT

MUCSW-HG Series



Remote control included (CL 92 960)



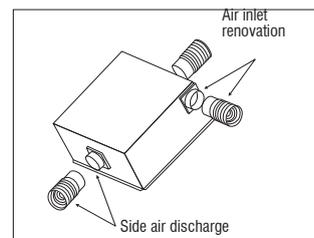
Protection grille on the fan to avoid objects entry.



Water inlets and outlets.



Easy maintenance. The fan and motor can be removed from the panel.



Pre-marking of holes for renovation and air delivery.

TECHNICAL SPECIFICATIONS

Model			MUCSW-18-HG	MUCSW-21-HG	MUCSW-42-HG	MUCSW-48-HG
Code			CL 04 405	CL 04 406	CL 04 410	CL 04 411
Cooling capacity	Total	W	5100	6100	11500	13500
	Sensible	W	3600	4300	8100	9500
Heating capacity		W	5300	6300	12600	14700
Absorbed power		W	76	90	189	220
Air flow rate		m ³ /h	850	1020	2040	2380
Sound level (max.)		dB(A)	44	45	51	53
Water flow		l/h	877	1049	1978	2322
Battery charge loss		Kpa	16	18	19	20
Pipes (inlet / outlet)		inches	3/4"	3/4"	3/4"	3/4"
Dimensions (W x H x D)		mm	701 x 290 x 701	701 x 290 x 701	811 x 290 x 811	811 x 290 x 811
Weight		kg	29.5	29.5	37	37

*Power supply: 220V-240V/1/50Hz.

Nominal capacity COLD: Bulb temperature 27 °C. Wet Bulb Temperature: 19.5 °C.

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wired and / or centralized control



Wired control (CL 92 984)

Communication plate



RS485⁽¹⁾ (CL 92 491)

Accessories



3 ways valves with Bypass (CO 05 506 + CO 05 509)

⁽¹⁾ Required to control up to 32 devices with a single wired control.



UNIVERSAL FAN COIL UNIT HORIZONTAL AND VERTICAL

MUC-W7/SE Series

MUC-W7/CE Series

NEW



FEATURES

- Universal 2 Pipes Fan Coil Unit.
- Floor or ceiling installation (vertical / horizontal).
- Low noise and low-energy consumption DC fan motor.
- Front air inlet (Version CE).
- Without the need of using supporting feet (Version CE).
- Includes condensate collecting tray in L-form for the valve.
- Hydraulic connections on right side (front view).

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control⁽¹⁾



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)

Wired control⁽²⁾

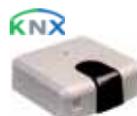
Centralized control⁽²⁾



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



IS-IR-KNX-1i
(CL 99 096)

BMS⁽¹⁾



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

WIFI⁽¹⁾

Accessories



KJR-150A/M-E⁽²⁾
(CL 97 156)



FCUKZ-03
(CL 94 974)



3 ways valves with Bypass
(CO 05 506 + CO 05 509)

(1) Kit FCUKZ-03 (CL 94 974) + Wired Control KJR-29B1 / BK-E (CL 92 869) is required.

⁽²⁾FCUKZ-03 (CL 94 974) kit needed.

MUC-W7 Series

TECHNICAL SPECIFICATIONS

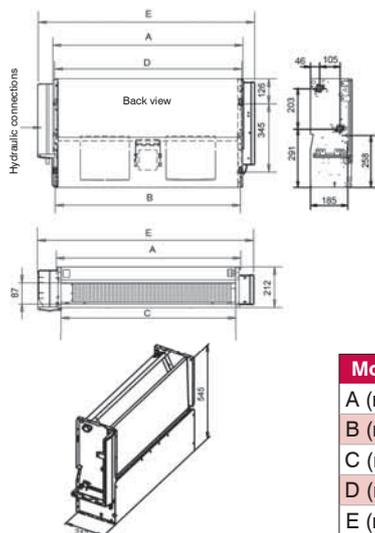
Model	Without casing (Version SE)		MUC-07-W7/SE	MUC-11-W7/SE	MUC-16-W7/SE	MUC-19-W7/SE	MUC-24-W7/SE	
	With casing (Version CE)		MUC-07-W7/CE	MUC-11-W7/CE	MUC-16-W7/CE	MUC-19-W7/CE	MUC-24-W7/CE	
Code	Without casing (Version SE)		CL 04 580	CL 04 581	CL 04 582	CL 04 583	CL 04 584	
	With casing (Version CE)		CL 04 590	CL 04 591	CL 04 592	CL 04 593	CL 04 594	
Cooling	Capacity (High / Medium / Low) ⁽¹⁾	kW	1.87/1.50/1.20	3.27/2.60/1.86	3.97/2.88/2.61	5.64/4.01/3.06	7.85/6.08/4.92	
	Water flow	m³/h	0.321	0.562	0.693	0.970	1.135	
	Water pressure drop	kPa	9.60	19.30	30.10	16.60	31.40	
Heating	50 °C	Capacity (High / Medium / Low) ⁽²⁾	kW	2.53/1.91/1.47	4.58/3.49/2.47	5.64/4.03/3.04	8.23/6.01/4.54	11.69/8.72/6.97
		Water pressure drop	kPa	7.7	16.6	25.3	14.5	25.6
	60 °C	Capacity (High) ⁽³⁾	kW	3.31	6.06	7.48	10.97	15.62
		Water pressure drop	kPa	6.18	14.36	22.47	13.60	25.02
Air flow rate (High / Medium / Low)		m³/h	425/360/320	680/580/510	765/650/570	1.020/870/765	1.530/1.300/1.150	
Static pressure	Version SE	Pa	12	12	12	12	12	
	Version CE	Pa	0	0	0	0	0	
Exchanger water volume		L	0.195	0.259	0.344	0.471	0.471	
Power supply		V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
Consumption		W	16	33	29	39	119	
Sound pressure ⁽⁴⁾	Version SE (High / Medium / Low)	dB(A)	30 / 26 / 20	34 / 30 / 24	36 / 32 / 26	40 / 34 / 28	43 / 37 / 31	
	Version CE (High / Medium / Low)	dB(A)	31 / 27 / 21	35 / 31 / 25	37 / 33 / 27	41 / 35 / 29	44 / 38 / 32	
Operation maximum pressure		MPa	1.6	1.6	1.6	1.6	1.6	
Inlet water maximum temperature		°C	65	65	65	65	65	
Water connections		inch	3/4"	3/4"	3/4"	3/4"	3/4"	
Drain connection		mm	Ø 16					
Dimensions	SE Version (W x H x D)	mm	550x545x212	750x545x212	950x545x212	1,250x545x212	1,250x545x212	
	Version CE (W x H x D)	mm	800x592x220	1,000x592x212	1,200x592x220	1,500x592x220	1,500x592x220	
Weight	Version SE	kg	19	23.5	27	34	34	
	Version CE	kg	24.4	34.2	34.2	40	40	

Notes:

- ⁽¹⁾ Cooling capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 7/12 °C; Ambient temp. 27 °C DB, 19 °C WB.
 - ⁽²⁾ Heating capacity for each of the three air flow rates and according to the conditions: Water inlet/outlet water temperature 50/40 °C; Ambient temperature 20 °C.
 - ⁽³⁾ Heating capacity for the high air flow rate, the same water flow rate as in cooling and according to conditions: Water inlet/outlet water temperature 60/50 °C; Ambient temperature 20 °C.
 - ⁽⁴⁾ Sound pressure level measured in semi-anechoic chamber.
- The above design and specifications are subject to change of product improvement without prior notice.

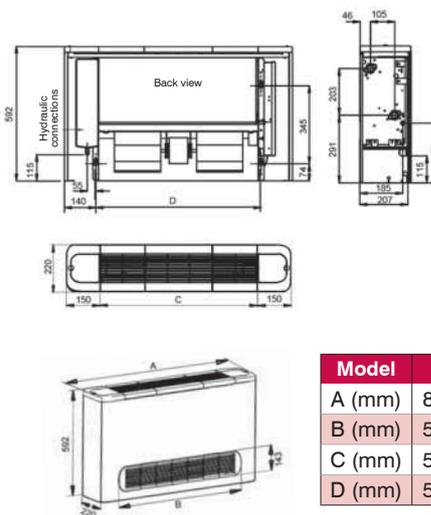
DIMENSIONS

MUC-W7/SE Series



Model	7	11	16	19	24
A (mm)	550	750	950	1250	
B (mm)	526	726	926	1226	
C (mm)	500	700	900	1200	
D (mm)	532	732	932	1232	
E (mm)	686	886	1086	1386	

MUC-W7/CE Series



Model	7	11	16	19	24
A (mm)	800	1000	1200	1500	
B (mm)	584	784	984	1284	
C (mm)	500	700	900	1200	
D (mm)	526	726	926	1226	

UNIVERSAL FAN COIL UNIT HORIZONTAL AND VERTICAL

MUC-CE4



MUC-SE4



FEATURES

- The connection layout can be modified. If a pipe connection is available on the left side and the customer wishes the connection to the right, the battery can be removed from the unit and modified as shown in figure (A).
- The bitubular units can be transformed into four pipes units. If you have a bitubular unit, install an additional hot water battery to convert the unit to four pipes, as shown in figure (B).
- Remove the box (4 upper screws and 2 lower screws). The unit will be exposed as in figure (A).

ADDITIONAL BATTERY

- Additional heating battery (for water), to be installed inside the equipment (LC04522 to LC04528).

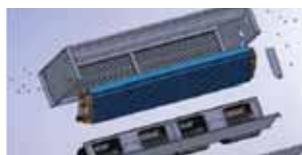


Figure A



Figure B

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control⁽¹⁾



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)

Wired control⁽²⁾



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)

Centralized control⁽²⁾

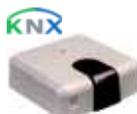


CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

BMS⁽¹⁾



IS-IR-KNX-1i
(CL 99 096)



TADO°
(CO 14 910)

WIFI⁽¹⁾



MOMIT COOL
(CO 28 130)

Accessories



Set of feet MUC-CE4
(LC 04 530)



KJR-150A/M-E⁽²⁾
(CL 97 156)



FCUKZ-03, 2 pipes (CL 94 974)
FCUKZ-04, 4 pipes (CL 94 975)



3 ways valves with Bypass
(CO 05 506 + CO 05 509)



Valves tray
(LC 04 529)

⁽¹⁾ Kit FCUKZ-03 (CL 94 974-975) + Wired Control KJR-29B1 / BK-E (CL 92 869) is required.

⁽²⁾ Kit FCUKZ (CL 94 974-975) is required.

TECHNICAL SPECIFICATIONS

MUC-CE4 / SE4 Series

SERIE CE4 / SE4			7	11	16	25	32	38	44
Code with casing			CL 04 561	CL 04 562	CL 04 564	–	CL 04 567	CL 04 568	–
Code without casing			–	CL 04 552	–	CL 04 556	CL 04 557	CL 04 558	CL 04 559
Nominal air flow	H	m ³ /h	340	510	850	1360	1700	2040	2380
	M		270	400	670	1080	1360	1630	1900
	L		200	300	510	810	1000	1220	1430
Cooling capacity	H	kW	1.95	2.83	4.55	7.2	9	10.8	12.6
	M		1.7	2.4	4.0	6.3	7.6	9.0	11.0
	L		1.4	1.9	3.3	5.1	6.2	7.3	8.9
Sensitive cooling capacity	H	kW	1.5	2.0	3.1	4.9	6.2	7.5	8.5
	M		1.4	1.9	2.8	4.4	5.4	6.6	7.9
	L		1.2	1.7	2.5	3.8	4.7	5.5	6.6
Heating capacity	H	kW	3.2	4.3	7.5	12.8	15.1	17.8	20.0
	M		2.7	3.8	6.1	10.1	12.0	14.2	17.6
	L		2.1	2.9	4.7	7.7	9.1	10.8	13.4
Water flow		l/m	5.6	8.1	13.0	20.6	25.8	31.0	36.1
Sound level		dB(A)	37	39	43	46	48	50	52
Voltage			1N-220V-50Hz						
Input power		W	37	52	76	134	152	189	228
Hydraulic pressure loss		kPa	8	17	37	30	36	47	65
Drainage pipe		mm	20						
Connection	Inlet	inches	3/4"						
	Output	inches	3/4"						
Weight	Net	kg	35.7	38.8	42.7	53.8	60.9	64.8	68.7
	Gross	kg	37.3	40.5	44.7	56.2	63.7	67.8	72.0

Remarks:

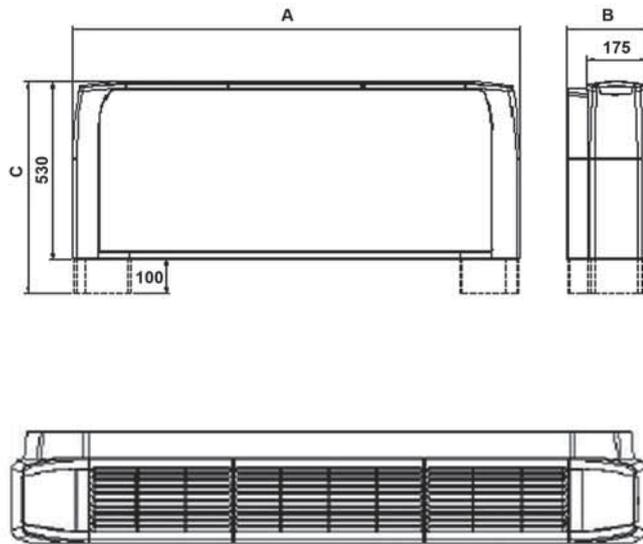
1. Cooling capacity with air inlet temperature by 27 °C DB/ 19.5 WB, cold water inlet by 7 °C and temperature difference of 7 °C.
2. Heating capacity with inlet air temperature of 21 °C DB, water inlet at 60 °C.
3. Sound level measured at <17 dB (A).



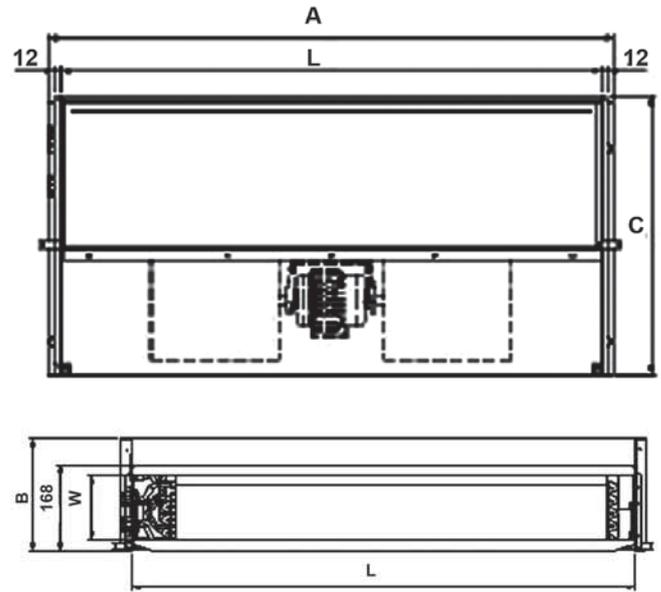
DIMENSIONS

MUC-CE4 / SE4 Series

MUC-CE4 Series



MUC-SE4 Series



Model	Width (A)	Prof. (B)	Height (C)	Grille (L)
MUC-07-CE4	920	230	630	604
MUC-11-CE4	1,020	230	630	704
MUC-16-CE4	1,220	230	630	904
MUC-32-CE4	1,820	230	630	1,504
MUC-38-CE4	2,020	230	630	1,704

Model	Width (A)	Prof. (B)	Height (C)	Grille (L)	Grille (w)
MUC-11-SE4	719	220	508	675	125
MUC-25-SE4	1,219	220	508	1,175	125
MUC-32-SE4	1,519	220	508	1,475	125
MUC-38-SE4	1,719	220	508	1,675	125
MUC-44-SE4	1,719	220	508	1,675	125

FLOOR OR WALL INSTALLATION



INSTALLATION IN THE CEILING (SUSPENSION)



HIGH PRESSURE DUCT

MUC-HP4 Series



FEATURES

Evaporating Coil

The heat exchanger has been designed using special software and factory testing to ensure high performance. It has a reverse flow design which increases its efficiency. Made of copper tube without weldings and high efficiency aluminum fins.

Filter

It has a 3-5 mm thickness filter built-in with aluminum bracket.

For larger models, the filter will consist of two sections to increase resistance. The filter is removable at the button to easy cleaning and maintenance.

Condensate collecting tray

The condensate tray is made of steel and located on the bottom plate. It has an insulation of 5 mm thickness. The double insulation guarantees the absence of condensates.

ADDITIONAL BATTERY

Module with additional heating battery (water), to install in the drive of the equipment (LC04571 to LC04577).

OPTIONALS

More information of optionals in section "CONTROL SYSTEMS"

Wireless control⁽¹⁾



RM05/BG(T)E-A
(CL 92 868)



RM02A/BGE-A
(CL 92 867)

Wired control⁽²⁾



KJR-29B1/BK-E
(CL 92 869)



KJR-86C-E
(CL 92 870)



KJR-12B/DP(T)-E
(CL 94 848)

Centralized control⁽²⁾

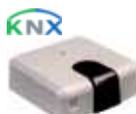


CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)

BMS⁽¹⁾



IS-IR-KNX-1i
(CL 99 096)

WIFI⁽¹⁾



TADO°
(CO 14 910)



MOMIT COOL
(CO 28 130)

Accessories



KJR-150A/M-E⁽²⁾
(CL 97 156)



FCUKZ-03, 2 pipes (CL 94 974)
FCUKZ-04, 4 pipes (CL 94 975)



3 ways valves with Bypass
(CO 05 506 + CO 05 509)

(1) Kit FCUKZ (CL 94 974-975) + Wired Control KJR-29B1 / BK-E (CL 92 869) is required.

⁽²⁾FCUKZ (CL 94 974-975) kit is needed.

MUC-HP4 Series

TECHNICAL SPECIFICATIONS

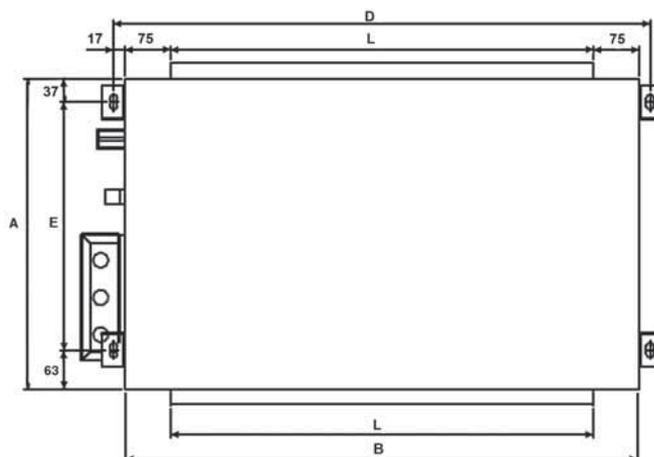
Model		MUC-12-HP4	MUC-16-HP4	MUC-25-HP4	MUC-31-HP4	MUC-43-HP4	MUC-54-HP4	MUC-68-HP4	
Code		CL 04 571	CL 04 572	CL 04 573	CL 04 574	CL 04 575	CL 04 576	CL 04 577	
Nominal air flow	H	m³/h	680	1,020	1,360	1,700	2,380	3,060	4,080
	M		510	765	1,020	1,275	1,785	2,295	3,060
	L		340	510	680	850	1,190	1,530	2,010
Total capacity of refrigeration	H	kW	3.7	4.9	7.5	9.3	12.8	15.9	20.1
	M		3.0	4.0	6.1	7.5	10.4	12.9	16.3
	L		2.2	2.9	4.5	5.6	7.7	9.5	12.1
Sensitive refrigeration capacity	H	kW	2.6	3.6	5.4	6.6	9.1	11.5	14.6
	M		2.1	2.9	4.3	5.3	7.3	9.2	11.7
	L		1.5	2.1	3.2	3.9	5.4	6.8	8.6
Heating capacity	H	kW	5.5	7.5	11.3	13.9	19.1	24.2	30.7
	M		4.4	5.9	8.9	11.0	15.1	19.2	24.3
	L		3.0	4.2	6.3	7.7	10.6	13.4	17.0
Water flow	m³/h	0.636	0.846	1.302	1.608	2.202	2.736	3.456	
Hydraulic pressure loss	kPa	13.6	22.9	10.8	15.7	32.1	9	11.1	
Total cooling capacity		2	2	2	2	2	2	2	
Fan diameter	mm	145	145	180	180	200	225	225	
Max. current consump.	W	88	143	202	256	333	485	715	
Current	A	0.4	0.7	0.9	1.2	1.5	2.2	3.3	
Static pressure	Pa	62	62	81	103	117	132	122	
Exchanger connections		Rc3/4"							
Dimensions (mm)	Prof.	500	500	550	550	620	620	670	
	Width	825	825	1,000	1,000	1,200	1,400	1,400	
	High	260	260	315	315	315	350	400	
Weight	kg	28.5	29.30	39.90	40.15	49.20	59.90	63.95	
Sound pressure	dB(A)	44	47	52	52	60	62	66	
Power supply		220-150							

Remarks:

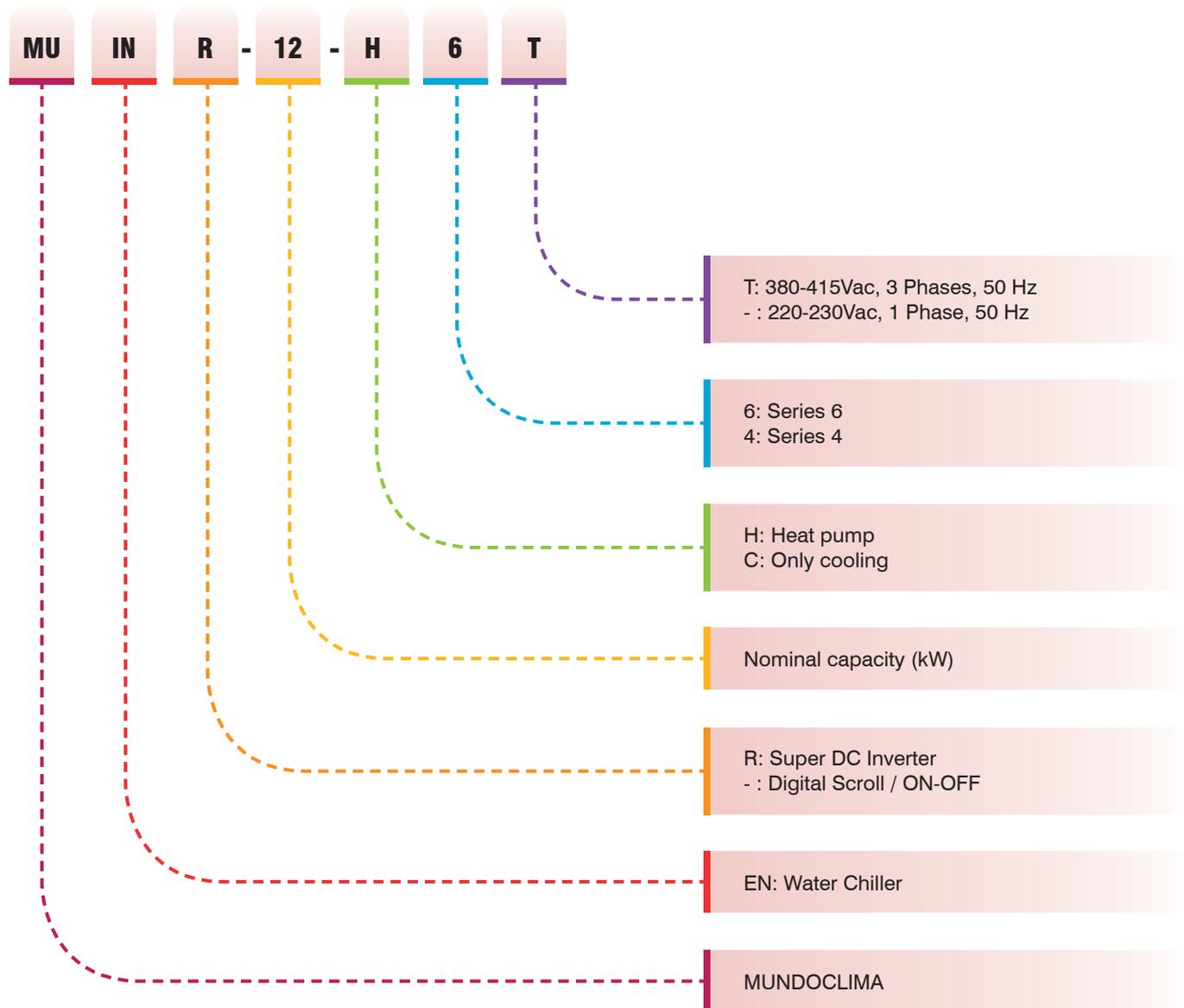
1. Cooling: inlet air 27 °C DB / 19.5 °C WB, water inlet 7 °C, water outlet 12 °C.
2. Heating: inlet air 21 °C, water inlet 60 °C.

DIMENSIONS

Model	Prof.	Width	Height	Upper hole	Upper hole	Port	
	A	B	C	D	E	Wide L	Height W
12	500	825	260	860	400	675	185
16	500	825	260	860	400	675	185
25	550	1000	315	1035	450	850	240
31	550	1000	315	1035	450	850	240
43	620	1200	315	1235	520	1050	240
54	620	1400	350	1435	520	1250	275
64	670	1400	400	1435	570	1250	325



Water Chillers Names



Water Chillers

Range of Products

	Model	Capacity (kW)								
		5	7	10	12	14	16	30	65	
Axial Air/Water		MUENR-H6	■	■	■	■	■	■		
Modular Air/Water		MUEN-H6T							■	
										■

Note:
For higher powers, up to 16 MUEN-H6T modular units can be combined.



INVERTER WATER CHILLER MUENR-H6 Series

DC INVERTER FAN MOTOR AND COMPRESSOR

All range equipments include compressors and fan motors DC Inverter, in this way the performance for middle frequency system is improved and a more sensitive and effective control is assured.

HYDRAULIC MODULE

Hydraulic module is fully integrated and equipped with hydraulic components such as expansion tank, plate-type heat exchanger and water circulating pump.

HIGH EFFICIENCY WATER CIRCULATING PUMP

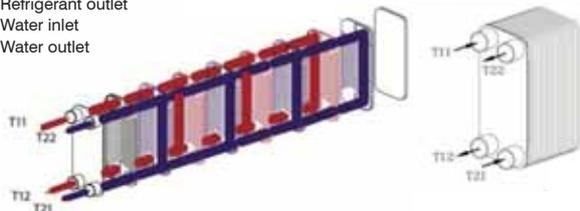
With the new water circulating pump in compliance with the Ecodesign Directive ERP, power consumption is reduced.

PLATE-TYPE HEAT EXCHANGER

The plate-type heat exchanger is made of AISI 316 stainless steel to ensure high heat exchange efficiency.



T11 Refrigerant inlet
T12 Refrigerant outlet
T21 Water inlet
T22 Water outlet



OPTIONALS

More information of optionals
in the section "CONTROL SYSTEMS"

Wired remote control

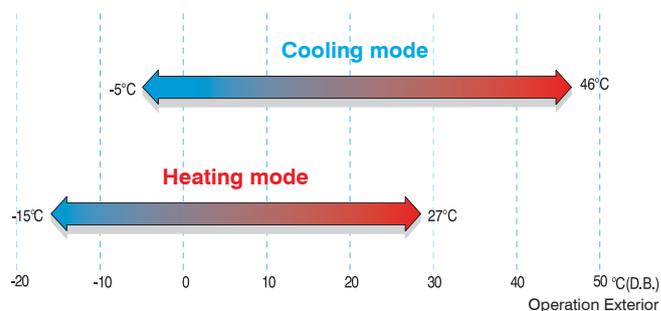


KJR-120F1/BMK-E
(CL 92 340)



WIDE RANGE OF OPERATING TEMPERATURES

The MUENR-H6 equipment can operate in extreme temperature conditions, in heating mode up to a temperature of -15 °C and in cooling mode up to 46 °C.



INTEGRATED AND COMPACT DESIGN

Fully integrated and built-in hydraulic module, such as expansion tank, plate type heat exchanger, water circulating pump, etc. It saves installation space and costs.

REMOTE CONTROL ON/OFF FUNCTION

Possibility of a ON/OFF function for the unit and selecting the operation mode using a potential free signal.

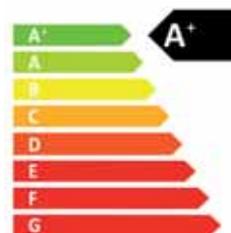
WATER PUMP STARTS/STOPS MANUAL FUNCTION.

Press "Check" button in the indoor PCB for 3 s to start the water pump operation when the unit is in standby. Press "Check" button for 3 s again to stop the water pump.

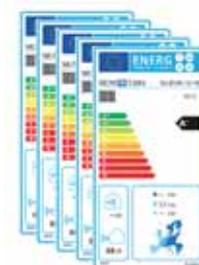
MUENR-H6 Series

ENERGY LABELING A+

Thanks to the plate heat exchanger, the high efficiency water circulating pump, the compressor and the fan motor DC Inverter, power consumption is reduced and the operation of the unit is optimized. The equipment has an energy efficiency rate of A+ when heating at 35 °C.



ENERGY EFFICIENCY CLASS A+



Model				MUENR-05-H6	MUENR-07-H6	MUENR-10-H6	MUENR-12-H6	MUENR-12-H6T	MUENR-14-H6T	MUENR-16-H6T	
Code				CL 25 620	CL 25 621	CL 25 622	CL 25 623	CL 25 626	CL 25 627	CL 25 628	
Power supply			V/Ph/Hz	220 - 240 / 1N / 50				380 - 415 / 3N / 50			
Cooling	Conditions 1 ⁽¹⁾	Capacity (min. - max.)	kW	5.0 (1.9~5.8)	7.0 (2.1~7.8)	10.0 (2.9~10.5)	11.2 (3.1~12.0)	11.2 (3.1~12.0)	12.5 (3.3~14.0)	14.5 (3.5~15.5)	
		Consumption	kW	1.55	2.25	2.95	3.50	3.38	3.90	4.70	
		EER	kW	3.23	3.11	3.39	3.20	3.31	3.20	3.10	
	Conditions 2 ⁽²⁾	Capacity	kW	5.60	8.00	10.60	12.20	12.20	14.20	15.60	
		Consumption	kW	1.15	1.85	2.30	2.65	2.60	3.10	3.60	
		EER	kW	4.87	4.32	4.24	4.60	4.70	4.58	4.33	
		SEER	kW	5.83	6.07	5.71	6.37	6.18	6.69	6.78	
Heating	Conditions 3 ⁽³⁾	Capacity (min. - max.)	kW	6.2 (2.1~7.0)	8.0 (2.3~9.0)	11.0 (3.2~12.0)	12.3 (3.3~13.2)	12.3 (3.3~13.2)	13.8 (3.5~15.4)	16.0 (3.7~17.0)	
		Consumption	kW	1.90	2.50	3.14	3.78	3.72	4.25	4.85	
		COP	kW	3.26	3.20	3.50	3.25	3.31	3.25	3.30	
	Conditions 4 ⁽⁴⁾	Capacity	kW	6.20	8.60	11.50	13.00	13.00	15.10	16.50	
		Consumption	kW	1.35	2.10	2.65	2.92	2.85	3.35	3.92	
		COP	kW	4.60	4.10	4.34	4.45	4.56	4.51	4.21	
		SCOP	kW	3.55	3.46	3.34	3.46	3.66	3.78	3.39	
Energy rating at low temperature (35 °C / °Fs)				A+ / 138.9%	A+ / 135.3%	A+ / 130.7%	A+ / 135.4%	A+ / 143.5%	A+ / 148.3%	A+ / 132.6%	
Max. current			A	11.40	13.70	25.00	26.00	8.90	9.6	10.1	
Compressor	Model			SNB172FJGMC			ATQ420D1UMU			ATQ420D2UMU	
	Brand			Mitsubishi Electric			GMCC			GMCC	
	Refrigerant oil	Type	Amount	ml	FV50S	FV50S	VG74	VG74	VG74	VG74	VG74
Fan	Type / Motor / Amount			AXIAL / DC / 1			AXIAL / DC / 2				
	Air flow rate			m ³ /h	5,100	5,100	7,000	7,000	7,000	7,000	7,000
Plate-type heat exchanger	Water flow (min ~ max)			m ³ /h	0.86 (0.77~0.95)	1.24 (1.08~1.54)	1.72 (1.54~1.89)	1.92 (1.72~2.11)	1.92 (1.72~2.11)	2.15 (1.93~2.36)	2.49 (2.24~2.73)
	Water volume			L	0.53	0.53	0.7	0.78	0.78	0.78	1.06
	Water pressure drop			kPa	15	15	18	18	18	18	19
Water pump	Model			RS15/6 RKC	RS15/6 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC	
	Maximum flow rate:			m ³ /h	3.3	3.3	4	4	4	4	
	Height			m	5.5	5.5	7.5	7.5	7.5	7.5	
Expansion tank	Water volume			L	2	2	3	3	3	3	
Max/min water pressure inlet ⁽⁵⁾			kPa	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500	
Sound pressure ⁽⁶⁾			dB(A)	58	58	59	59	62	62	62	
Sound power ⁽⁶⁾			dB(A)	63	66	67	68	68	70	72	
Dimensions (W x H x D)			mm	990 x 966 x 354			970 x 1327 x 400				
Weight			kg	81	81	110	110	110	111	111	
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Amount			kg	2.5	2.5	2.8	2.8	2.8	2.9	
Connection wiring			Power supply	mm ²	2 x 2.5 + T		2 x 4 + T		4 x 2.5 + T		
Hydraulic connections			Water inlet/outlet temperature	inch	1" / 1"		1-1/4" / 1-1/4"				
Operating temperature range	Cooling			°C	- 5 ~ 46						
	Heating			°C	- 15 to 27 (under 5 °C antifreeze should be added)						
Water outlet temperature range	Cooling			°C	In delivery 4 ~ 15 ⁽⁷⁾						
	Heating			°C	In delivery 40 ~ 55 ⁽⁸⁾						

Notes:

- ⁽¹⁾ Conditions 1: Water inlet/outlet temperature: 12 / 7 °C, outdoor temperature 35 °C DB.
- ⁽²⁾ Conditions 2: Water inlet/outlet temperature: 23 / 18 °C, outdoor temperature 35 °C DB.
- ⁽³⁾ Conditions 3: Water inlet/outlet temperature: 40 / 45 °C, outdoor temperature 7 °C DB / 6 °C WB / 85% RH
- ⁽⁴⁾ Conditions 4: Water inlet/outlet temperature: 30 / 35 °C, outdoor temperature 7 °C DB / 6 °C WB / 85% RH
- ⁽⁵⁾ Pressure levels to which pressure switches are activated.
- ⁽⁶⁾ Measured at 1 m distance in open field.
- ⁽⁷⁾ The machine controls the return temperature, so that the minimum setting temperature is 10 °C, the 4 °C are for air outlet.
- ⁽⁸⁾ The machine controls the return temperature, so that the maximum setting temperature is 50 °C, the 55 °C are in delivery.



WATER CHILLERS MUEN-H6 Digital Scroll

DIGITAL SCROLL COMPRESSOR COPELAND®

In traditional air cooling systems the output capacity is monitored by on / off compressor control. The accuracy of the control mode is not very good and the compressor starts and stops frequently, which is not too good for its useful life.

The Digital Scroll air-cooled system breaks the traditional design. It is now manufactured with a parallel connection of a digital Scroll compressors and one (or two) fixed Scroll compressors.

The system can achieve a linear fit of its capacity, from 0.5 % to 100 %, this range is one of the larger from the sector. When the system is operating at partial load, it is possible to adjust accurately the cooling or heating power.

OPERATION UNDER LOW TEMPERATURES

Thanks to control condensation fan, units can operate in both cooling and heating up to -10 °C for outdoor temperature.

MODULAR SYSTEM

Modular design that allows up to 16 units can operate together, it can form an equipment of up to 1 024 kW.



EASY CONNECTION

Easy connection between the master and slave units. All units can be connected via a wired remote control (included with each unit) using a three pole shielded cable.

OPTIONAL

More information of optionals in the section "CONTROL SYSTEMS"

Wired remote control



KJR-120D/BMK-E (MODBUS)
(CL 97 076)



30 kW



KJR-120D/BMK-E
Included
(CL 92 266)



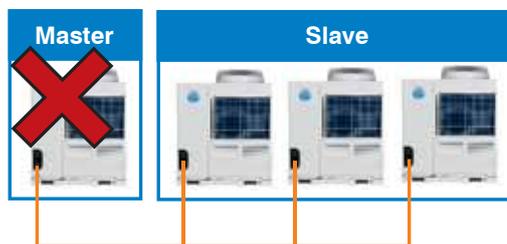
65 kW

SAFEGUARD FUNCTION

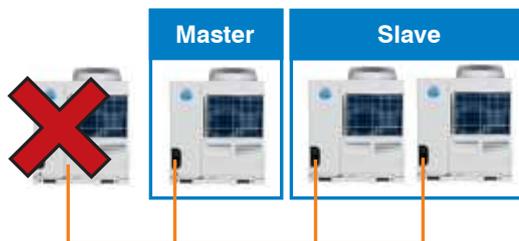
If the unit gives an error code (E*)

- If it is in the master unit, all units stop (a slave unit can be configured as master unit to activate the system temporarily).

If the error is in a slave unit, just that unit stops.



If the unit gives a protection code (P *), the unit stops but the rest keep ongoing, regardless of whether it is or not the master unit (except PE and P9 codes).



MUEN-H6 Digital Scroll Series

TECHNICAL SPECIFICATIONS

Model			MUEN-30-H6T	MUEN-65-H6T	
Code			CL 25 616	CL 25 617	
Power supply		F, V, Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz	
Cooling ⁽¹⁾	Capacity	kW	30	65	
	Power consumption	kW	10	20.4	
	Current	A	16.3	36.5	
	Max. current	A	21.1	54.5	
	EER	W/W	3.00	3.18	
	SEER	W/W	3.21	3.15	
Heating ⁽²⁾	Capacity	kW	32	69	
	Power consumption	kW	9.8	21.5	
	Current	A	16	37.2	
	Max. current	A	21.1	54.5	
	COP	W/W	3.27	3.21	
	SCOP (heating 35 °C)	W/W	3.14	3.04	
	Energy labeling (heating 35 °C)		A+	A+	
Compressors	Brand		Copeland	Copeland	
	Type		Scroll	Scroll	
	Digital Scroll	Model		ZPD67KCE-TFD-532	ZPD72KCE-TFD-433
		Amount		1	1
		Capacity	kW	16.2	16.9
		Power consumption	kW	5.26	5.75
	Fixed 1	Max. current	A	10.6	12.7
		Model		ZP67KCE-TFD-522	ZP144KCE-TFD-522
		Amount		1	1
		Capacity	kW	16.2	35.4
	Fixed 2	Power consumption	kW	5.2	10.8
		Max. current	A	11.8	21.1
		Model			ZP67KCE-TFD-420
		Amount			1
	Capacity	kW		16.2	
	Power consumption	kW		5.2	
	Max. current	A		11.8	
Fan	Amount		1	2	
	Air flow rate	m ³ /h	12,000	24,000	
	Power	kW	0.670	0.865 x 2	
Sound pressure ⁽³⁾		dB(A)	65	67	
Sound power ⁽³⁾		dB(A)	80	83	
Water exchanger	Type		Double tube	Casing and tube	
	Water pressure drop		kPa	60	15
	Volume		L	10	42
	Nominal flow		m ³ /h	5.2	11.2
	Degree of soiling		m ² .°C /kW	0.086	0.086
	Max. design pressure		Mpa	1	1
	Connection type			Flanged	Flanged
	Hydraulic connections		mm (inches)	DN40 (1 1/2")	DN 100 (4")
Dimensions	Net dimensions (W x H x D)		mm	1514 x 1865 x 841	2000 x 1880 x 900
	Net dimensions (W x H x D)		mm	1590 x 2065 x 995	2106 x 2090 x 998
Weight	Net		kg	375	610
	Gross		kg	400	680
Refrigerant	Type		R410A	R410A	
	Amount		kg	3.5 x 2	7 x 2
Electrical connections	Power wiring ⁽⁴⁾		mm ²	4 x 10 + T (L<20 m)	4 x 25 + T (L<20 m)
	Communication wiring ⁽⁵⁾		mm ²	3 x 0.75 (shielded)	3 x 0.75 (shielded)
Ambient temperature in operation	Cooling	°C	-10 to 46	-10 to 46	
	Heating	°C	-10 to 21	-10 to 21	
Water temperature in operation	Cooling ⁽⁶⁾	°C	0 to 17	0 to 17	
	Heating	°C	22 to 50	45 to 50	

Notes:

- (1) Nominal cooling conditions: Water temperature 12 °C (Inlet), 7 °C (Outlet), outdoor temperature 35 °C DB. Water flow rate 0.172 m³/(h·KW).
- (2) Nominal heating conditions: Water temperature 40 °C (Inlet), 45 °C (Outlet), outdoor temperature 7 °C DB. Water flow rate 0.172 m³/(h·KW).
- (3) Sound level measured at 1 m of distance in an open field.
- (4) Power wiring recommended for L < 20 m, for longer distances it should be calculated.
- (5) Remote control wiring and interconnection of several modules.
- (6) Below 5 °C antifreeze must be added to the hydraulic circuit.

It does not include hydronic kit





CONTROL SYSTEMS

We present the full range of controls and accessories, where stands out the RG57 multifunction wireless control that allows the adjustment of functions and the parameters check in the domestic ranges (H6 and H7) and commercial range (H6).

It also highlights the new wired control (with weekly programmer) KJR-120G with only 2 wires of connection and without polarity.

Controls Range

TYPE	MODEL	CODE	DOMESTIC RANGE			COMMERCIAL RANGE		
			Wall Split (1 × 1 / Multi)	Cassette Multi	Duct Unit	Cassette	Ceiling-Floor	Duct
WIRELESS								
	RG57A6/BGE	CL 94 588	except H5A					
	YKR-H/002E	C L93 165	except H6 y H7					
	RM05/BG(T)E-A	CL 92 868						
	RM02A/BGE-A	CL 92 867						
WIRED								
	KJR-120G/TF-E	CL 94 907						
	KJR-29B1/BK-E	CL 92 869	except H5A					
	KJR-86C-E	CL 92 870	except H5A					
	KJR-12B/DP(T)-E	CL 94 848	except H5A					
	KJR-120B/BKP-E	CL 97 142						
	KJR-120C/BW-E	CL 92 946						
	KJR-120C/TF-E	CL 94 384	with CL 94 383 / except H5A					
	KJR-120F1/BMK-E	CL 92 340						
	KJRM-120D/BMK-E	CL 92 266						
CENTRALIZED								
	CCM30/BKE	CL 92 871	with CL 94 383 / except H5A					
	CCM15	CL 92 872	with CL 94 383 / except H5A					
INTEGRAL								
	IMM4	CL 97 160 CL 97 161 CL 97 162 CL 97 163	with CL 94 383 / except H5A					

	High Capacity Duct	Column	VARIABLE FLOW RATE MVD	INDUSTRIAL RANGE				WATER CHILLER	
				Wall	Cassette	Ceiling-Floor	High Pressure Duct	MUENR-H6	MUEN-H6
					except HG	with CL 94 974 + CL 92 869	with CL 94 974 + CL 92 869		
					except HG	with CL 94 974 + CL 92 869	with CL 94 974 + CL 92 869		
					except HG	with CL 94 974	with CL 94 974		
					except HG	with CL 94 974	with CL 94 974		
					except HG	with CL 94 974	with CL 94 974		
			only 3 pipes system						
					except HG				
					except HG	with CL 94 974	with CL 94 974		
					except HG	with CL 94 974	with CL 94 974		

TYPE	MODEL	CODE	DOMESTIC RANGE			COMMERCIAL RANGE		
			Wall Split (1 × 1 / Multi)	Cassette Multi	Duct Unit	Cassette	Ceiling-Floor	Duct
BMS (BUILDING MANAGEMENT SYSTEM)								
 	CCM08/E	CL 92 915	with CL 94 383 / except H5A					
 	LONGW64/E	CL 92 877	with CL 94 383 / except H5A					
 	CCM18A/N	CL 94 791	with CL 94 383 / except H5A					
 	MD-AC-MBS-1	CL 99 097	with CL 94 383 / except H5A					
 	KJRM-120D/BMK-E (Modbus)	CL 97 076						
 	MD-AC-KNX	CL 94 792 CL 99 094 CL 99 095	with CL 94 383 / except H5A					
 	IS-IR-KNX-1i	CL 99 096						
WIFI								
	OSK102	CL 94 382	except H5A					
	WF-60A1	CL 97 157						
	TADO°	CO 14 910						
	MOMIT COOL	CO 28 130						
ACCESSORIES								
	Multi function module	CL 94 383	except H5A					
	AHUKZ	LC 23 013 LC 23 014 LC 23 015						
	FCUKZ	CL 94 974 CL 94 975						
	KJR-150A/M-E	CL 97 156	with CL 94 383 / except H5A					
	DTS634 / DTS636	CL 92 882						
	MD-NIM10	CL 94 836						
	KJR-32B	CL 92 880						
	CCM02/E	CL 92 912						
	JC-02	CL 94 724	except H5A					
	Connector ON/OFF	CL 94 831 CL 94 832 CL 94 833 CL 97 176						

Controls Range

			INDUSTRIAL RANGE						
High Capacity Duct	Column	VARIABLE FLOW RATE MVD	FAN COILS UNITS				WATER CHILLER		
			Wall	Cassette	Ceiling-Floor	High Pressure Duct	MUENR-H6	MUEN-H6	
		except Duct High Pressure and 100% Air Ext.			with CL94974	with CL94974			
					except HG	with CL94974	with CL94974		
					except HG	with CL 94 974 + CL 92 869	with CL 94 974 + CL 92 869		
					except HG	with CL 94 974 + CL 92 869	with CL 94 974 + CL 92 869		
		only Maxi V5X and Mini >19kW							
					except HG	with CL 94 974	with CL 94 974		
		in Mini up to 18 kW with CL94 836							
		only Mini up to 18 kW							
		in Mini up to 18 kW with CL94 836							
		in Mini up to 18 kW with CL94 836							
					except HG				

WIRELESS

RG57A6/BGE (Code CL 94 588)

FEATURES

- Single wireless control
- Follow Me Function (iFeel)
- Silence function
- Self Clean function
- Daily timer
- Function setting
- Parameter query



COMPATIBLE WITH RANGE

DOMESTIC	<i>H7, H6⁽¹⁾, H6M Series</i>
COMMERCIAL	<i>H6 Series⁽²⁾</i>

⁽¹⁾Except Portable.

⁽²⁾Except Column and High Capacity Duct

YKR-H/002E (Code CL 93 165)

FEATURES

- Single wireless control
- Follow Me Function (iFeel)
- Self Clean function
- Daily timer



COMPATIBLE WITH RANGE

DOMESTIC	<i>H5A Series</i>
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RM05/BG(T)E-A (Code CL 92 868)

FEATURES

- Single wireless control
- Daily timer
- MVD units routing



COMPATIBLE WITH RANGE

COMMERCIAL	<i>HIGH CAPACITY DUCT Series</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series⁽¹⁾</i>

⁽¹⁾Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL 94 974 + CL 92 869.

Wireless

RM02A/BGE-A (Code CL 92 867)

FEATURES

- Single wireless control
- Follow Me Function (iFeel)
- "Auto" mode for 3 pipe MVD system
- Daily timer
- MVD indoor units routing



COMPATIBLE WITH RANGE

COMMERCIAL	<i>HIGH CAPACITY DUCT Series</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series⁽¹⁾</i>

⁽¹⁾Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL 94 974 + CL 92 869.



WIRED

KJR-120G/TF-E (Code CL 94 907)

FEATURES

- Wired control up to 16 indoor units grouped
- Follow Me Function (iFeel)
- Weekly timer (4 complete periods)
- Ability to block
- Memory function
- Displays error codes
- Bi-directional
- Connection with 2 wires without polarity



COMPATIBLE WITH RANGE

DOMESTIC	<i>H6M Series ⁽¹⁾</i>
COMMERCIAL	<i>H6 Series ⁽²⁾</i>

⁽¹⁾ Except Split Wall

⁽²⁾ Except High Capacity Conduit and Column

KJR-29B1/BK-E (Code CL 92 869)

FEATURES

- Individual wired control of indoor units
- Follow Me Function (iFeel)
- Touch keys
- Daily timer
- MVD indoor units routing
- Built-in infrared receiver
- Memory function
- Cleaning filter reminder
- Ability to block
- Unidirectional
- 4-wire connection



COMPATIBLE WITH RANGE

DOMESTIC	<i>H7, H6⁽¹⁾, H6M Series</i>
COMMERCIAL	<i>H7 and H6⁽²⁾ Series</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series ⁽³⁾</i>

⁽¹⁾ Except Portable Unit

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL94974

Wired

KJR-86C-E (Code CL 92 870)

FEATURES

- Simplified individual indoor unit wiring control for hotels
- Without mode change key, the mode change is made by pressing two keys together
- Memory function
- Unidirectional
- 4-wire connection



COMPATIBLE WITH RANGE

DOMESTIC	H7, H6 ⁽¹⁾ , H6M Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series
INDUSTRIAL HYDRONIC	FAN COILS Series ⁽³⁾

⁽¹⁾ Except Portable Unit

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL94974

KJR-12B/DP(T)-E (Code CL 94 848)

FEATURES

- Individual wired control of indoor units
- Follow Me Function (iFeel)
- Daily timer
- Unidirectional
- 5-wire connection



COMPATIBLE WITH RANGE

DOMESTIC	H7, H6 ⁽¹⁾ , H6M Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series
INDUSTRIAL HYDRONIC	FAN COILS Series ⁽³⁾

⁽¹⁾ Except Portable Unit

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL94974

Wired

KJR-120B/BKP-E (Code CL 97 142)

FEATURES

- Individual wired control of indoor units
- Touch keys
- Daily timer
- Memory function
- Cleaning filter reminder
- Ability to block
- "Auto" mode for 3 pipe MVD system
- Displays error codes
- Bi-directional
- 4-wire connection



COMPATIBLE WITH RANGE

INDUSTRIAL	MVD Series ⁽¹⁾
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⁽¹⁾Only 3 pipes system

KJR-120C/BW-E (Code) CL 92 946)

FEATURES

- Individual wired control of indoor units
- Weekly timer (4 time periods)
- Memory function
- Ability to block
- Displays error codes
- Bi-directional
- 4-wire connection



COMPATIBLE WITH RANGE

COMMERCIAL	HIGH CAPACITY DUCT Series
INDUSTRIAL	MVD Series
INDUSTRIAL HYDRONIC	WALL FAN COILS and CASSETTE Series ⁽¹⁾

⁽¹⁾Except Cassette HG.

KJR-120C/TF-E (Code CL 94 384)

FEATURES

- Individual wired control of indoor units
- Follow Me Function (iFeel)
- Weekly timer (8 complete periods)
- Memory function
- Ability to block
- Displays error codes
- Bi-directional
- 4-wire connection



COMPATIBLE WITH RANGE

DOMESTIC	WALL SPLIT H7 Series ⁽¹⁾ , H6 ⁽¹⁾ and H6M ⁽¹⁾
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⁽¹⁾With CL 94 383

Wired

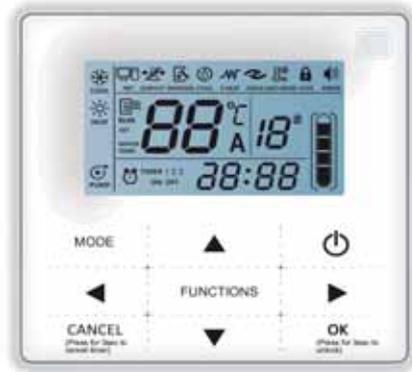
KJR-120F1/BMK-E (Code CL 92 340)

FEATURES

- Individual cable control for MUENR-H6 chillers
- Touch keys
- Daily timer
- Memory function
- Ability to block
- Displays error codes
- Bi-directional
- Built-in power adapter
- 3-wire connection

COMPATIBLE WITH RANGE

INDUSTRIAL HYDRONIC *MUENR-H6 Water Chiller Series*



KJRM-120D/BMK-E (Code CL 92 266)

FEATURES

- Wired control of up to 16 MUEN-H6T chillers
- Touch keys
- Daily timer
- Memory function
- Ability to block
- Displays error codes
- Bi-directional
- Built-in power adapter
- 3-wire connection

COMPATIBLE WITH RANGE

INDUSTRIAL HYDRONIC *MUEN-H6T Water Chiller Series*



CENTRALIZED

CCM30/BKE (Code CL 92 871)

FEATURES

- Centralized control of up to 64 indoor units
- Touch keys
- Daily timer
- Memory function
- Possibility to block individual controls
- Possibility of locking the operation mode
- Displays error codes
- Emergency ON / OFF by contactor
- It allows to check the evaporation / condensation temperature of the indoor units
- Cleaning filter reminder
- Combinable with CCM15 central control
- Compatible with CCM08 / E (BACnet) interface
- Installation to build-in
- Installation box in optional surface (CL 94 995)



COMPATIBLE WITH RANGE

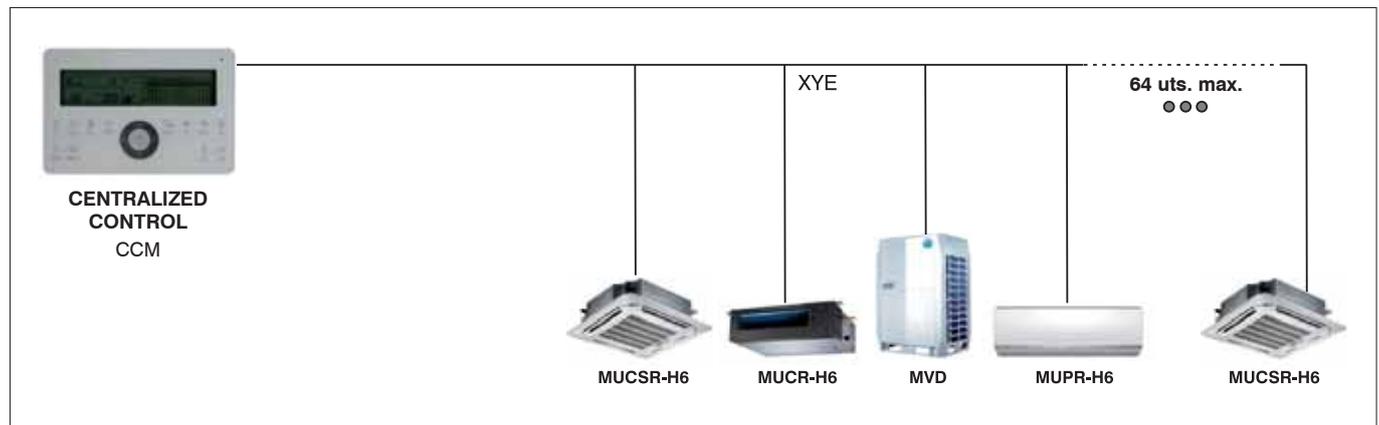
DOMESTIC	<i>H7⁽¹⁾, H6⁽¹⁾, H6M⁽¹⁾ Series</i>
COMMERCIAL	<i>H7 and H6 Series⁽²⁾</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series⁽³⁾</i>

⁽¹⁾ Except Portable, in Wall Split with CL 94 383

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL94974

CENTRALIZED CONTROLLER CONNECTION



CCM15 (Code CL 92 872)

FEATURES

- Centralized WEB and APP control up to 64 indoor units
- Weekly timer
- Memory function
- Possibility to block individual controls
- Ability to block: Mode, temperature and speed
- Displays error codes
- Cleaning filter reminder
- Combinable with CCM30 central control

COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series
INDUSTRIAL HYDRONIC	FAN COILS Series ⁽³⁾

⁽¹⁾ Except Portable, in Wall Split with CL 94 383

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in floor/ceiling and high pressure duct with CL94974



INTEGRAL

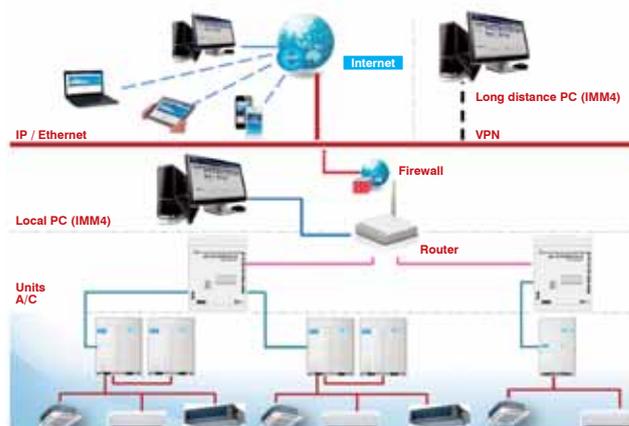
IMM4

FEATURES

- Integral solution for total control of up to 1024 indoor units; 256 MVD outdoor units or 64 MVD independent cooling systems
- WEB control via IP or via software
- Easy operation, intuitive operation screen
- Use of users for access (user, administrator, technical service)
- Possibility to enter the building plans (in AutoCAD) to easy management
- Annual calendar of programming, with 4 daily patterns and 10 actions in each pattern
- Possibility of limiting the temperature adjustment of indoor units
- It allows to block the local control and / or the way of operation of the indoor units
- Control of consumption of each MVD unit according to the parameters of operation: time, temperatures, etc. (A wattmeter CL 92 882 is required in each MVD outdoor unit)
- Generation of reports with the operating history (daily, weekly, monthly)
- Displays system error codes
- Emergency stop
- Alarm signal
- Possibility of sending an SMS in case of failure in the system (it is necessary to install an additional SMS modem)
- Automatic backup of the system (2GB SD card)
- Multi-language (English, Spanish, Italian, French, German, Russian and Chinese)
- Control software included
- Not compatible with centralized CCM controls



Example of connections:



CL 97 160	IMM4 Control up to 256 indoor units, 64 outdoor units MVD or 16 independent cooling systems MVD
CL 97 161	IMM4 Control up to 512 indoor units, 128 outdoor units MVD or 32 independent cooling systems MVD
CL 97 162	IMM4 Control up to 768 indoor units, 192 outdoor units MVD or 48 independent cooling systems MVD
CL 97 163	IMM4 Control up to 1024 indoor units, 256 outdoor units MVD or 64 independent cooling systems MVD

Operation screen:



COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series

⁽¹⁾ Except Portable, in Wall Split with CL 94 383

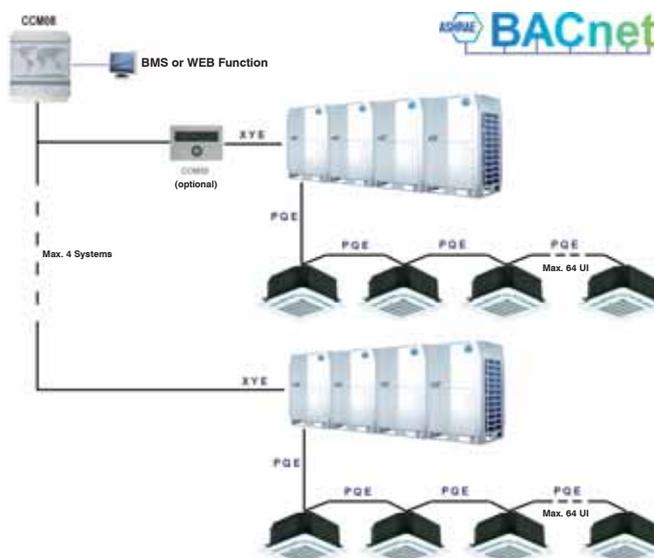
⁽²⁾ Except Column

BMS (Building Management System)

CCM08/E (Code CL 92 915)

FEATURES

- BMS interface for connecting units to a BACnet® system
- It can control up to 256 indoor units or 128 MVD outdoor units, as it has 4 communication ports, each port can control 64 indoor units or 32 MVD outdoor units (via CCM02 / E control)
- Allows the WEB control without having to be connected to a BMS network and without need of any additional software
- It allows to control and visualize:
 - ON / OFF of the units
 - Operating mode
 - Setpoint and ambient temperatures
 - Fan Speed
 - Swing
 - Individual control lock
 - Error codes



COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series

⁽¹⁾ Except Portable, in Wall Split with CL 94 383
⁽²⁾ Except Column

LonGW64/E (Code CL 92 877)

FEATURES

- BMS interface for connecting units to a LonWorks® system
- Can control up to 64 indoor units
- Not compatible with centralized CCM controls
- It allows to control and visualize:
 - ON / OFF of the units
 - Operating mode
 - Setpoint and ambient temperatures
 - Fan Speed
 - Error codes



COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series

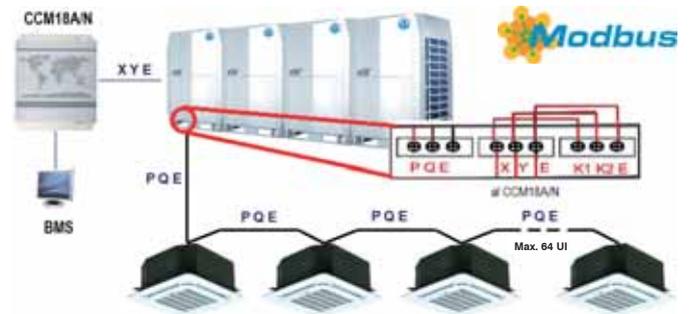
⁽¹⁾ Except Portable, in Wall Split with CL 94 383
⁽²⁾ Except Column

BMS (Building Management System)

CCM18A/N (Code CL 94 791)

FEATURES

- BMS interface for connecting units to a MODBUS® system (TCP/IP and RTU)
- It can control up to 64 indoor units and 4 MVD outdoor units of the same system
- Allows the WEB control without having to be connected to a BMS network and without need of any additional software
- Not compatible with centralized CCM controls
- It allows to control and visualize:
 - ON / OFF of the units
 - Operating mode
 - Setpoint and ambient temperatures
 - Fan Speed
 - Error codes



COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series

⁽¹⁾ Except Portable, in Wall Split with CL 94 383
⁽²⁾ Except Column

MD-AC-MBS-1 (Code CL 99 097)

FEATURES

- BMS interface for connecting units to a MODBUS® system (RTU)
- Each gateway can control a single unit
- Connection to terminals X and Y
- Requires external power 12V dc

COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series ⁽³⁾
INDUSTRIAL HYDRONIC	FAN COILS Series ⁽⁴⁾

⁽¹⁾ Except Portable, in Wall Split with CL 94 383.
⁽²⁾ Except Column and High Capacity Duct.
⁽³⁾ Except High Pressure Duct and 100% External Air (Capacity > 16 kW).
⁽⁴⁾ Except Cassette HG, in floor/ceiling and high pressure duct with CL94974.

KJRM-120D/BMK-E(MODBUS) (Code CL 97 076)

FEATURES

- Wired control and BMS interface to connect up to 16 MUEN-H6T chillers to a MODBUS® (RTU) system
- Same functions as KJRM-120D/BMK-E

COMPATIBLE WITH RANGE

INDUSTRIAL HYDRONIC	MUEN-H6T Water Chiller Series
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BMS (Building Management System)

MD-AC-KNX

FEATURES

- BMS interface for connecting units to a KNX® system
- The different gateways available allow us to control from a single unit up to 64 units
- Not compatible with centralized CCM controls



CL 94 792	Interface MD-AC-KNX-1B for only one unit
CL 99 094	Interface MD-AC-KNX-16 for up to 16 units
CL 99 095	Interface MD-AC-KNX-64 for up to 64 units



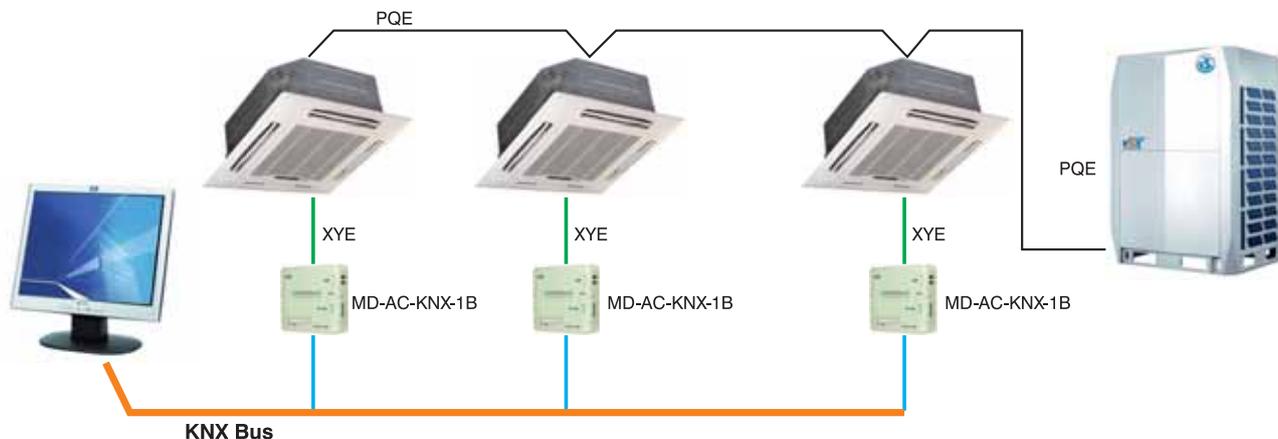
COMPATIBLE WITH RANGE

DOMESTIC	H7 ⁽¹⁾ , H6 ⁽¹⁾ , H6M ⁽¹⁾ Series
COMMERCIAL	H7 and H6 Series ⁽²⁾
INDUSTRIAL	MVD Series ⁽³⁾

⁽¹⁾ Except Portable, in Wall Split with CL 94 383

⁽²⁾ Except Column, in High Duct Capacity CL 94 792 can not be used

⁽³⁾ Except High Pressure Duct and 100% Outdoor Air (capacity > 16 kW) the CL 94 792 can not be used



IS-IR-KNX-1i (Code CL 99 096)

FEATURES

- BMS interface for connecting units to a KNX® system
- Each gateway can control a single unit
- Compatible with most air conditioners that have an infrared receiver



COMPATIBLE WITH RANGE

DOMESTIC	All the series
COMMERCIAL	All the series
INDUSTRIAL	MVD Series
INDUSTRIAL HYDRONIC	FAN COILS Series ⁽¹⁾



⁽¹⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL 94 974 + CL 92 869

WIFI

OSK102 (Code CL 94 382)

FEATURES

- WIFI module to control Split type of wall units (H6, H6M and H7) in the domestic range.
- ON / OFF operation.
- Selection of operation mode.
- Adjustment of target temperature.
- Selection of fan speed.
- ECO mode activation.
- Horizontal blade adjustment.
- Weekly timer, it schedule the starts and stops from the equipment weekly.
- Heating function to 8 °C, if you are not home and the room temperature es less than 8 °C, the equipment will start automatically in heating.
- Adjustable night mode, it sets the desired temperature variations during the night.
- Checking function, it allows to see if the equipment has a problem and which is the problem.



COMPATIBLE WITH RANGE

DOMESTIC

WALL SPLIT H7 Series, H7, H6 and H6M

Download application



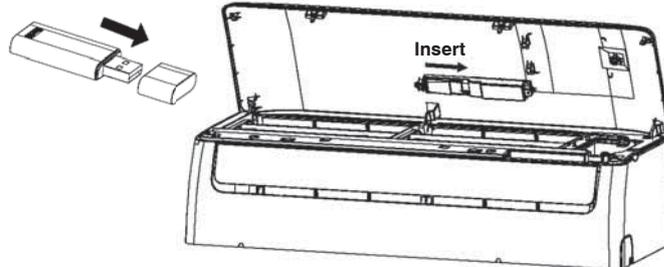
NetHome Plus



Notes:

- (1) In all cases (Split 1x1 or Multi Split) Wifi module is required by indoor unit.
- (2) In every user account multiple equipments can be registered and in that way to monitor them.
- (3) Each unit can only be registered in one user account.

Installation



Operating screen



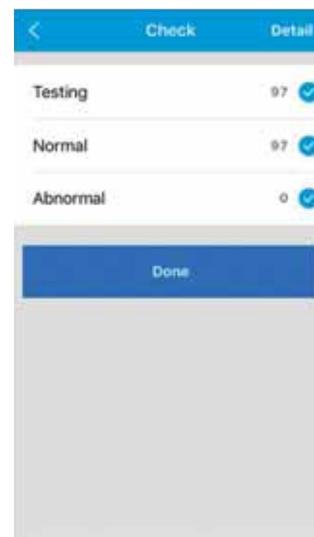
Functions screens



Night mode function



Checking function



WF-60A1 (Code CL 97 157)

FEATURES

- Wired WIFI module specially designed to control duct type equipment.
- Allows to operate the equipment in conjunction with the KJR-120G / TF-E Wired Control.



COMPATIBLE WITH RANGE

DOMESTIC	<i>H6M Series ⁽¹⁾</i>
COMMERCIAL	<i>H6 Series ⁽²⁾</i>

⁽¹⁾ Only Duct

⁽²⁾ Except Cassette, Column and High Capacity and Column

TADO° (Code CO 14 910)

FEATURES

- Universal WIFI module for connecting air conditioning units to your WIFI network
- Unique module that does not need to connect via cable to the router to control an air conditioning unit
- Are required as much WIFI modules as air conditioner units to be controlled
- Compatible with most air conditioners that have an infrared receiver
- Main functions:
 - Geolocation
 - Weather forecast
 - Easy assembly
 - Humidity and temperature sensor
 - Infrared transmitter

IT MAKES SMART ANY AIR CONDITIONER!



COMPATIBLE WITH RANGE

DOMESTIC	<i>All the series</i>
COMMERCIAL	<i>All the series</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series ⁽¹⁾</i>

⁽¹⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL 94 974 + CL 92 869



MOMIT COOL (Code CO 28 130)

FEATURES

- Universal WIFI module for connecting air conditioning units to your WIFI network
- Main module "Starter Kit", which includes gateway to connect via RJ45 cable to the router and WIFI module to control an air conditioning unit
- Additional modules available (CO 28 132), each "Start Kit" gateway can control up to 20 WIFI modules
- Compatible with most air conditioners that have an infrared receiver
- Main functions:
 - Geolocation
 - Weather forecast
 - Easy assembly
 - Humidity and temperature sensor
 - Infrared transmitter and receiver



COMPATIBLE WITH RANGE

DOMESTIC	<i>All the series</i>
COMMERCIAL	<i>All the series</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series⁽¹⁾</i>

⁽¹⁾ Except Cassette HG, in Floor/Ceiling and High Pressure Duct with CL 94 974 + CL 92 869



ACCESSORIES

MULTI-FUNCTION (Code CL 94 383)

FEATURES

- Connects Wall Splitters (H6, H6M and H7) from the domestic range to centralized CCM controls and to the wall controller with KJR-120C / TF-E weekly programmer (CL 94 384)
- It has an input to perform ON / OFF by contact and a free alarm signal output free of power
- Bracket included to fix it on the battery of the indoor unit



COMPATIBLE WITH RANGE

DOMESTIC

WALL SPLIT H7 Series, H7, H6 and H6M

AHUKZ-B (Code LC 23 013-015)

FEATURES

- It allows to connect air treatment units (UTA) or air conditioners with direct expansion battery (DX) to units. outdoor MVD to 2 pipes (Mini V4 + > 19kW and Maxi V5X).
- Individual box capacity from 9kW up to 56kW.
- Up to 4 boxes can be connected in parallel to increase capacity up to a maximum of 224 kW.
- Each AHUKZ-B box includes:
 - Control system
 - Electronic expansion valve
 - Thermometers
 - Wired remote control KJR-29B

COMPATIBLE WITH RANGE

INDUSTRIAL

MVD Series⁽¹⁾

⁽¹⁾Only Maxi V5X and Mini >19kW



SPECIFICATIONS:

Model			AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Code			LC 23 013	LC 23 014	LC 23 015
Power supply		V ~ Hz	220 - 240 ~ 50 / 208 - 230 ~ 60		
Capacity		kW	14 (9 ~ 20)	28 (20.1 ~ 36)	56 (37 ~ 56)
Connection pipes	Liquid inlet	mm	7.9 (5/16")	12.7 (1/2")	15.9 (5/8")
	Liquid outlet	mm	7.9 (5/16")	12.7 (1/2")	15.9 (5/8")
Dimensions	Net (W x H x D)	mm	350x150x375		
	Gross (W x H x D)	mm	420x240x490		

FCUKZ (Code CL 94 974-975)

FEATURES

NEW

- Control kit for any Fan coil unit on the market without built-in control board.
- Flexible installation, can be installed next to the fan coil unit, on the wall or on the suspended ceiling.
- Allows connection to centralized CCM control.
- It allows MODBUS® (RTU) communication.
- It has an input to perform ON / OFF by contact and an alarm signal output.
- It allows to regulate:
 - 3 fan speeds
 - Hydraulic circuit valves
 - The condensate pump
 - An auxiliary electrical resistance
- Each FCUKZ box includes:
 - Control system
 - Thermometers

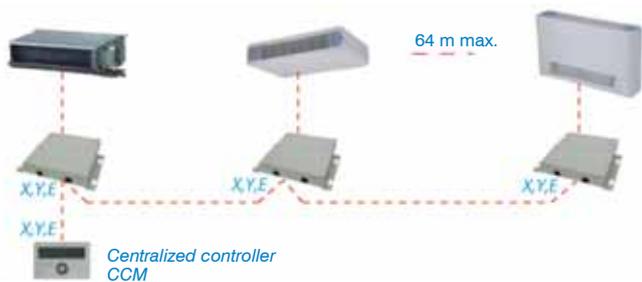


COMPATIBLE WITH RANGE

INDUSTRIAL HYDRONIC All FAN COIL uts. without electronics ⁽¹⁾

⁽¹⁾ For example Floor/Ceiling and High Pressure Duct.

Centralized control



Modbus communication



SPECIFICATIONS:

Model			FCUKZ-03	FCUKZ-04
Code (kit without remote control)			CL 94 974	CL 94 975
Code (kit with wired remote control KJR-29B1 / BK-E)			LC 04 531	LC 04 532
Application system			2 Pipes	4 Pipes
Power supply		V/Ph/Hz	22-240 / 1 / 50-60	22-240 / 1 / 50-60
Operation range	Room temperature	°C	17 - 30	17 - 30
	Inlet water temp.	°C	3 - 75	3 - 75
Temp. precision		°C	± 1	± 1
Dimensions (W x H x D)		mm	296 x 66 x 212	296 x 66 x 212
Weight		kg	1.4	1.4

KJR-150A/M-E (Code CL 97 156)

FEATURES

- Kit for group control of up to 16 indoor units
- Allows control of indoor units that are connected in a group with a single wired control KJR-29B
- Each KJR-150A / M-E kit includes:
 - Main module with XYE communication
 - wired remote control KJR-29B
 - Infrared receiver to connect the wired control or use a wireless controller



COMPATIBLE WITH RANGE

DOMESTIC	<i>H7⁽¹⁾, H6⁽¹⁾, H6M⁽¹⁾ Series</i>
COMMERCIAL	<i>H7 and H6 Series⁽²⁾</i>
INDUSTRIAL	<i>MVD Series</i>
INDUSTRIAL HYDRONIC	<i>FAN COILS Series⁽³⁾</i>

⁽¹⁾ Except Portable, in Wall Split with CL 94 383

⁽²⁾ Except Column

⁽³⁾ Except Cassette HG, in floor/ceiling and high pressure duct with CL94974



DTS634 / DTS636 (Code CL 92 882)

FEATURES

- Digital wattmeter for MVD outdoor units
- Allows to calculate the consumption of each outdoor unit
- If unified with the integral control IMM4, it performs the consumption control of each indoor unit of the MVD system
- Possibility to visualize the consumption by the control CCM02 / E or the own integral control IMM4
- One wattmeter should be installed in each outdoor unit, even in cooling systems formed by several outdoor units, always install a wattmeter per unit
- To connect it to the Mini MVD V4 + units between 8 and 18kW, the MD-NIM10 module is needed



COMPATIBLE WITH RANGE

INDUSTRIAL	<i>MVD Series⁽¹⁾</i>
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⁽¹⁾ in Mini up to 18 kW with CL94 836

MD-NIM10 (Code CL 94 836)

FEATURES

- Module to be able to connect the digital wattmeter (OAE ports) to the Mini MVD V4 + units between 8 and 18kW.
- It also allows connection of the central control of outdoor units CCM02 / E and alarm signal KJR-32B (ports K1K2E).



COMPATIBLE WITH RANGE

INDUSTRIAL	MVD Series ⁽¹⁾
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⁽¹⁾only Mini up to 18kW

KJR-32B (Code CL 92 880)

FEATURES

- MVD outdoor unit alarm controller module, generates an alarm signal (230Vac) when there is an error in the equipment.
- Can control up to 32 outdoor units or 8 independent cooling systems.



COMPATIBLE WITH RANGE

COMMERCIAL	HIGH CAPACITY DUCT Series
INDUSTRIAL	MVD Series ⁽¹⁾

⁽¹⁾in Mini up to 18 kW with CL94 836

CCM02/E (Code CL 92 912)

FEATURES

- Centralized control up to 32 outdoor units or 8 MVD independent cooling systems.
- Allows monitoring the MVD outdoor units.
- If the outdoor unit adds the wattmeter (CL 92 882), it shows the total consumption of the unit.



COMPATIBLE WITH RANGE

COMMERCIAL	HIGH CAPACITY DUCT Series
INDUSTRIAL	MVD Series ⁽¹⁾

⁽¹⁾in Mini up to 18 kW with CL94 836

JC-02 (Code CL 94 724)

FEATURES

- Test and Diagnostic Tool
- It allows you to view the parameters of the unit, the history of errors, set the frequency of the compressor, etc.



COMPATIBLE WITH RANGE

DOMESTIC	H7, H6 ⁽¹⁾ , H6M Series
COMMERCIAL	H6 Series ⁽²⁾

⁽¹⁾ Except Portable Unit

⁽²⁾ Except High Capacity Conduit and Column

CONNECTOR ON/OFF (Code CL 94 831-833)

FEATURES

- Connector with 2 wires that allows to make a remote ON / OFF by contact in the units that do not include this function



COMPATIBLE WITH RANGE

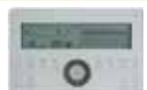
INDUSTRIAL	MVD Series ⁽¹⁾
INDUSTRIAL HYDRONIC	FAN COILS Series (2)

⁽¹⁾ Cassette, Wall and Floor/Ceiling

⁽²⁾ Only Cassette MUCS-W7

Code	For equipments
CL94831	MVD-Q4/DHN1-A3; MUCS-14/16-W7
CL94832	MVD-Q4/DHN1-D; MUCS-20/24/36-W7
CL94833	MVD-G/DHN1-M
CL97176	MVD-DL/DHN1-C

Functions Summary

			Max. Unit to Control	ON / OFF	Mode selection	Fan Speed Selection	Selection Room temperature	Swing function	Sleep function	Silence function	Self Clean function	Eco mode
WIRELESS												
	RG57A6/BGE	CL 94 588	1	<input checked="" type="checkbox"/>								
	YKR-H/002E	CL 93 165	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						
	RM05/BG(T)E-A	CL 92 868	1	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
	RM02A/BGE-A	CL 92 867	1	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
WIRED												
	KJR-120G/TF-E	CL 94 907	16	<input checked="" type="checkbox"/>								
	KJR-29B1/BK-E	CL 92 869	1	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
	KJR-86C-E	CL 92 870	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	KJR-12B/DP(T)-E	CL 94 848	1	<input checked="" type="checkbox"/>								
	KJR-120B/BKP-E	CL 97 142	1	<input checked="" type="checkbox"/>								
	KJR-120C/BW-E	CL 92 946	1	<input checked="" type="checkbox"/>								
	KJR-120C/TF-E	CL 94 384	1	<input checked="" type="checkbox"/>								
	KJR-120F1/BMK-E	CL 92 340	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	KJRM-120D/BMK-E	CL 92 266	16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
CENTRALIZED												
	CCM30/BKE	CL 92 871	65	<input checked="" type="checkbox"/>								
	CCM15	CL 92 872	65	<input checked="" type="checkbox"/>								

Keyboard lock	Mode lock	Temperature lock	Infrared Receiver	Follow Me Function (iFeel)	Auto function (Only 3 pipes system)	Daily timer	Weekly timer	Clock	Displays error codes	Units routing MVD	Cleaning reminder Filters	Memory function	Function setting	Query function	Bi-directional	Number of connection threads
		■		■		■							■	■		-
				■		■										-
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■				■	■	■				■						-
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	■	■				■	■	■	■			■		■	■	3





AEROTHERM RANGE

Aerotherm V17 is provided in Monobloc and Bibloc versions.

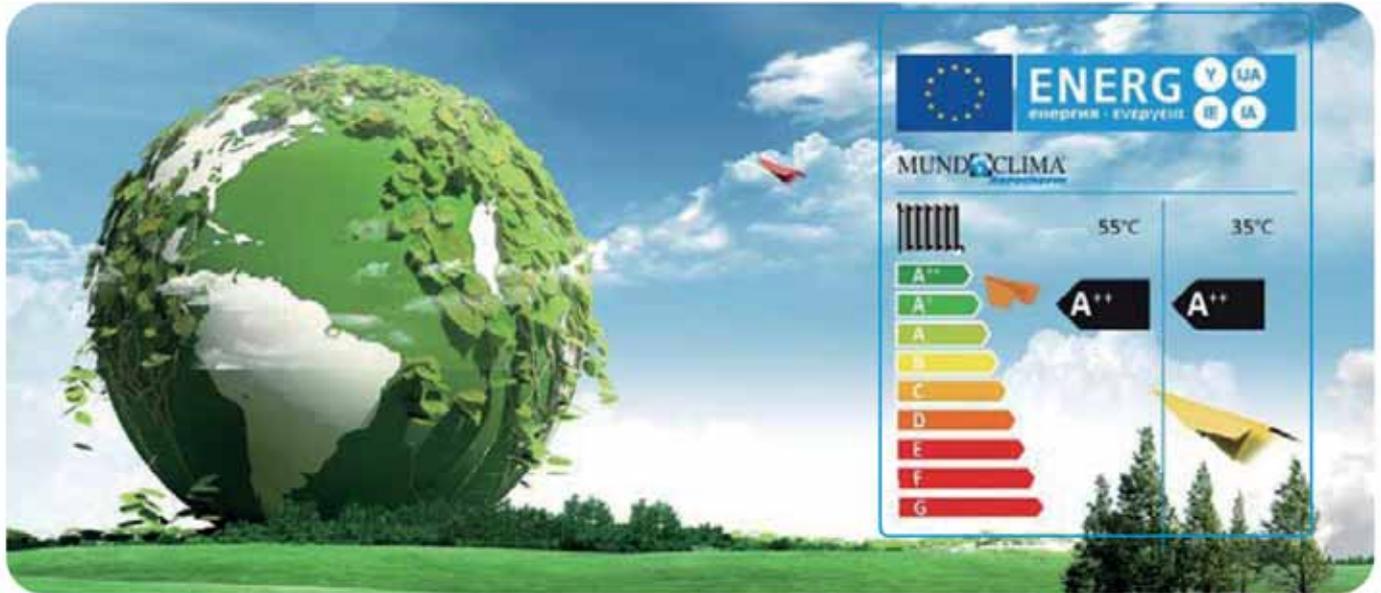
In the Monobloc version the hydronic unit of hydro / gas exchange is located in the same outdoor unit. The Bibloc version, on the other hand, has the external unit and the hydronic indoor unit separated, offering more flexibility.

Both versions can get the energy label A ++, so they are equipment with the highest performance of energy efficiency contributing significantly to limit an impact on the environment.

MUNDOCLIMA Aerotherm

V17 Series

Aerotherm V17 is provided in Monobloc and Bibloc versions. In the Monobloc version the hydronic unit of hydro / gas exchange is located in the same outdoor unit. The Bibloc version, on the other hand, has the external unit and the hydronic indoor unit separated, offering more flexibility. Both versions can get the energy label A ++, so they are equipment with the highest performance of energy efficiency contributing significantly to limit an impact on the environment.



RANGE OF PRODUCTS

Capacity (kW)	7	12	16
MONOBLOC			
General view			
220~240V-1Ph	●	●	●

Capacity (kW)	6	8	10	12	14	16
BIBLOC						
General view						
220~240V-1Ph	● ●	● ●	● ●	● ●	● ●	● ●

● Outdoor unit ● Hydronic box (4-8 kW) ● Hydronic box (1Ph, 10-16 kW)

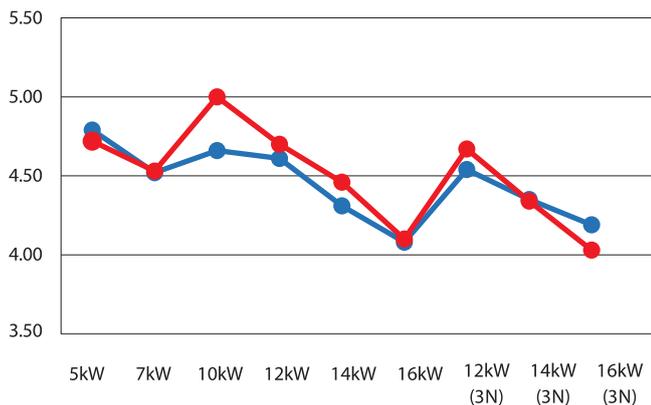
AEROTHERM V17 Monobloc Model

High Efficiency & Total Solution

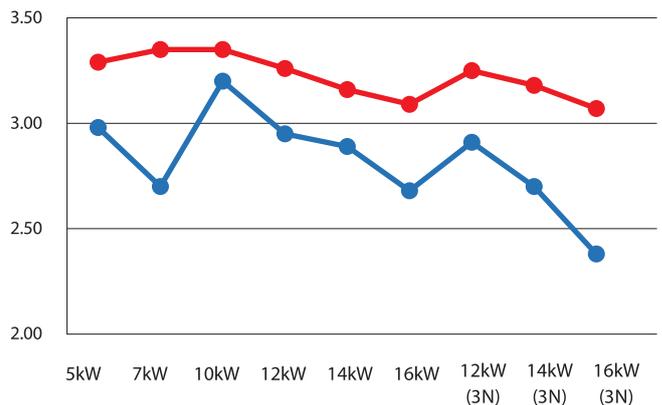
DC INVERTER TECHNOLOGY GUARANTEES THE OPTIMUM OPPORTUNITY, ROBUSTNESS AND EFFICIENCY

Energy efficiency Monobloc range

● COP COP test according to: Outdoor temperature 7 °C/ Water temperature 35 °C
● EER EER test according to: Outdoor temperature 35 °C/ Water temperature 18 °C



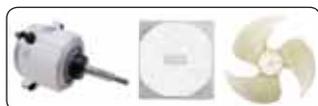
● COP COP test according to: Outdoor temperature 7 °C/ Water temperature 55 °C
● EER EER test according to: Outdoor temperature 35 °C/ Water temperature 7 °C



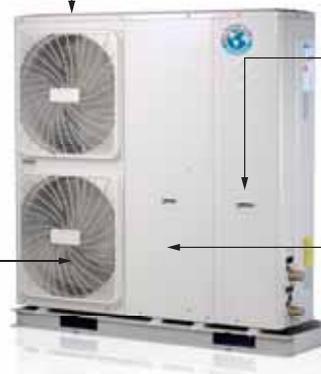
PROVIDES 80% POWER AT -7 °C THANKS TO THE LARGE SURFACE OF THE EXCHANGER AND THE POWERFUL COMPRESSOR



Fins heat exchanger
Copper pipe Ø9.5 with corrugated surface to optimize exchange efficiency. Hydrophilic aluminum fins, ideals for fast drainage and anti-mold. Anti corrosion coating. Blue coating to ensure durability.



Brushless DC fan motor
BLDC with 100% electric control with low sound level, working in quiet mode as well as low energy consumption.

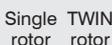


Hydronic Unit
Integrated in the same unit generating sanitary hot water. Resistance included except 5 and 7 kW models, for which it is optional.

DC Inverter Compressor

The recent launch of our new TWIN ROTARY compressor with permanent magnets offers low sound level, wide frequency spectrum and more precision. It comes with a 100% DC frequency drive system that drastically reduces power consumption.

Single TWIN rotor



Twin Rotary compressor

High efficiency motor:
- Creative design.
- Neodymium HD magnets.
- Concentration stator.
- Wide operation frequency.

Better balance and extremely low vibrations:
- Twin eccentric cams.
- 2 balancing weights.

High stability mobile parts:
- High quality material on rollers and pallets.
- Optimized technology.
- Highly robust bearings.
- Compact structure.

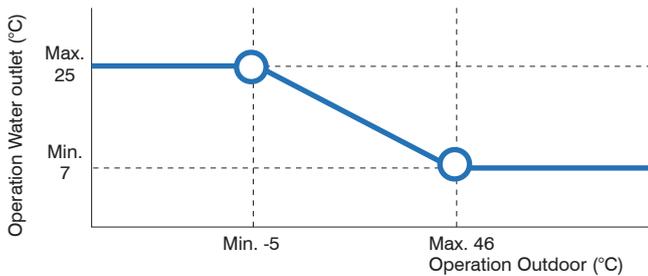
Flexible operation and great comfort

Monobloc Aerotherm V17

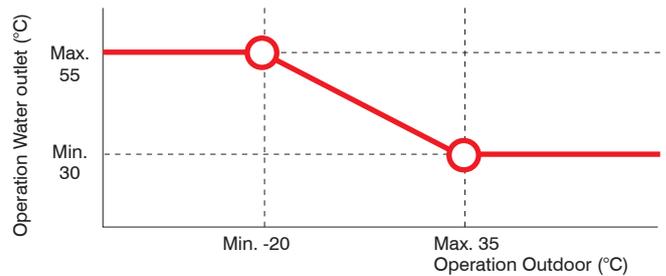
THE WEATHER AFFECTS DIRECTLY THE COMFORT

With AEROTHERM V17 we have up to 32 correlation curves to choose from. Once we select the curve, the unit chooses the output temperature according to the outside temperature.

Cooling mode



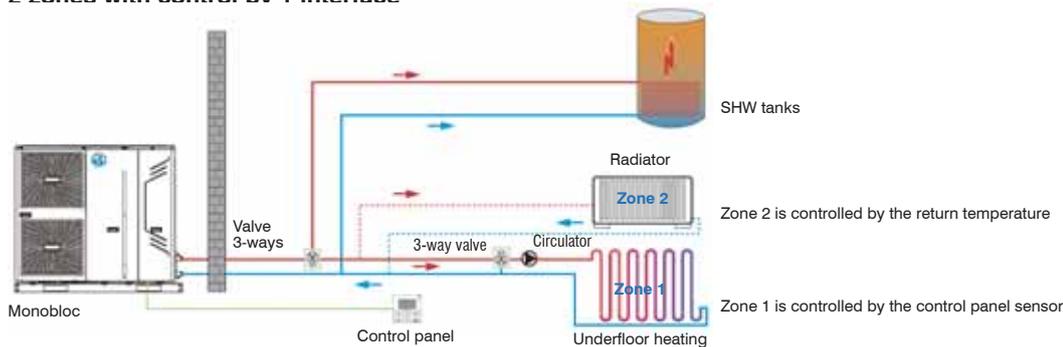
Heating mode



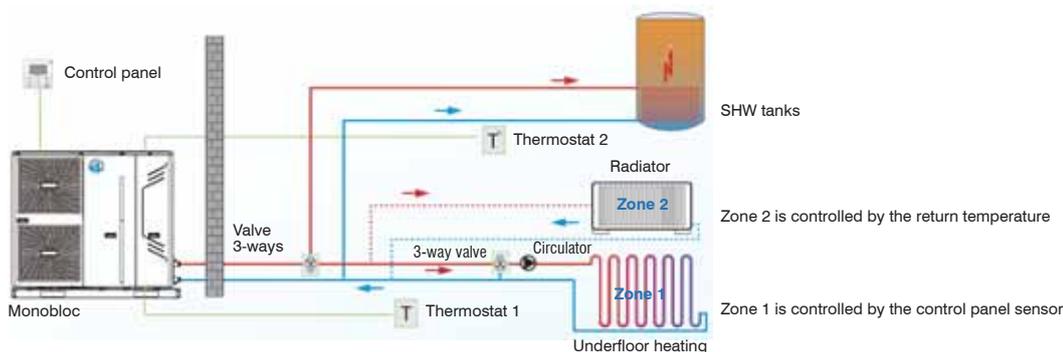
2 CONTROL ZONES

The temperature of each zone is separated, the control of 2 zones reduces the times between cycle and saves energy.

2 zones with control by 1 interface



2 zones with control by interface and thermostat



PRIORITIES AND MULTI-MODES



Priority mode
Cooling



Priority mode
Heating



Priority Sanitary
Hot Water



AUTO
mode



Disinfection
mode



Vacations
mode



Force SHW
mode



ECO
Mode



Comfort
mode



Silent mode

Special functions such as purge, installation and preheating.

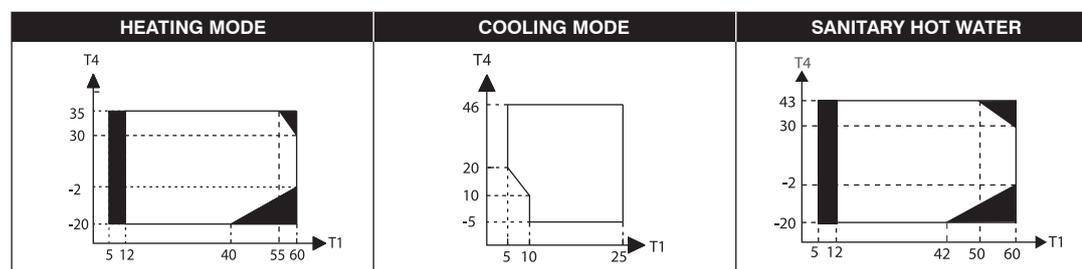
Monobloc Aerotherm V17

TECHNICAL SPECIFICATIONS

Model			7 kW	12 kW	16 kW
Code			SO 30 174	SO 30 176	SO 30 178
Nominal voltage		V/Ph/Hz	220-240/1/50		
Heating capacity ⁽¹⁾	Total power	kW	6.55	12.17	16.33
	Absorbed power	kW	1.45	2.73	3.90
	COP		4.52	4.46	4.19
Heating capacity ⁽²⁾	Total power	kW	6.69	12.58	16.12
	Absorbed power	kW	2.05	3.86	5.22
	COP		3.26	3.26	3.09
Cooling capacity ⁽³⁾	Total power	kW	6.45	12.19	14.82
	Absorbed power	kW	1.47	2.65	3.66
	EER		4.40	4.60	4.05
Cooling capacity ⁽⁴⁾	Total power	kW	6.71	12.21	13.72
	Absorbed power	kW	2.57	4.17	5.16
	EER		2.61	2.93	2.66
Energy efficiency	Water outlet @ 35 °C	LOT1	A++		
	Water outlet @ 55 °C	LOT1	A+		
Sound level	Heating	dB(A)	65	67	72
	Cooling	dB(A)	66	68	71
Dimensions (Width x Height x Depth)		mm	1210×945×402	1404×1414×405	1404×1414×405
Packaging (Width x Height x Depth)		mm	1500×1140×450	1475×1580×440	1475×1580×440
Net/ gross weight		kg	99/117	162/183	162/183
Compressor	Type		Twin-rotary inverter		
Fan	Motor type		Brushless DC motor		
	Air flow rate	m ³ /h	3100	6250	6250
Air exchanger			Finned battery		
Water exchanger			Thermo-welded plates		
Water pump		m	6	7.5	7.5
Expansion tank volume		L	2	5	5
Refrigerant	Type		R410A		
	Load	kg	2.4	3.6	3.6
Expansion type			Electronic expansion valve		
Electric resistance	Mounted in series	kW	Optional	3	3
	Stages		1	2	2
	Power supply	V/Ph/Hz	220-240/1/50		
Water pipe connections		inch	1" Female	1-1/4" Female	1-1/4" Female
Operating temperature range	Cooling	°C	-5~46		
	Heating	°C	-20~35		
	SHW	°C	-20~43		
Outlet water temp. range	Cooling	°C	5~25		
	Heating	°C	25~60		
	SHW	°C	40~60		

Nominal capacity is based on the following conditions:

1. Outdoor air temperature 7 °C RH 85%. Inlet/Outlet temp. water 30/35 °C.
2. Outdoor air temperature 7 °C RH 85%. Inlet/Outlet temp. water 40/45 °C.
3. Outdoor air temperature 35 °C. Inlet/Outlet temp. water 23/18 °C.
4. Outdoor air temperature 35 °C. Inlet/Outlet temp. water 12/7 °C.
5. The previous test temperatures come from the standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.



T4 Ambient temperature (°C)
T1 Ambient temperature (°C)

AEROTHERM V17

Bibloc model

High Efficiency & Total Solution

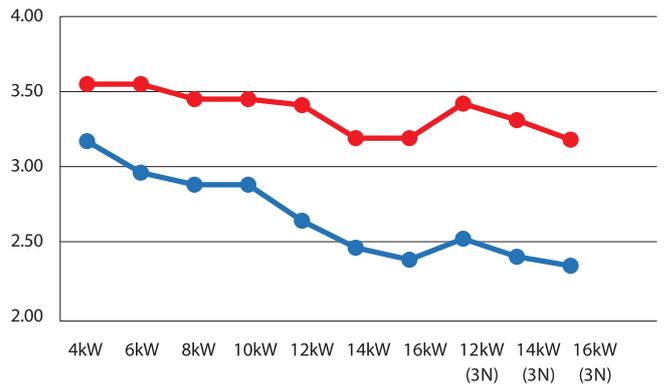
DC INVERTER TECHNOLOGY GUARANTEES THE OPTIMUM OPPORTUNITY, ROBUSTNESS AND EFFICIENCY

Energy efficiency Monobloc range

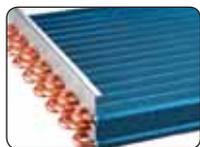
● COP COP test according to: Outdoor temperature 7 °C/ Water temperature 35 °C
● EER EER test according to: Outdoor temperature 35 °C/ Water temperature 18 °C



● COP COP test according to: Outdoor temperature 7 °C/ Water temperature 55°C
● EER EER test according to: Outdoor temperature 35 °C/ Water temperature 7 °C



PROVIDES 80% POWER AT -7 °C THANKS TO THE LARGE SURFACE OF THE EXCHANGER AND THE POWERFUL COMPRESSOR



Fins heat exchanger
Copper pipe Ø9.5 with corrugated surface to optimize exchange efficiency. Hydrophilic aluminum fins, ideals for fast drainage and anti-mold. Anti corrosion coating. Blue coating to ensure durability.

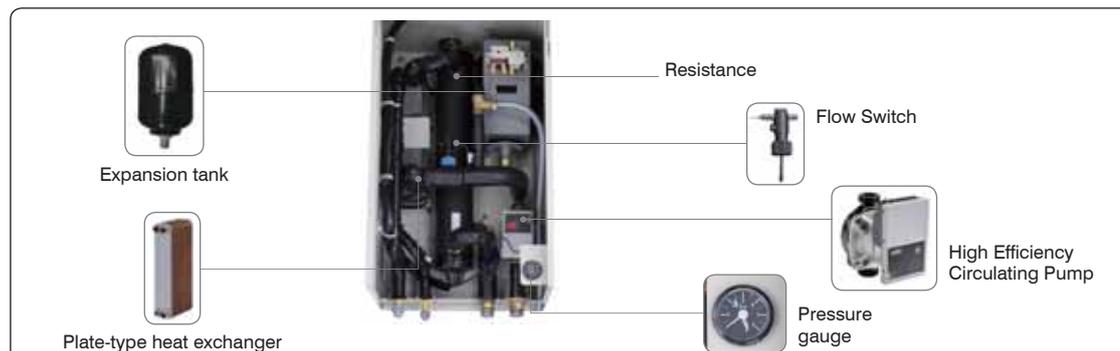


Brushless DC fan motor
BLDC with 100% electric control with low sound level, working in quiet mode as well as low energy consumption.



DC Inverter Compressor

The recent launch of our new TWIN ROTARY compressor with permanent magnets offers low sound level, wide frequency spectrum and more precision. It comes with a 100% DC frequency drive system that drastically reduces power consumption.



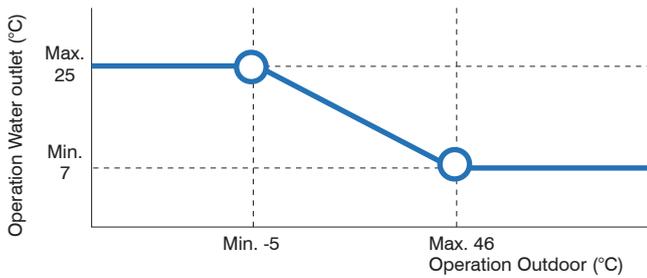
Flexible operation and great comfort

Bibloc Aerotherm V17 Model

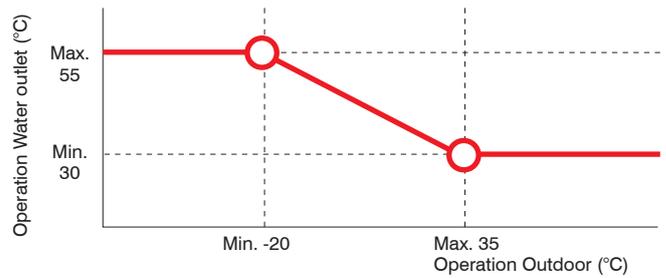
THE WEATHER AFFECTS DIRECTLY THE COMFORT

With AEROTHERM V17 we have up to 32 correlation curves to choose from. Once we select the curve, the unit chooses the output temperature according to the outside temperature.

Cooling mode



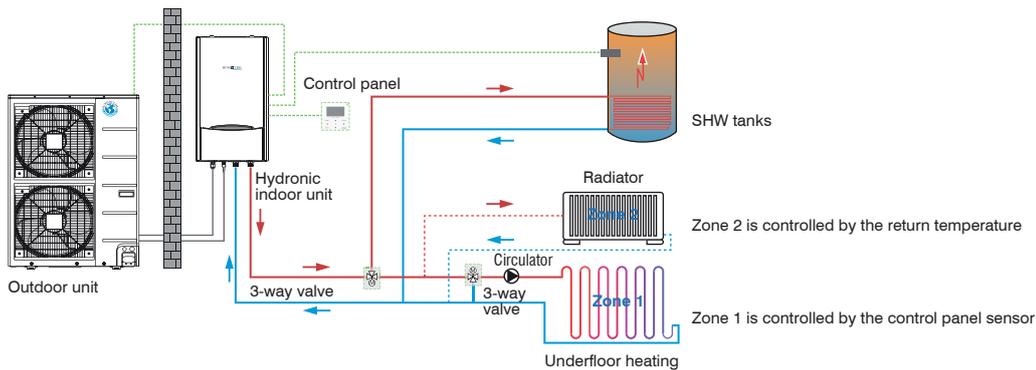
Heating mode



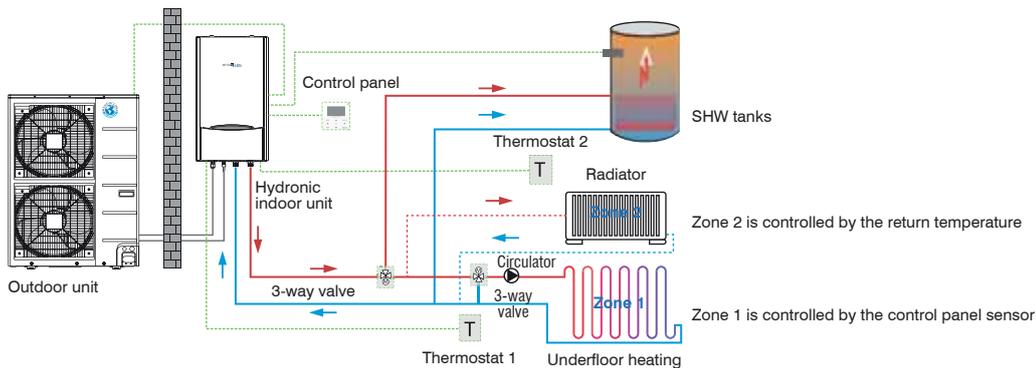
2 CONTROL ZONES

The temperature of each zone is separated, the control of 2 zones reduces the times between cycle and saves energy.

2 control zones with 1 user interface



2 control zones with 1 user interface and thermostat



PRIORITIES AND MULTI-MODES



Priority mode Cooling



Priority mode Heating



Priority Sanitary Hot Water



AUTO mode



Disinfection mode



Vacations mode



Force SHW mode



ECO Mode



Comfort mode



Silent mode

Special functions such as purge, installation and preheating.

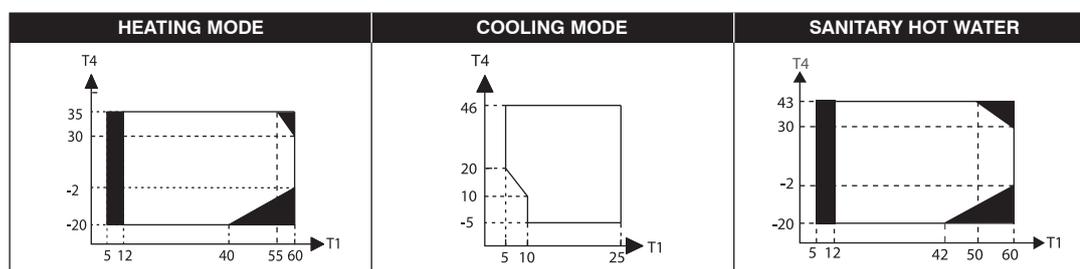
TECHNICAL SPECIFICATIONS: HYDRONIC INDOOR UNIT

Bibloc Aerotherm V17 Model

Model				from 4 to 8 kW	from 10 to 16 kW	
Code				SO 30 170	SO 30 171	
Type				Heating and cooling		
Outlet water temp. range	Heating	Low	°C	25 ~ 55, default 35		
		Height	°C	35 ~ 60, default 45		
	Cooling	Low	°C	7 ~ 25, default 7		
		Height	°C	18 ~ 25, default 18		
	Sanitary Hot Water			°C	40 ~ 60, default 45	
Nominal voltage			V/Ph/Hz	220-240/1/50	220-240/1/50	
Dimensions (Width x Height x Depth)			mm	400×865×427		
Packaging (Width x Height x Depth)			mm	495×1040×495		
Net/ gross weight			kg	51/57	54/60	
Water circuit	Output connection		mm	DN25		
	Safety valve		MPa	0.3		
	Water volume		L	5		
	Drain connection		mm	Ø16		
	Expansion tank	Volume	L	3		
		Maximum pressure	MPa	0.8		
		Preloading pressure	MPa	0.15		
	Plate heat exchanger	Type	Thermo-welded plates			
		Volume	L	0.7	1	
Circulator		m	6	7.5		
Cooling circuit	Liquid	mm	Ø9.5			
	Gas	mm	Ø15.9			
Electrical resistance	Power		kW	3.0	3.0	
	Stages			2	2	
	Nominal voltage			220-240/1/50	220-240/1/50	

Rated capacity is based on the following conditions:

- Condition 1: Heat mode outdoor temperature 7 °C and outlet water 35 °C with ΔT at 5 °C. Cool mode outdoor temperature 35 °C and water outlet 18 °C with ΔT at 5 °C.
- Condition 2: Heat mode outdoor temperature 7 °C and outlet water 35 °C with ΔT at 5 °C. Cool mode outdoor temperature 35 °C and water outlet 7 °C with ΔT at 5 °C.
- The above data are from the reference standard EN14511.



T4 Ambient temperature (°C)
T1 Ambient temperature (°C)

TECHNICAL SPECIFICATIONS: OUTDOOR UNIT

Bibloc Aerotherm V17 Model

Model			6 kW	8 kW	10 kW	12 kW	14 kW	16 kW	
Code			SO 30 161	SO 30 162	SO 30 163	SO 30 164	SO 30 165	SO 30 166	
Nominal voltage		V/Ph/Hz	220-240/1/50						
Heating capacity ⁽¹⁾	Total power	kW	6.10	8.00	10.00	12.10	14.00	15.50	
	Absorbed power	kW	1.29	1.73	2.17	2.74	3.39	3.82	
	COP			4.73	4.62	4.61	4.42	4.13	4.06
Heating capacity ⁽²⁾	Total power	kW	5.96	7.34	10.12	11.85	14.05	16.05	
	Absorbed power	kW	1.68	2.13	2.93	3.48	4.41	5.03	
	COP			3.55	3.45	3.45	3.41	3.19	3.19
Cooling capacity ⁽³⁾	Total power	kW	6.00	8.00	10.00	11.80	13.00	14.00	
	Absorbed power	kW	1.29	1.78	2.07	2.65	3.23	3.62	
	EER			4.66	4.49	4.83	4.45	4.02	3.87
Cooling capacity ⁽⁴⁾	Total power	kW	6.15	6.44	9.39	11.02	12.49	12.85	
	Absorbed power	kW	2.08	2.24	3.26	4.17	5.07	5.39	
	EER			2.96	2.88	2.88	2.64	2.46	2.38
Energy efficiency	Water outlet @ 35 °C	LOT1	A++						
	Water outlet @ 55 °C	LOT1	A+	A++	A+	A++	A++	A+	
Sound level	Heating	dB(A)	66	68	67	68	71	72	
	Cooling	dB(A)	66	68	64	66	71	71	
Dimensions (Width x Height x Depth)		mm	960×860×380	1075×965×395	900x1327x400				
Packaging (Width x Height x Depth)		mm	1040×1000×430	1120×1100×435	1030×1457×435				
Net/ gross weight		kg	60/72	76/88	99/112				
Compressor	Type		Twin-rotary inverter						
Fan	Type		Brushless DC motor						
	Air flow rate	m³/h	3050	5100	6500				
Air exchanger			Finned battery						
Pipeline connection	Liquid	Type		Cooling copper					
		External diameter	mm	Ø9.5					
	Gas	Type		Cooling copper					
		External diameter	mm	Ø15.9					
	Piping distance	Min.	m	2					
		Maximum	m	20	30	50			
	Installation height	Outdoor ut. over	m	10	20	30			
		Outdoor ut. under	m	8	15	25			
Refrigerant	Type		R410A						
	Load	kg	2.5	2.8	3.9				
Expansion type			Electronic expansion valve						
Operating temperature range	Cooling	°C	-5~46						
	Heating	°C	-20~35						
	Hot water	°C	-20~43						

Nominal capacity is based on the following conditions:

1. Outdoor air temperature 7 °C RH 85%. Inlet/Outlet temp. water 30/35 °C.
2. Outdoor air temperature 7 °C RH 85%. Inlet/Outlet temp. water 40/45 °C.
3. Outdoor air temperature 35 °C. Inlet/Outlet temp. water 23/18 °C.
4. Outdoor air temperature 35 °C. Inlet/Outlet temp. water 12/7 °C.
5. The previous test temperatures come from the standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

HEAT PUMP FOR SHW MONOBLOCK System

Copper condenser, spirally attached to the outside of the accumulator, it ensures that the refrigerant can never be in contact with water. Distributed asymmetrically over the whole height of the accumulator, with greater surface in the lower cap, which favors a homogeneous distribution of the water temperature.

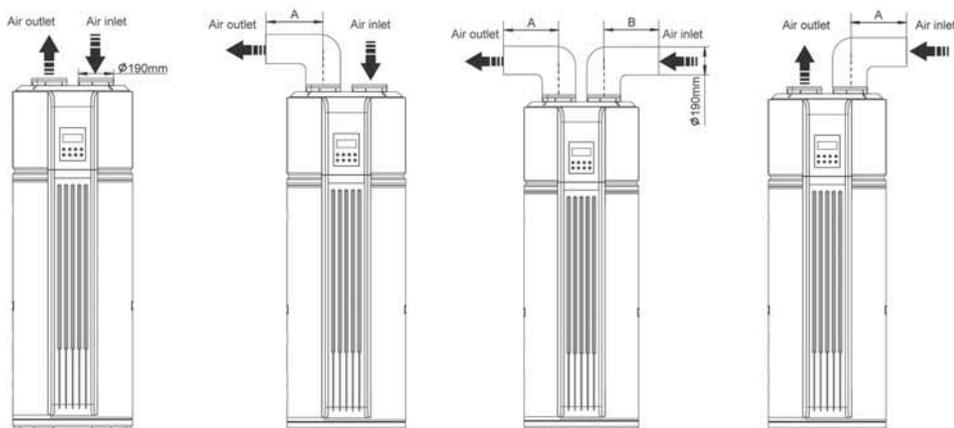
Models of 150 and 200 liters capacity: Operation with heat pump and / or resistance support, 1 or 2, for a total operation autonomy. Helical fan for free discharge.

Models for 300 capacity liters: Equipped with an hydraulic exchanger to connect to a solar energy installation or to any other energy production system. Centrifugal fans that allow the conduction of condensation air, which increases the installation POSSIBILITIES and / or operation and increases performance.

TECHNICAL FEATURES

Model		150 L	200 L	300 L
Code		SO 30 010	SO 30 011	SO 30 012
Working conditions, room temp.		°C	-7 / 43	-7 / 43
Nominal capacity		Liters	150	190
Power given / consumed		kW	1.85 / 0.53	3 / 0.83
COP			3.5	3.6
Min.-max. consumption		A	2.4 - 11.5	2.4 - 11.5
Voltage		V-Hz	230V-I-50Hz	230V-I-50Hz
Air flow rate		m³/h	350	350
Sound level		dB(A)	48	48
Dimensions (D x H)		mm	568/1430	568/1580
Weight (net / package)		kg	87/98	91/102
Refrigerant type / load		kg	R134a/0.8	R134a/1.2
Hydraulic connections		mm	DN20	DN20
Test pressure		bar	12	12
Max. working pressure bar		bar	7	7
Water inlet/outlet temperature		°C	38/70 prefixed 60	38/70 prefixed 65
Solar hydraulic exchanger	Connections	mm	-	DN20
	Tube diam / long.	mm	-	Ø22/10000
	Max. pressure	bar	-	7
Condensation air	Connection diameter	mm	-	190
	ASP	mm WCLM	-	30
Max. ducts length		m	-	10
Support resistance		kW	2	3

Different solutions of the condensation air intakes. In all cases the maximum length will be 10 m. In the case of conducting the entrance and exit, the sum of both ducts will be equal to or less than 10 m.



NEW
150 liters



150 L and 200 L



300 L



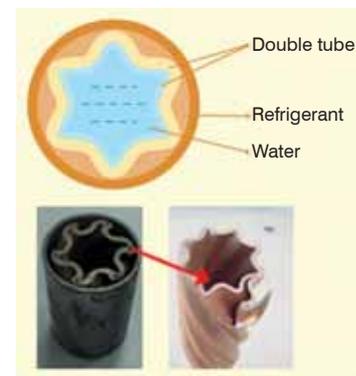
300 L + hydraulic Kit

HEAT PUMP FOR SHW SPLIT System

The most efficient option to cover the hot water supply for home installation and for the service sector (gyms, residences, small urban hotels, etc.). It has a daily consumption of up to 3000 l / day. For the best performance it is necessary to analyze the actual demand of the place and to store enough sanitary hot water.

The system consists of an air-water heat pump, which incorporates a tubular heat exchanger, liquid water, with double chamber, which ensures the tightness between the coolant and the water, even in the event of leakage. With the highest power model (7.2 kW) we can have 1000 liters at 55 °C first thing in the morning, enough to meet the peak demand of approximately 35 to 40 shower services at 40 °C.

Installation is very simple. Insulated copper tubing connects the heat pump to the accumulator, up to a maximum distance of 5 m and a maximum level difference of 3 m, between the outdoor unit and the accumulator. The circulation pump, built-in the outdoor unit, heats the water of the accumulator as it passes through the exchanger. The temperature control is carried out by means of an electronic board built-in the outdoor unit.



Tubular exchanger detail

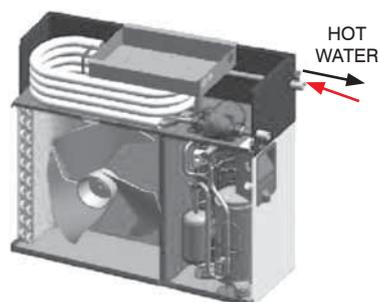
TECHNICAL FEATURES

Model		RSJF-50/CN1-A	RSJF-72/CN1-B
Code		SO 30 022	SO 30 023
Voltage	V-Hz	1-220V-50Hz	1-220V-50Hz
Thermal capacity	kW	5	7.2
Electric power	kW	1.29	2.02
COP		3.88	3.56
Consumption	A	5.9	8.5
Max. consumption	A	8	13.7
Start consumption	A	29.9	36.8
Air flow rate	m³/h	2000	3200
Sound level	dB(A)	55	55
Unit dimensions (W x H x D)	mm	790 x 736 x 260	840 x 940 x 324
Dimens. with packaging (W x H x D)	mm	905 x 807 x 355	965 x 1009 x 395
Weight	kg	62/66	81/86.5
Refrigerant / quantity	kg	R410A/1.22	R410A/1.3
Hydraulic connections		DN15	DN15
Max. length	m	5	5
Max. height for unit / accumulator	m	3	3

Working conditions

Performance tests: Outdoor temperature 7.0 / 6.0 °C (dry / wet bulb); Water inlet 30 °C, outlet 35 °C.

Operating temperatures -7 / 43 °C.



Heat Pump Diagram



RSJF-50/CN1-A





HEAT RECOVERY UNITS

ENERGETIC SAVING OF LAST GENERATION

The current legislation require us, through the RITE standards, to the use of heat recovery units that guarantee a renewed air at a reduced costs.

ENTALPHIC RECOVERY UNIT

MURE Series

FEATURES

- 2 operating speeds.
- Structured with flat and corrugated blades.
- Crossed flows.
- TOTAL heat recovery up to 75%.
- With great permeability. There is a tiny space between fibers in order to avoid pollution transfer.

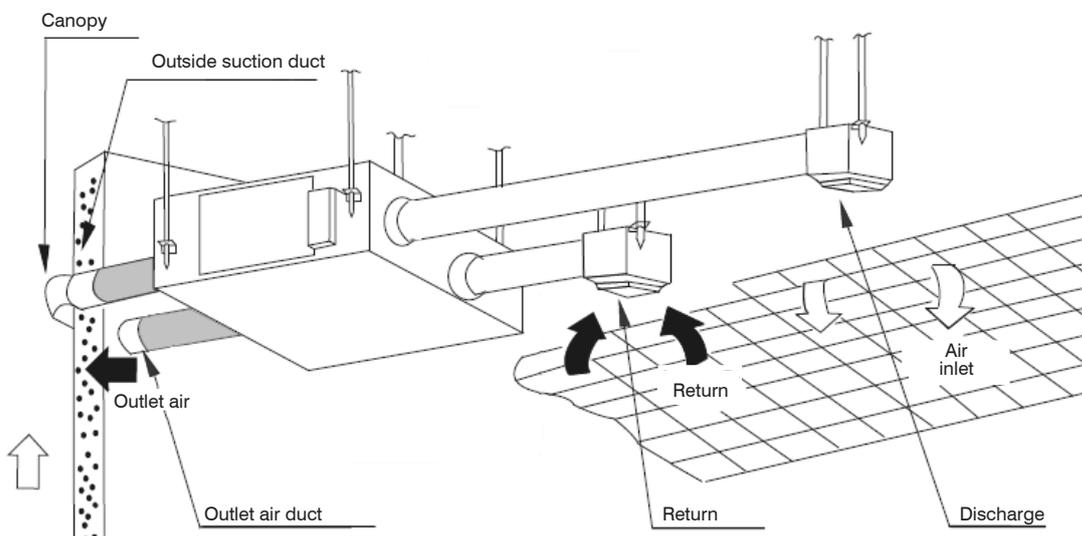


OPTIONAL

Centralized controller



For models 1500
(CL 92 911)



Model		MURE-1500
Code		CL 41 907
Air flow rate	m ³ /h	1500
Consumption	W	1260
Sound level	dB(A)	51
Power supply	V/Hz/Phase	380/ 50/3
Recovery unit efficiency	%	70
Static pressure	Pa	160
Net weight	kg	160
Dimensions (L x W x H):	mm	1500 x 540 x 1200

HEAT RECOVERY UNIT MU-RECO SN Series

Heat recovery units without additional heating contribution.

Motors:

- IP44, F Class (500, 800, 4400 and 5200 models)
- IP20, F Class (1200, 1900, 2400 and 3300 models)

- Single phase and three-phase models.
- Flow rate from 500 to 5,200 m³/h.
- Horizontal installation.

- **Side panel exchangers allowing multiple combinations.**



FEATURES

- Heat recovery with cross-flow exchanger mounted in galvanized steel boxes with internal thermal acoustic insulation made of 6 mm thick polyethylene foam (M1), configurable inlet and outlet openings with sealing.
- Available with different filtration levels (G4, M5, and low load loss micro-filters F6, F7, F8 and F9, made of polypropylene). Provided with filter holders that allow mounting of one or two filters in both air directions.

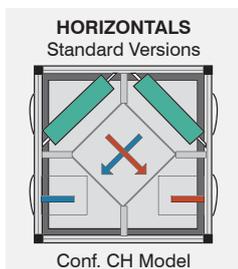
Versatile assembly

The design of this heat recovery units allows the user to set them up on site. There are several combinations of panel exchange. This allows to place, in a great number of cases, the impulsion / suction connections directly to the installation area according to the specific requirements.



Easy servicing

Quick access to filters from top, bottom and side part.



Standard configuration

Various layouts can be made very quickly and easily by the professional installer.



Robustness

High quality finishings. Aluminium framework providing high robustness.



High-efficiency filters

Combine up to two filters in each direction of the air. Conventional filters G4 and M5. F7 and F9 filters very low load loss, made of polypropylene.



CONDENSATE WATER DRAINAGE

Drain pipe that allows condensate water outlet.



Easy to install

Single phase models with brackets for mounting on suspended ceiling. Three-phase models with feet for floor mounting.



Sealed external terminal box

Except for 500 and 900 models. Single phase models with external sealed box of terminals, IP65.



Sealed box

Rubber sealed joints in the tap cover and in the suction/discharge flanges providing a tight sealing.

Heat Recovery Unit MU-RECO SN

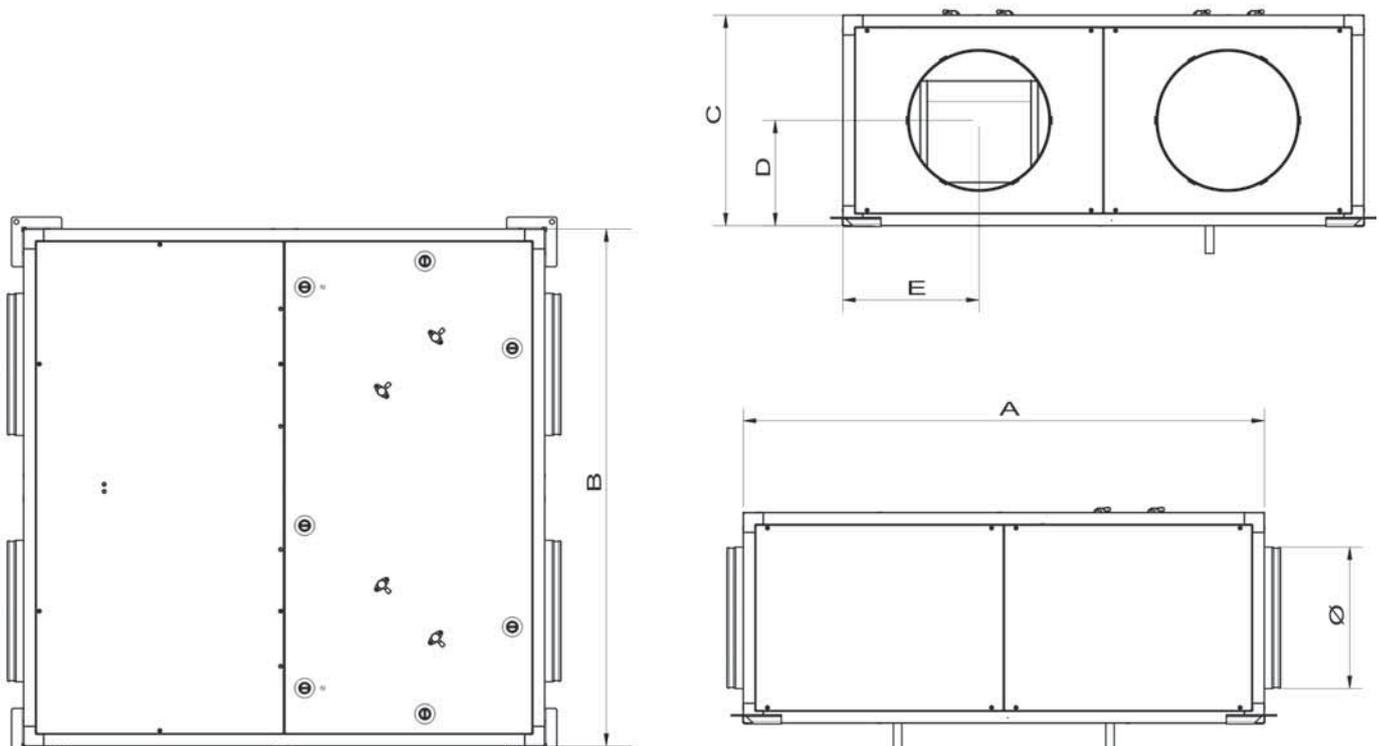
TECHNICAL FEATURES

Code	Model	Motor Power kW	Intensity max. current consump. 50Hz (A)		Speed r.p.m.	IP Protection	Efficiency %*	Sound pressure at 3 m dB (A)**		
			230V	230/400V				Suction	Discharge	Distribution
CL 41 781	MU-RECO 500 SN	2 x 0.29	2 x 1.32	-	2880	IP44	52	42	55	41
CL 41 782	MU-RECO 900 SN	2 x 0.30	2 x 1.38	-	2880	IP44	55	42	55	41
CL 41 783	MU-RECO 1200 SN	2 x 0.373	2 x 2.75	-	1357	IP20	54	54	66	52
CL 41 784	MU-RECO 1900 SN	2 x 0.373	2 x 2.75	-	1357	IP20	49	54	66.5	52.5
CL 41 785	MU-RECO 2400 SN	2 x 0.55	2 x 4.44	-	1324	IP20	50	55	67	53
CL 41 786	MU-RECO 3300 SN	2 x 0.55	2 x 4.44	-	1251	IP20	50	55	67.5	53
CL 41 787	MU-RECO 4400 SN	2 x 1.5	-	2 x 10.1/5.8	1462	IP44	50	57	70	56
CL 41 788	MU-RECO 5200 SN	2 x 1.5	-	2 x 10.1/5.8	1462	IP44	52	58	71	57

*Values for the following conditions: Outside air temperature -5 °C, inside air temperature +20 °C, with 80% inside RH / 70 % max. flow rate.
 ** Average sound pressure in free field environment.

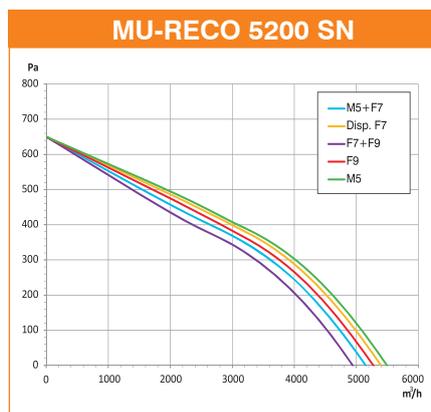
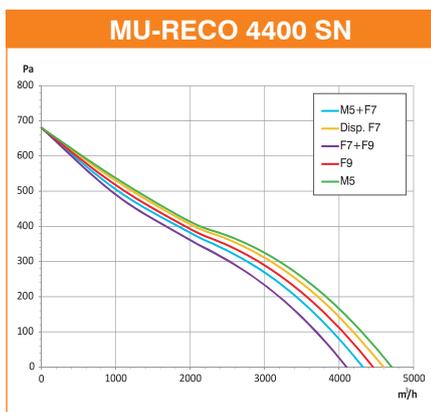
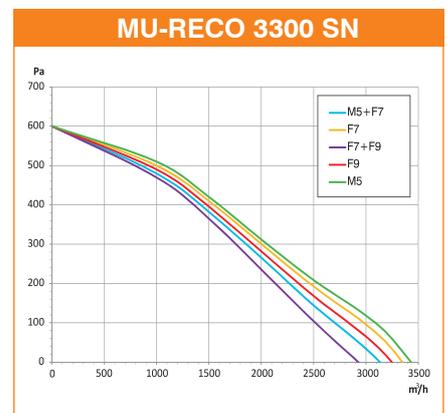
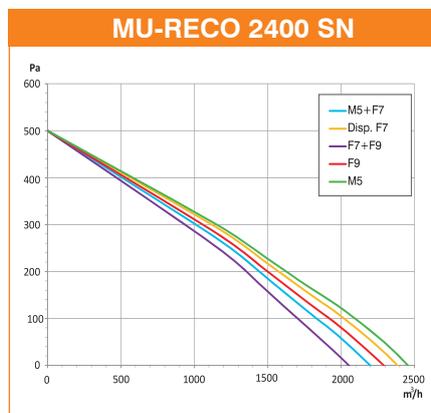
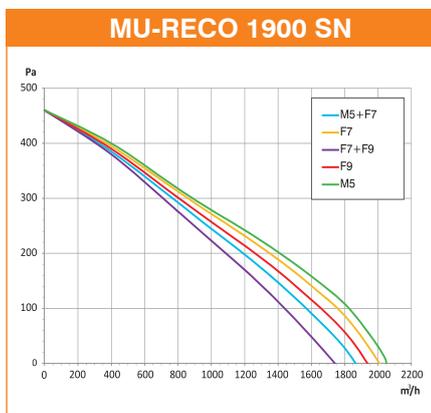
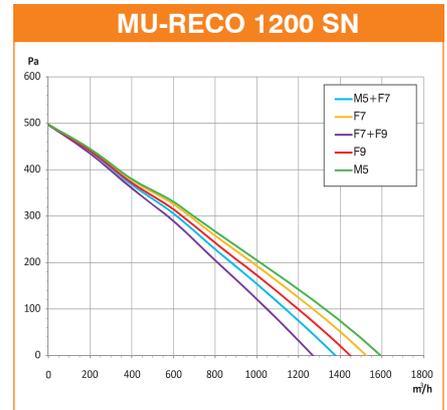
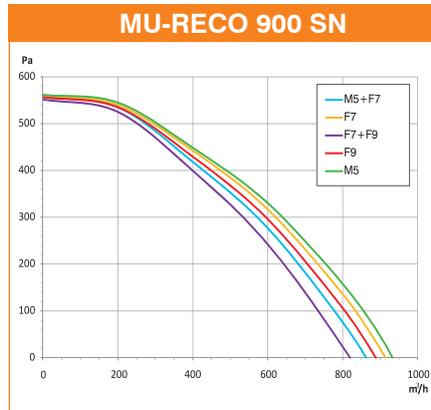
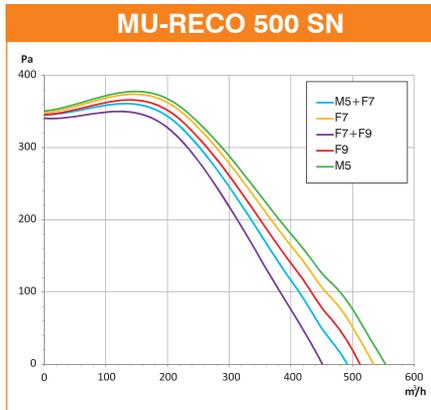
DIMENSIONS (mm)

Code	Model	A	B	C	D	E	Ø	Weight (kg)
CL 41 781	MU-RECO 500	650	650	360	180	178	200	46
CL 41 782	MU-RECO 900	850	850	360	180	228	250	65
CL 41 783	MU-RECO 1200	1050	1050	500	250	278	315	113
CL 41 784	MU-RECO 1900	1150	1150	500	250	303	355	123
CL 41 785	MU-RECO 2400	1300	1300	530	265	340	355	154
CL 41 786	MU-RECO 3300	1500	1500	530	265	390	400	190
CL 41 787	MU-RECO 4400	1600	1600	700	300	415	450	215
CL 41 788	MU-RECO 5200	2000	2000	750	325	515	500	400



Heat Recovery Unit MU-RECO SN

TYPICAL MAXIMUM SPEED CURVES:



- qv = flow rate in m³/h.
 - P_{sf} = Static pressure in Pa.
 P(W) = Absorbed power at the maximum speed (W).
 Normal dry air at 20 °C and 760 mmHg mercury column. Hg.
 - In accordance with ISO 5801 and AMCA 210-99 standards.

Additional load losses
Resistance: 10 Pa (all models)
Water batteries 45Pa





AIR CURTAINS

A WARM WELCOME

Keeping the doors open involves a huge waste of energy in most buildings.

Proper installation of an air curtain can reduce energy loss through open doors by 90%.

In addition to the significant energy savings, air curtains improve the healthiness of the environment and allow you to keep the doors open even during winter, which allows the entry of customers in stores.

The air curtains have a slogan:
“A warm welcome...”

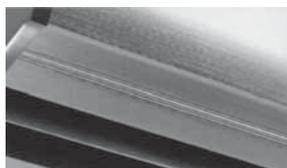
AIR CURTAINS SILVER Series

FEATURES

- Innovative design without visible hardware.
- Aluminium and ABS.
- Remote control and control panel.
- Operation indicator.

Easy to open, practical design that uses no screws on the outside deck. The stainless housing is made of high strength aluminum and high quality ABS. With unique guide bar design, which enables the production of air in all directions, being able to adapt to different environments.

It can be controlled by the remote control and control panel. It has a switch for high and low speed. Provided with an optimized electric machinery, it works safely and effectively.



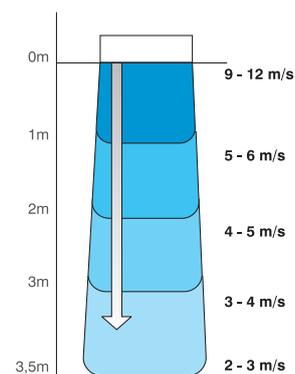
Fine metal blades provide a better control of the airflow.



Integrated design with metal side cover.



Buttons with light indicator



High performance, high efficiency.

TECHNICAL FEATURES

Model			MU-ALU 09	MU-ALU 12	MU-ALU 15	MU-ALU 18	MU-ALU 20
Code			EC 06 475	EC 06 476	EC 06 477	EC 06 478	EC 06 479
Air flow rate	H (high)	m³/h	1,100	1,500	1,900	2,280	2,520
	L (low)	m³/h	900	1,200	1,500	1,800	2,100
Speeds		Nº	2	2	2	2	2
Remote control			YES	YES	YES	YES	YES
Manual control			YES	YES	YES	YES	YES
Consumption	H (high)	W	230	290	380	450	470
	L (low)	W	200	260	350	420	440
Voltage		V-Hz-Ph	220-50-1	220-50-1	220-50-1	220-50-1	220-50-1
Sound level	H (high)	dB(A)	52	53	55	57	58
	L (low)	dB(A)	49	50	52	55	56
Net weight		kg	13	15.5	20	23.5	27
Dimensions	Length	mm	900	1200	1500	1800	2000
	Height	mm	230	230	230	230	230
	Depth	mm	215	215	215	215	215

AIR CURTAINS INOX Series

FEATURES

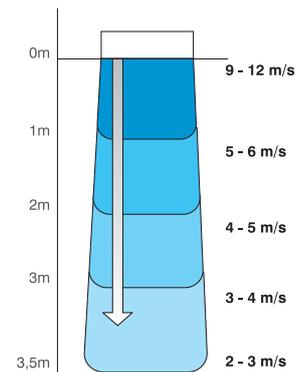
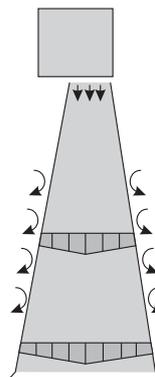
- Stainless steel housing.
- Special design.
- Manual controller.
- Two speeds.
- Ideal for saline environments.

The outer casing made of stainless steel is easy to clean and offers a high resistance against fire.

With unique guide bar design, which enables the production of air in all directions, being able to adapt to different environments.

It has a switch for high and low speed.

Provided with an optimized electric machinery, it works safely and effectively.



High performance,
high efficiency.

TECHNICAL FEATURES

Model			MU-IN 12	MU-IN 15	MU-IN 18
Code			EC 06 472	EC 06 473	EC 06 474
Air flow rate	H (high)	m³/h	1,500	1,900	2,280
	L (low)	m³/h	1,200	1,500	1,800
Speed	H (high)	m/s	16	16	16
	L (low)	m/s	13	13	13
Remote control			NO	NO	NO
Manual control			YES	YES	YES
Consumption	H (high)	W	290	380	450
	L (low)	W	260	350	420
Voltage		V-Hz-Ph	220-50-1	220-50-1	220-50-1
Sound level	H (high)	dB(A)	53	55	57
	L (low)	dB(A)	50	52	55
Net weight		kg	18.5	25	30
Dimensions	Length	mm	1200	1500	1800
	Height	mm	241	241	241
	Depth	mm	215	215	215

*Max recommended installation height: 3.5 meters

AIR CURTAINS

MU-ECO Series

FEATURES

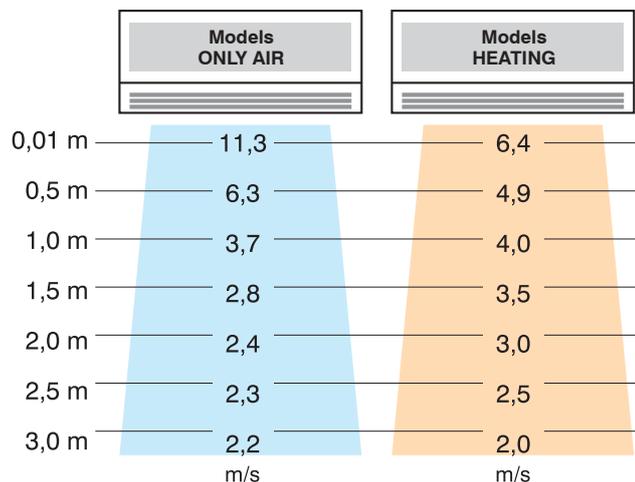
- Metallic casing.
- Various sizes, from 90 to 150 cm.
- Microprocessor control.
- Remote control (see model).
- High speed.



Mod. Only air



Mode with heating



Keeping the doors open involves a huge waste of energy in most buildings. Proper installation of an air curtain can reduce energy loss through open doors by 90%. In addition to the significant energy savings, air curtains improve the healthiness of the environment and allow you to keep the doors open even during winter, which allows the entry of customers in stores.

The air curtains have an operating slogan: "A warm welcome..."

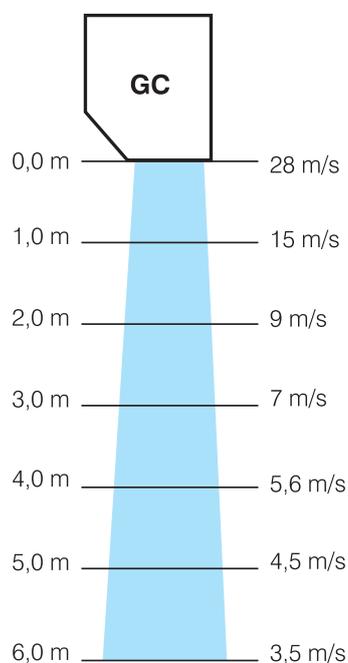
TECHNICAL FEATURES

MU-ECO Model		ONLY AIR REMOTE CONTROL			WITH HEATING ELECTRICAL SINGLE PHASE			WITH HEATING ELECTRICAL THREE PHASE		
		09	12	15	09/6R	12/8R	15/8R	09/6R3	12/8R3	15/8R3
Code		EC 06 480	EC 06 481	EC 06 482	EC 06 483	EC 06 484	EC 06 485	EC 06 486	EC 06 487	EC 06 488
Air flow rate	m³/h	1,020	1,360	1,700	912	1,280	1,670	912	1,280	1,670
Heating power	kW	—			6	7.2	9	6	7.2	9
Voltage	V-Hz-Ph	220 - 50 - I			220 - 50 - I			380 - 50 - III		
Speeds	Nº	3			2			2		
Applicable height	m	3			3			3		
Fan power consumption	W	186/ 238/322	218/ 285/419	291/ 381/536	96/156	126/178	154/207	96/156	126/178	154/207
Power consumption in heating	W	—			6,120	7,380	9,250	6,120	7,380	9,250
Control		Remote			Remote and manual			Remote and manual		
Sound level	dB(A)	53	54	56	55	57	59	55	57	59
Height	mm	230	230	230	221	221	221	221	221	221
Length	mm	900	1,200	1,500	900	1,200	1,500	900	1,200	1,500
Depth	mm	212	212	212	183	183	183	183	183	183
Net weight	kg	15	20	23.5	15.5	19.5	23.5	15.5	19.5	23.5

GREAT FLOW AIR CURTAIN MU-ECO GC Series

FEATURES

- Centrifugal type fan.
- High efficiency design.
- High air flow.
- High static pressure.
- Metal housing, fire resistant.
- Maximum installation height: 6 m.
- Easy installation.
- Power supply: 220V-50HZ-1 Ph.



Double shaft motor.



Metallic fan.



Metal fan housing.



Centrifugal fan of high capacity.



Metallic casing.



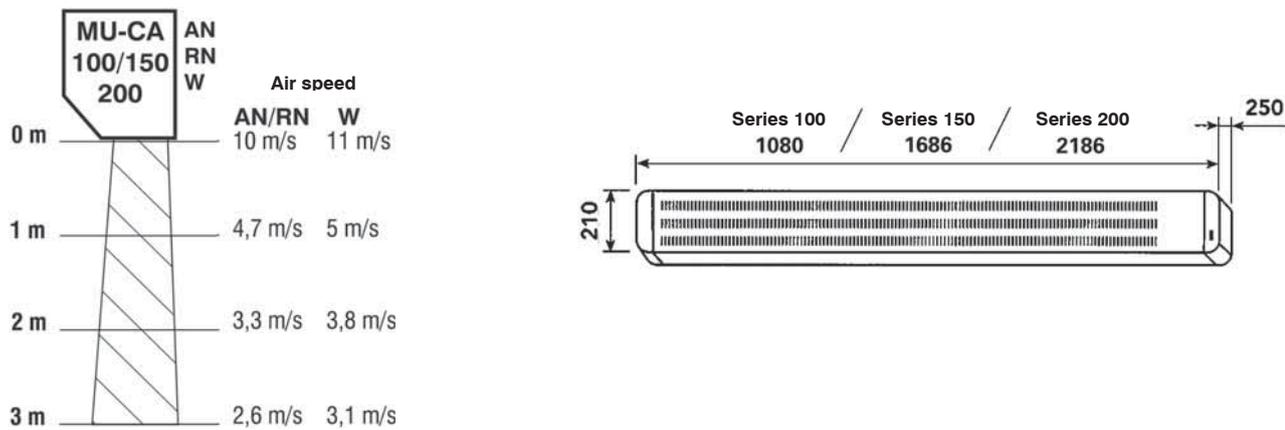
Max recommended height 6 m.

TECHNICAL FEATURES

Model		MU-ECO 10 GC	MU-ECO 12 GC	MU-ECO 15 GC
Code		EC 06 420	EC 06 424	EC 06 425
Air flow rate	m ³ /h	3,709	3,709	3,563
Motor power	kW	1.5	1.5	2.25
Absorbed current	A	9.44	9.44	14.42
Air speed	m/s	30	30	30
Sound level	dB(A)	72	72	72
Height	mm	287	287	287
Length	mm	1,000	1,200	1,500
Depth	mm	297	297	297

AIR CURTAINS

MU-CA Series



TECHNICAL FEATURES

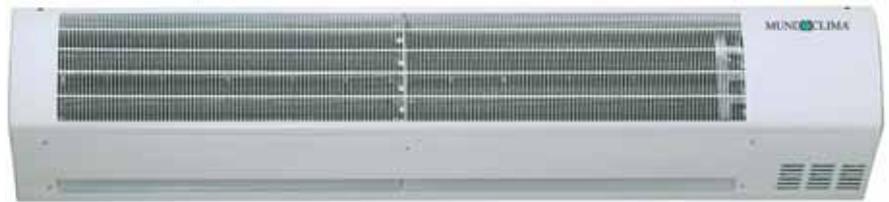
Model MU-CA		100AN	150AN	200AN	100RN3,5	100RN6	100RN9	150RN9	150RN12	200RN18	100-W9	150-W15	200-W24
Code	EC 06	381	382	363	383	384	386	385	387	388	400	401	402
Power supply	V	230V II	230V II	230V II	230V II	400V III	230V II	230V II	230V II				
Heating power	kW	-	-	-	3.5	3/6	4.5/9	4.5/9	6/12	9/18	9	15	24
Speeds		2	2	2	3	3	3	3	3	3	3	3	3
Air flow rate	m³/h	1,420	2,675	2,744	1,384	1,384	1,295	2,545	2,500	2,600	1,623	2,812	2,890
Air outlet speed	m/s	10.5	10.5	8.79	10	10	10	10	10	10	11	11	8.1
Sound level	dB(A)	48	50	49	48	48	48	50	49	49	48	50	48.6
Absorbed intensity	A	0.5	0.8	0.63	15.5	8.6	13	13	17.3	26	0.5	0.8	0.7
Thermal jump	ΔT	-	-	-	9/11/18	14/ 18/26	20/ 25/30	13/ 15/25	18/ 20/30	20/ 25/30	20-25-29	20-25-29	23-28-32
Outdoor control (wall)		Included	Included	Included	Included	Included	Included	Included	Included	Included	Included	Included	Included
Weight	kg	15.2	20	26	15.8	15.8	15.8	20.8	22	20.8	19	25	33
White color	RAL	9003	9003	9003	9003	9003	9003	9003	9003	9003	9003	9003	9003
Length	mm	1,080	1,686	2,186	1,080	1,080	1,080	1,686	1,686	2,186	1,080	1,686	2,186

GREAT HEIGHT AIR CURTAIN

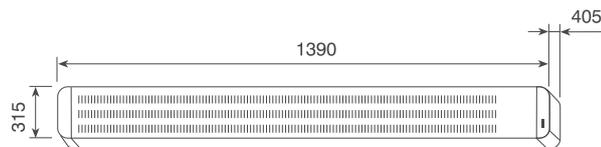
MU-CA Series

FEATURES

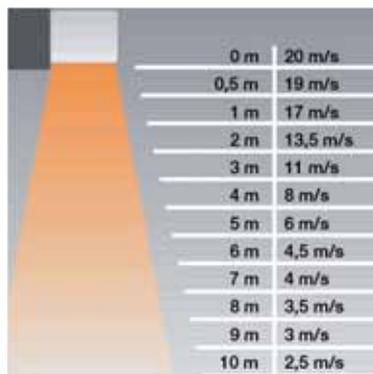
- For 4 - 8 m doors.
- Horizontal installation.



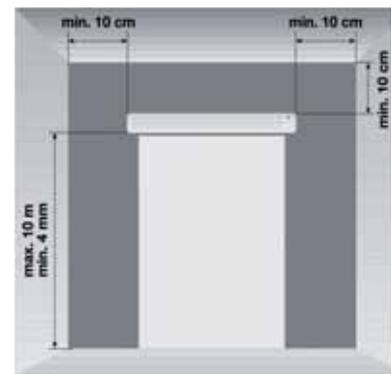
Control
MU-CR 20-30



Series 1000



Distance/air speed



Installation height

TECHNICAL FEATURES

Model MU-CA		1000F	1500F	1000E18	1000E24	1500E24	1500E36	1000W33	1000W50
Code		EC 06 390	EC 06 391	EC 06 392	EC 06 393	EC 06 394	EC 06 395	EC 06 396	EC 06 397
Power supply	V	230	230	400+N	400+N	400+N	400+N	230	230
Heating power	kW	-	-	9/18	12/24	12/24	18/36	33	33
Thermal jump	DT	-	-	5/7/11/13	7/9/14/17	5/6/10/11	7/8/15/17	20/33	20/33
Speeds	Nº	2	2	2	2	2	2	2	2
Air flow rate	m³/h	4100/5200	6700/8300	4100/5000	4100/5000	6500/7500	6500/7500	4100/5200	6500/7500
Output speed	m/s	20	20	20	20	20	20	16	16
Max. current consump.	A	3	5	27	36	36.5	54	3	5
Controller		Optional							
Sound level	dB(A)	62	70	62	62	70	70	62	70
Weight	kg	40	50	45	45	55	55	40	50

AIR CURTAINS

AC Series

FEATURES

- Horizontal installation.
- Innovative design.
- Steerable discharge grille.
- White finish RAL 9010.

The range of AC curtains has been designed with a pleasant aesthetic.

The visual impact is minimal, even if performed by a floating facility glass doors.

The unit provides a climate separation, while preventing the entry of foreign microorganisms and dust.

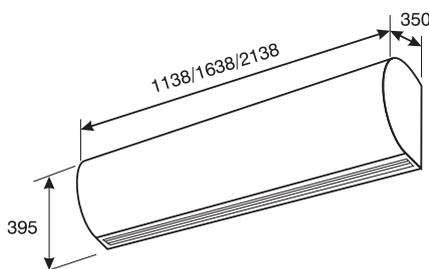
The semicircular shape in white RAL9010 is certainly an added value to the interior aesthetic design of all buildings.

It can be installed next to other units, allowing its use on doors of various sizes.

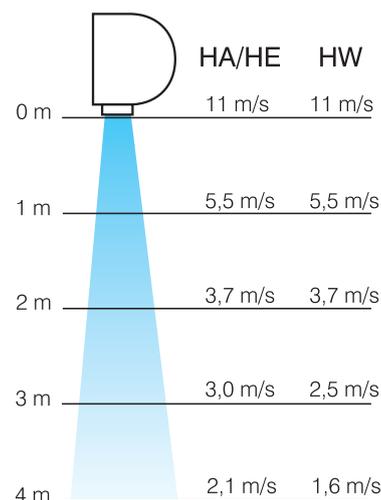
Available in: only cooling, electrical and hydronic heating versions Driven by remote control.



Remote Control



Airspeed depending on height



TECHNICAL FEATURES

Model		ONLY AIR			WITH ELECTRIC BATTERY			WITH WATER BATTERY		
		AC1000HA	AC1500HA	AC2000HA	AC1000HE9	AC1500HE12	AC2000HE18	AC1000HW12	AC5000HW18	AC2000HW24
Code		EC 06 443	EC 06 444	EC 06 445	EC 06 446	EC 06 447	EC 06 448	EC 06 449	EC 06 450	EC 06 451
Power supply	V	230	230	230	400	400	400	230	230	230
Heating power	kW	-	-	-	9	12	18	12	18	24
Thermal jump	ΔT	-	-	-	25/35	26/33	23/29	26/33	23/29	20/27
Speeds	Nº	2	2	2	2	2	2	2	2	2
Air flow rate	m³/h	1850/2300	2400/3300	4100/5000	1850/2300	2400/3300	4100/5000	1850/2300	2400/3300	4100/5000
Output Speed	m/s	8.5/11	8.5/11	8.5/11	8.5/11	8.5/11	8.5/11	6.4/9.4	6.4/9.4	6.4/9.4
Current	A	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Controller		Included	Included	Included	Included	Included	Included	Included	Included	Included
Sound level	dB(A)	55/60	55/60	55/60	55/60	55/60	55/60	55/60	55/60	55/60
Weight	kg	39.5	49	60	39.5	49	60	39.5	49	60
High / Bottom	mm	395/350	395/350	395/350	395/350	395/350	395/350	395/350	395/350	395/350
Length	mm	1138	1638	2138	1138	1638	2138	1138	1638	2138
Color		RAL 9010	RAL 9010	RAL 9010	RAL 9010	RAL 9010	RAL 9010	RAL 9010	RAL 9010	RAL 9010

AIR CURTAINS MU-EMP Series

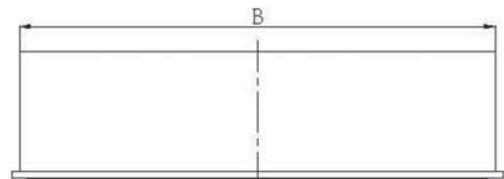
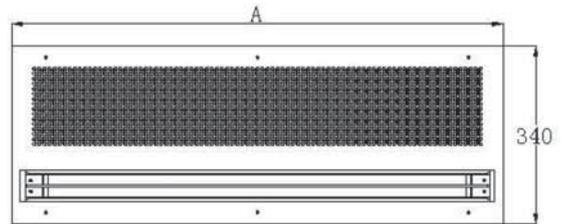
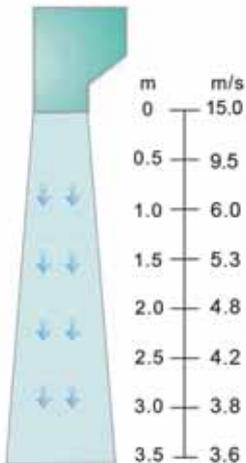
FEATURES

- Specially designed for ceiling installation.
- Metallic casing.
- 3-speed motor.
- Remote control.
- Installation height: 3.5 m.



Remote control

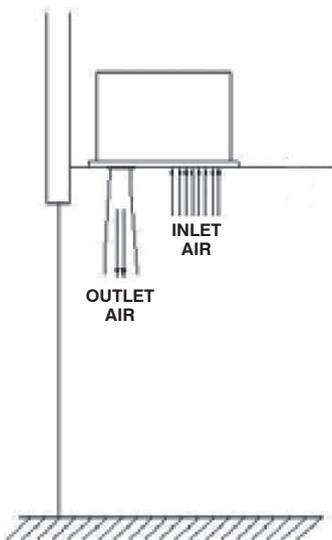
MU-EMP



Model	A	B
MU-EMP 09	930	900
MU-EMP 12	1230	1200
MU-EMP 15	1530	1500

TECHNICAL FEATURES

Model		MU-EMP 09	MU-EMP 12	MU-EMP 15	
Code		EC 06 467	EC 06 468	EC 06 469	
Unit length		mm	900	1200	1500
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Motor power	H (high)	W	295	360	455
	M (medium)	W	217	272	333
	L (low)	W	175	235	272
Air outlet speed	H (high)	m/s	15	15	15
	M (medium)	m/s	12,5	12,5	12,5
	L (low)	m/s	10	10	10
Air flow rate	H (high)	m³/h	1020	1360	1700
Sound level	H (high)	dB(A)	53	54	56
	L (low)	dB(A)	51	52	54
Gross weight		kg	17.2	21.8	29.1



1. Available with nominal tension and personalized frequency.
2. The pressure level is heard at 1 m distance under the air outlet.
3. Standard units are equipped with European plugs.
4. Customized plugs available.





DEHUMIDIFIER, HEATERS AND EVAPORATIVE UNITS

MODERN AND ELEGANT DESIGN

In the living and working environments, ensuring a correct humidity is not a luxury but a factor of well-being, health and productivity.

Moisture control preserves from the damage caused by dry air, even on furniture and wooden floors, paintings and antiquarian objects.

DEHUMIDIFIER MH Series

MH-10-V5 / MH-20-V5

- Electronic control.
- Adjust air flow (3 speeds).
- ON/OFF Timer.
- Humidity level adjustment between 35-80%.
- LED Display.
- Possibility to connect to continuous drain.
- Water level viewer.
- Incorporates wheels for easy transport.
- Temperature range Operating temperature 5-35 °C.
- Memory function / auto-ignition.
- Anti-overflow protection.
- Automatic defrost.
- Tank with 4 L capacity.



MH-10-V5 / MH-20-V5



MH-40-V5

MH-40-V5

- Electronic control.
- Memory function / auto power on.
- ON/OFF Timer.
- Anti-overflow protection.
- Water level viewer.
- Automatic defrost.
- LED Display.
- Incorporates wheels for easy transport.
- Possibility to connect to continuous drain.
- Tank with 6 L capacity.



MH-60-N / MH-80-N

MH-60-N / MH-80-N

- Modern and elegant design.
- High dehumidification capacity.
- High efficiency rotary compressor.
- Electromechanical controller.
- Possibility to connect to continuous drain.
- Incorporates wheels for easy transport.
- Tank with 7.2 L capacity.

TECHNICAL FEATURES

Model		MH-10-V5	MH-20-V5	MH-40-V5	MH-60-N	MH-80-N
Code		HU 10 530	HU 10 531	HU 10 504	HU 10 509	HU 10 511
Power supply	V - Hz	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Absorbed power	W	330	480	560	1,150	1,350
Dehumidification	liters/day*	10	20	40	60	80
Air flow (High/Medium/Low)	m³/h	150/120/100	180/160/140	345/-/320	400/-/-	400/-/-
Dimensions	Width	mm	343	343	392	481
	Height	mm	525	525	616	628
	Deep	mm	262	262	282	286
Weight	kg	13	15.5	18.1	22.5	23
Refrigerant		R 134a	R 134a	R 410a	R 410a	R 410a

*30 °C / 80% RH.

WALL HEATER MUR Series

Economic Series MUR

- Infrared remote control.
- Manual control button in the unit.
- Power 220 V - 50 Hz.
- 2 powers selectable 1000 W - 2000 W.
- Operation indicator light.
- Timer 0.5 to 7.5 hours.
- Dimensions: 453 x 182 x 113 mm.
- Fixed fins.



Code CE 04 201



MUR-LUXUS Luxus Series

- Temperature control.
- Air Swing function.
- Remote controller for infrared rays.
- Manual controller of the unit.
- Power 220 V - 50 Hz.
- 2 powers selectable 1 000 W - 2 000 W.
- Timer 0.5 to 7.5 hours.
- Dimensions: 618 x 208 x 127 mm.
- Steerable fins.
- Front digital indication from temperature.



Code CE 04 202



It is perfect for open rooms. Offices, bathrooms, kitchens, etc.



PORTABLE EVAPORATIVE AIR CONDITIONER MUEV-ECO Series

FEATURES

- Remote control and control panel.
- Water curtain system free of germs.
- Antibacterial tank (8 liters).
- Two stages heating: 1000W/2000W.
- Ability to add ice cubes.
- Three ventilation speeds.
- Wheels for better mobility.
- Low sound level.
- Low consumption LED display.
- 8 h Timer

ITS OPERATION

The evaporative cooling is one of the most efficient methods to save energy and cool a room. Your power consumption is less than the alternatives.

It is also considered environmentally friendly because the process does not require chemical agents that could damage the ozone layer.

Based on the physical phenomenon of evaporation, it is only necessary a small amount of water to start the process.

The hot air is pushed to pass through an high efficiency and long lasting antigerm fabric, through this fabric circulate water in a close circuit.

The outside temperature is reduced by the evaporative process, and so is the cooled air introduced into the building by the fan.

In this way we get...

ADVANTAGES OF THE EVAPORATIVE SYSTEM

- Very low electrical consumption.
- Reduced water consumption due to its circulation in a closed-loop.
- It delivers 100% fresh air without impurities.
- Low sound level.
- Speed control at will.
- Easy servicing.

HEALTH

The conditioners clean the air, using 100% of fresh and new air.

It does not dry the air as conventional ventilation equipments. The humidity is maintained, resulting beneficial to our body, animals, plants ... Especially recommended for allergic and asthmatic persons, as those who suffer from migraines or have dust or mites allergy.



PROVED EFFICIENCY

The decrease of temperature in the room depends on the amount of water absorbed by air according to:

- Relative humidity on the air.
- Evaporation capacity of water (depending on the temperature and hardness).
- Ventilation capacity of the location.

TECHNICAL FEATURES

Model	MUEV-2000-ECO
Code	CE 04 206
Voltage	AC220 240V/50Hz
Consumption in cooling	70W
Consumption in heating	1000/2000W
Electric protection	Type II
Air volume	350 m³/h
Net weight	6.5 kg
Tank capacity	8 L
Dimensions (LxWxH)	370 x 320 x 735

PORTABLE EVAPORATIVE AIR CONDITIONER

MUEV-C7 Series

NEW

FEATURES

- Portable evaporative air conditioner recommended to refresh rooms until 17 m².
- Ideal for dry environments.
- Temperature drop from 5~15 °C depending on the humidity level of the air.
- Air inlet all around the unit.
- Easy detachable which allows easy cleaning and maintenance.
- Includes wheels for better mobility.
- Automatic blade swinging.
- Remote control included.

OPERATION

The evaporative cooling is one of the most efficient methods to save energy and cool a room. Your power consumption is less than the alternatives. Moreover, it is also considered environmentally friendly because the process does not require chemical agents that could damage the ozone layer.

Based on the physical phenomenon of evaporation, it is only necessary a small amount of water to start the process.

The hot air is pushed to pass through an high efficiency and long lasting antigerm fabric, through this fabric circulate water in a close circuit. The outside temperature is reduced by the evaporative process, and so is the cooling air process.



TECHNICAL FEATURES

Model		MUEV-1500-C7
Code		HU 01 207
Power supply	V / Hz	230 / 50
Air Flow (High / Medium / Low)	m ³ /h	1500 / 1200 / 900
Consumption	W	108
Sound level	dB(A)	58
Water tank volume (liters)	L	11.5
Continuous use time with full water tank	hours	7.5 ~ 10
Cooling pads	Units	4
Recommended surface	m ²	17
Dimensions (W x H x D)	mm	360 x 798 x 360
Weight	kg	8.5

Warning:

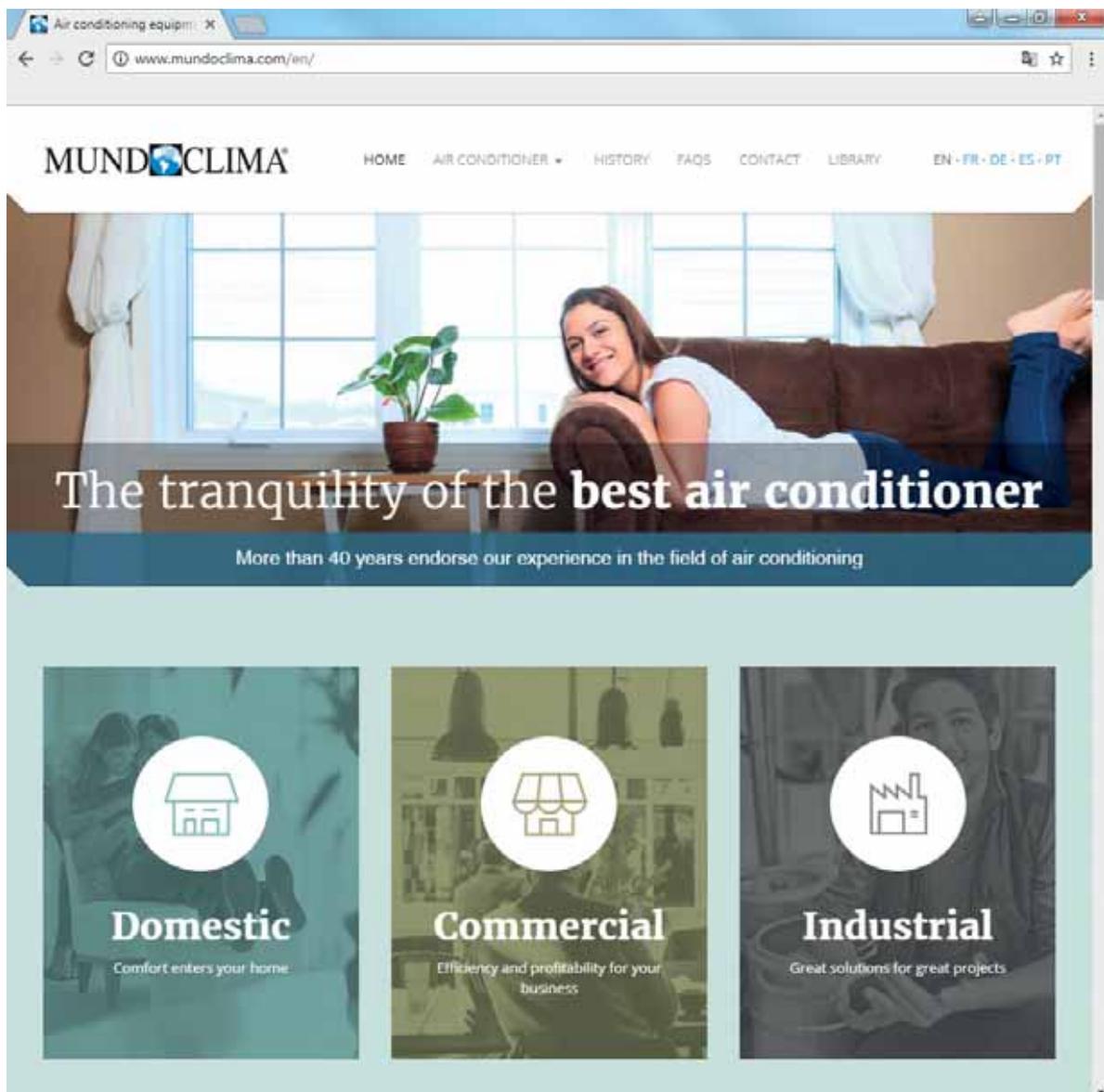
1. Data and specifications are subject to changes without previous notice.



www.mundoclima.com

Check the website for more information about our MUNDOCLIMA product range (Domestic, commercial and industrial air conditioning) and discover our new way of providing:

- + information
- + support
- + contact
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SALES OFFICES:

BARCELONA - Head office:
Provenza, 392 2nd floor
089025 Barcelona
Tel. + 34 93 446 27 80
Fax + 34 93 456 90 32
info@salvadorescod.com

STORES:

ALBACETE:
Pol. Campollano calle D n^o8
nave 15-22 - 02007 Albacete
Tel. 967 19 21 79
albacete@salvadorescod.com

ALICANTE:
Av. Neptuno, 5
03007 Alicante
Tel. 96 147 90 75
levante@salvadorescod.com

ALICANTE - Pedreguer:
C/.Metal-lurgia, Pol. Les Galgues
03750 Pedreguer
Tel. 96 147 90 75
levante@salvadorescod.com

ALICANTE- Almoradí:
Pol. Las Maromas
C/. Holanda, 10. 03160 Almoradí
Tel. 96 147 90 75
levante@salvadorescod.com

ALICANTE- Elche:
Pol. Ind. de Carrús
C/. Monovar, 35 - 03206 Elche
Tel. 96 147 90 75
elche@salvadorescod.com

ALMERÍA:
Carrera Doctoral, 22
04006 Almería
Tel. 950 62 29 89
almeria@salvadorescod.com

ASTURIAS:
Benjamin Franklin, 371
33211 Gijón
Tel. 985 30 70 86
gijon@salvadorescod.com

BADAJOS:
Pol. El Nevero, C/.14, n. 13.12
06006 Badajoz
Tel. 924 27 58 27
badajoz@salvadorescod.com

BADAJOS - Mérida:
Pol. El Prado. C/. Palencia, 19B
06800 Mérida
Tel. 924 10 22 02
merida@salvadorescod.com

BARCELONA:
Rosselló, 430-432 bjs.
08025 Barcelona
Tel. 93 446 20 25
bcn@salvadorescod.com

BARCELONA:
Viladomat, 161-163
08015 Barcelona
Tel. 93 707 99 41
viladomat@salvadorescod.com

BARCELONA - Badalona:
Industria 608-612
08918 Badalona
Tel. 93 460 75 56
badalona@salvadorescod.com

BARCELONA - Cornellà de Llob:
Ctra. del Mig, 63-65 (entre Silici y Energia)
08940 Cornellà de Llobregat
Tel. 93 377 16 75
cornella@salvadorescod.com

BARCELONA - Sant Boi:
Pol. Prologis Park, nave 5
C/. Filats, 7-11 - 08830 St. Boi
Tel. 93 377 16 75
tienda.santboi@salvadorescod.com

BARCELONA - Sant Boi Sta. Creu:
Ctra. de Sta. Creu de Calafell, 75
08830 Sant Boi de Llobregat
Tel. 93 707 94 13
santacreu@salvadorescod.com

BARCELONA - Barberà:
Marconi, 23
08210 Barberà del Vallès
Tel. 93 718 68 26
barbera@salvadorescod.com

BARCELONA - Terrassa:
Pol. Can Petit. Av. del Vallès,
724B. 08227 Terrassa
Tel. 93 736 98 89
terrassa@salvadorescod.com

BARCELONA - Manresa:
Pol. Els Dolors. C/.Sallent, 97-103
08243 Manresa
Tel. 93 566 90 06
manresa@salvadorescod.com

BARCELONA - Granollers:
Pol. Palou Nord, C/. Mollet, 18
08401 Granollers
Tel. 93 861 17 81
granollers@salvadorescod.com

BARCELONA - Mataró:
Carrasco i Formiguera, 29-35
Pol. Ind. Pla d'en Boet. CP 08302
Tel. 93 798 59 83
mataro@salvadorescod.com

BARCELONA - Vilanova i la Geltrú:
C/. Roser Dolcet, par. IP-01
Pol. Sta. Magdalena. CP 08800
Tel. 93 816 84 99
vilanova@salvadorescod.com

BURGOS:
C/. Alcalde Fdo. Dancausa n. 21
Pol. Gamonal. 09007 Burgos
Tel. 947 49 40 00
burgos@salvadorescod.com

CÁCERES:
Pol. Ind. Capellanías
Herrerros C-4 n 4. 10005 Cáceres
Tel. 927 03 06 49
caceres@salvadorescod.com

CÁDIZ - Jerez:
Pol. El Portal, C/. Sudáfrica s/n^o
P. E. M^a Eugenia, 1. 11408 Jerez
Tel. 956 35 37 85
jerez@salvadorescod.com

CÁDIZ - Algeciras:
Av. Caetaria, par. 318
11206 Algeciras
Tel. 956 62 69 30
algeciras@salvadorescod.com

CÁDIZ - S. Fernando/Pto. Real:
Pol. Tres Caminos. C/.Róbaldo 6
11510 Puerto Real
Tel. 956 06 06 20
cadiz@salvadorescod.com

CASTELLÓN:
Av. Enrique Gimeno, 24
Pol. C. Transporte. CP 12006
Tel. 96 147 90 75
levante@salvadorescod.com

CASTELLÓN - Vinaroz:
Polígono Ind. n^o 13
C/. B PP-1 - 12500 Vinaroz
Tel. 96 147 90 75
levante@salvadorescod.com

CIUDAD REAL:
Pol. Ctra. de Carrión, n. 110C
Hnos Lumière. 13005 Ciudad Real
Tel. 926 22 13 13
ciudadreal@salvadorescod.com

CÓRDOBA:
Juan Bautista Escudero, 219 C
14014 Córdoba
Tel. 957 32 27 30
cordoba@salvadorescod.com

CÓRDOBA - Lucena:
C/. Viñuela, 17 - Pol. La Viñuela
14900 Lucena
Tel. 957 10 47 10
lucena@salvadorescod.com

GIRONA:
Pol. Ind. Pla d'Abastaments
C/. Falgàs, 11- 17005 Girona
Tel. 972 40 64 65
girona@salvadorescod.com

GIRONA - Figueres/Cat. Nord:
Pol. Vilatenim. C/. Europa, 2
17600 Figueres
Tel. 972 67 19 25
figueres@salvadorescod.com

GRANADA:
Pol. Juncaril, C/. Lanjarón, 10
18220 Albolote
Tel. 958 49 10 50
granada@salvadorescod.com

HUELVA:
Pol. Industrial La Paz
parcela 71-B. 21007 Huelva
Tel. 959 27 01 02
huelva@salvadorescod.com

JAÉN:
Pol. Olivares, Cazaililla, p. 53
23009 Jaén
Tel. 953 28 03 01
jaen@salvadorescod.com

LEÓN:
Ctra. de Las Lomas n^o 4
24227 Valdelafuente
Tel. 987 03 45 52
leon@salvadorescod.com

LLEIDA:
Pol. Ind. Els Frares. Fase 3,
par. 71 nave 5-6. 25190 Lleida
Tel. 973 75 06 90
lleida@salvadorescod.com

LOGROÑO:
Pol. La Portalada II, pab. 4-5-6
C/. Segador, 26. 26006 Logroño
Tel. 941 58 69 08
larioja@salvadorescod.com

MADRID - San Fernando:
Av. de Castilla, 26 naves 10-11
28830 S. Fernando de Henares
Tel. 91 675 12 29
sanfernando@salvadorescod.com

MADRID - Centro:
Ronda de Segovia, 11
28005 Madrid
Tel. 91 469 14 52
rondasegovia@salvadorescod.com

MADRID - Alcalá de Henares:
Pol. Santa Rosa, área La Garena
Francisco Alonso, 3 nave 6. CP 28806
Tel. 91 299 82 46
alcala.henares@salvadorescod.com

MADRID - Fuenlabrada:
Pol. Ind. Cantueña. C/. Fragua, 8
28944 Fuenlabrada
Tel. 91 642 35 50
fuenlabrada@salvadorescod.com

MADRID - Rivas-Vaciamadrid:
C/. Electrodo, 88
28522 Rivas-Vaciamadrid
Tel. 91 499 09 87
rivas@salvadorescod.com

MADRID - Alcobendas:
Av. de Valdelaparra, 13
28108 Alcobendas
Tel. 91 661 25 72
alcobendas@salvadorescod.com

MADRID - Leganés/Alcorcón:
Pol. San José de Valderas
C/. Metal, 12 - 28918 Leganés
Tel. 91 675 04 96
alcorcon@salvadorescod.com

MÁLAGA:
C/. Brasília, 16 - Pol. El Viso
29006 Málaga
Tel. 952 04 04 08
malaga@salvadorescod.com

MÁLAGA - Marbella:
Polígono Ind. La Ermita
C/. Oro, 26. 29603 Marbella
Tel. 952 89 84 26
marbella@salvadorescod.com

MURCIA - San Ginés:
Pol. Oeste, Principal, p. 21/10
30169 San Ginés
Tel. 968 88 90 02
murcia@salvadorescod.com

MURCIA - Cartagena:
Polígono Cabezo Beaza
Luxemburgo I3.30353 Cartagena
Tel. 968 08 63 12
cartagena@salvadorescod.com

NAVARRA - Noain:
Pol. Ind. Talluntxe. C/. D n^o 33
31110 Noain
Tel. 948 31 62 01
pamplona@salvadorescod.com

PALMA DE MALLORCA:
C/. Gremi de Boneters, 15
Pol. Son Castelló - CP 07009
Tel. 971 43 27 62
mallorca@salvadorescod.com

SALAMANCA:
Av. Fuentesauco,73. Pol. Villares
37184 Villares de la Reina
Tel. 923 20 41 45
salamanca@salvadorescod.com

SEVILLA:
Pol. Ind. Store. C/. Nivel, 10
41008 Sevilla
Tel. 95 499 97 49
sevilla.store@salvadorescod.com

SEVILLA - Bollullos:
PIBO, Av. Valencina p. 124-125
41110 Bollullos de la Mitación
Tel. 95 499 97 49
bollullos@salvadorescod.com

SEVILLA - Dos Hermanas:
Pol. Ctra. Isla, Río Viejo, R-20
41703 Dos Hermanas
Tel. 95 499 97 49
laisla@salvadorescod.com

SEVILLA - Mairena:
Pol. PISA. C/. Desarrollo, 11
41927 Mairena de Aljarafe
Tel. 95 499 97 49
mairena@salvadorescod.com

TARRAGONA:
C/. del Ferro, 18-20
Pol. Riu Clar. 43006 Tarragona
Tel. 977 20 64 57
tarragona@salvadorescod.com

TARRAGONA - Reus:
Víctor Català, 46
43206 Reus (Tarragona)
Tel. 977 32 85 68
reus@salvadorescod.com

TOLEDO:
Pol. Sta. María Benquerencia
C/. Jarama, 62. 45007 Toledo
Tel. 925 33 41 97
toledo@salvadorescod.com

TOLEDO - Talavera de la Reina:
C/. Luis Braille, 12
45600 Talavera de la Reina
Tel. 925 10 79 36
talavera@salvadorescod.com

VALENCIA:
Río Eresma, s/n.^o
46026 Valencia
Tel. 96 147 90 75
levante@salvadorescod.com

VALENCIA - El Puig:
P. I. n^o 7, C/.Brosquil, n. III-IV
46540 El Puig
Tel. 96 147 90 75
levante@salvadorescod.com

VALENCIA - Paterna:
P. E. Táctica, C/. Corretger,
parcela 6. 46980 Paterna
Tel. 96 147 90 75
levante@salvadorescod.com

VALENCIA - Gandía:
Pol. Alcodar, C/. Brosquil, 6
46701 Gandía
Tel. 96 147 90 75
levante@salvadorescod.com

VALENCIA - Alzira:
Pol. n^o 1, Ronda Tintorers, 26
46600 Alzira
Tel. 96 147 90 75
levante@salvadorescod.com

VALLADOLID:
Pol. San Cristóbal, C/. Pirita, 41
47012 Valladolid
Tel. 983 21 94 52
valladolid@salvadorescod.com

ZARAGOZA - Argualas:
Polígono Argualas, nave 50
50012 Zaragoza
Tel. 976 35 67 00
zaragoza@salvadorescod.com

ZARAGOZA - Cogullada:
Ctra. de Cogullada 20, nave 3
50014 Zaragoza
Tel. 976 11 00 62
cogullada@salvadorescod.com

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Sales Offices

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08025 Barcelona

Tel.: + 34 93 446 27 80

Fax 93 456 90 32

info@salvadorescoda.com

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