

## 20 SPLIT TYPE CEILING-FLOOR MUSTR-H6

MUNDCLIMA®  
SUPER DC INVERTER

- Wide range of air distribution
- Fresh air intake function
- Low noise and low-energy consumption DC fan
- Total pipe length of 65 m
- Remote ON / OFF signal and alarm
- Twin function (2x1)
- Setting and checking parameters using remote control RG57
- Wireless remote control RG57 included
- Wall-mounted remote control with week schedule and "Follow me" function that monitors until 16 units at the same time KJR-120G (2 wires cable) (optional)
- Centralized controller CCM (optional)



KJR-120G (Optional)  
(code: CL94907)



RG57



DC Inverter  
DC outdoor fan motor  
DC indoor fan motor  
30% increased efficiency



Convenient  
Comfortabl



Efficiency  
Ecologic



### Automatic restart

Recovery of the adjustments before the electrical cut.



### Temperature compensation

The new remote control allows adjusting compensation temperature for the heating mode.



### Different speeds of the external fan

Accurate adjustment of fan speed thanks to DC fan motor.



### 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.



### Twin function (2x1)

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.



### Timer function

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



### Trouble shooting

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



### Wide working temperature range

Cooling operation until 50 °C and in heating until -15 °C.



### Horizontal and vertical blade swing

Better air distribution thanks to the automatic blade swing, horizontal and vertical.



### Remote signal (CP)

The indoor unit has an ON/OFF input and an alarm output.



### Cold air protection

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



### Turbo operation

Maximum cooling/heating time reduction.



### Cooling under low temperatures

Cooling operation up to -15°C outdoor.



### 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 (models MUCR-H6, MUCSR-H6, MUSTR-H6, MUPR-H6, MUPR-H6M and all MVD) (optional).

# DATA SHEET

MANUALS, CATALOGUES AND DATA SHEETS: ON OUR WEBSITE

## SPECIFICATIONS

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 labelling		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	kW	4.9	5.8	8.2	10.5
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labelling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignh	kW	5.2	5.6	8.6	10.5
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labelling		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	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, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	
Inner power cable		mm²	2x 1.5+T	2x 1.5+T	2x 1.5+T	2x 1.5+T	
Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
Dimensions (Width x Height x Depth)		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 / ASM135D23UF	GMCC / ATF235D22UM	GMCC / ATF235D22UM	GMCC / ATF310D43UM	
	Power supply	V-Hz-Ph	220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	
	Outdoor power cable	mm²	2x 2.5+T	2x 2.5+T	2x4+T	2x4+T	
	Dimensions (Width x Height x Depth)	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	
	Communication cable	mm²	2 x 0.75 (shielded)	2 x 0.75 (shielded)	2 x 0.75 (shielded)	2 x 0.75 (shielded)	
Whole set	Refrigerant	Type	R410A	R410A	R410A	R410A	
		Load	Kg	1.78	1.95	2.8	3.2
		Preloading 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")	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. slope	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.

## SPECIFICATIONS

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)	
	Pdesignc	kW	12.1	14.0	14.0	16.0	
	SEER	W/W	6.1	6.1	6.1	6.1	
	Energy labelling		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	Pdesignh	kW	11.0	11.8	11.8	12.0
		SCOP	W/W	4.0	4.0	4.0	4.0
		Energy labelling		A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15
	Warm climate zone	Pdesignh	kW	11.1	11.8	11.6	12.2
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy labelling		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, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	
Inner power cable		mm²	2x 1.5+T	2x 1.5+T	2x 1.5+T	2x 1.5+T	
Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	
Dimensions (Width x Height x Depth)		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 / ATF310D43UM	GMCC / ATQ420D1UM	GMCC / ATQ420D1UM	GMCC / ATQ420D1UM	
	Power supply	V-Hz-Ph	220-240V~50Hz, 1F	220-240V~50Hz, 1F	380-415V~50Hz, 3F	380-415V~50Hz, 3F	
	Outdoor power cable	mm²	2x6+T	2x6+T	4x 2.5+T	4x 2.5+T	
	Dimensions (Width x Height x Depth)	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)	2 x 0.75 (shielded)	2 x 0.75 (shielded)	2 x 0.75 (shielded)
Refrigerant		Type		R410A	R410A	R410A	R410A
		Load	Kg	3.65	4	4	4.3
		Preloading 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")	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	65	65	65	65
		Max. slope	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:**

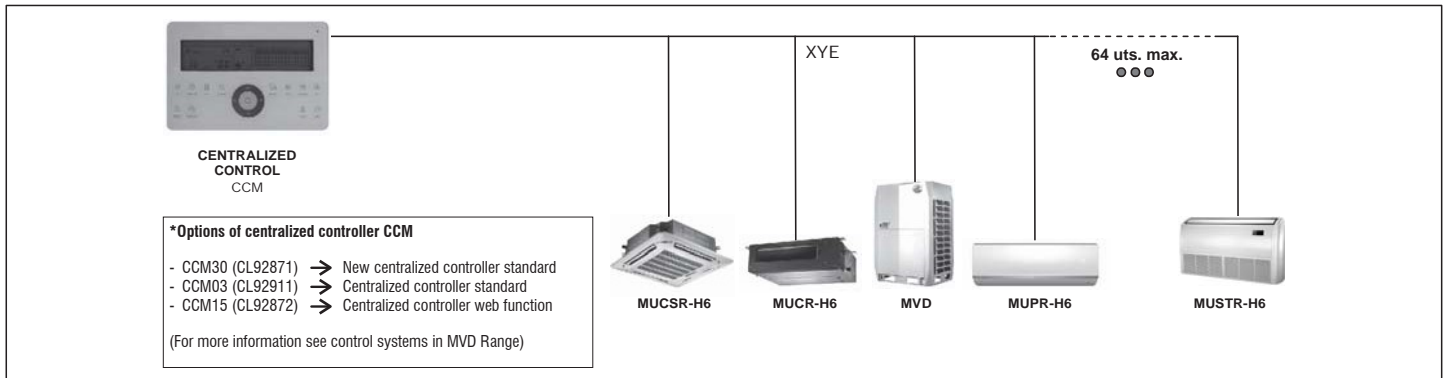
(1\*) Inner diameter

(2\*) Pipes minimum length of 2 m

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

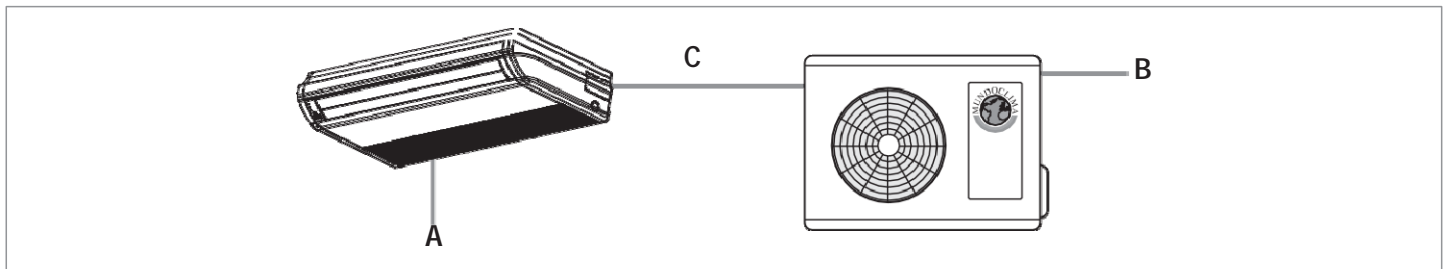
The values of noise level match with values obtained in the anechoic chamber.

## CENTRALIZED CONTROLLER CONNECTION



## ELECTRICAL WIRING

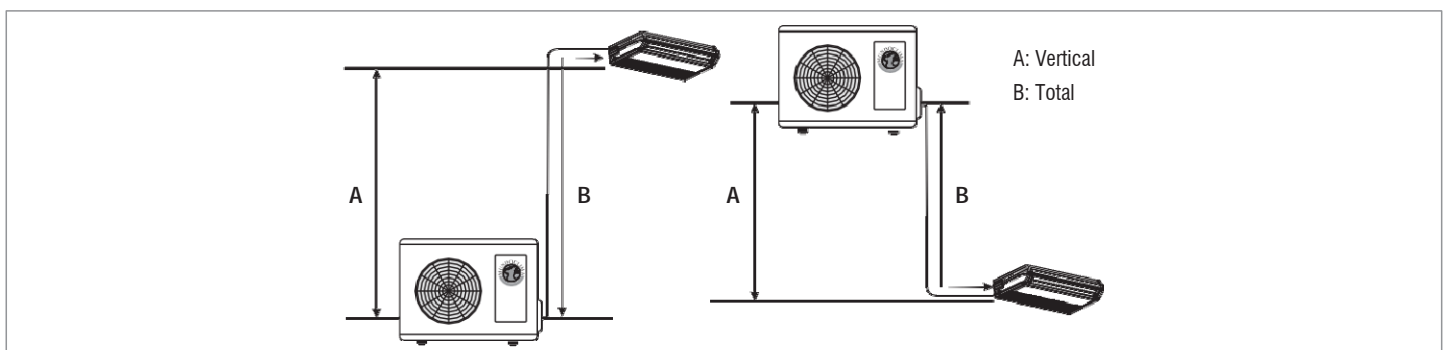
Model	Power supply				Interconnect on C
	Unit	Phases	Indoor A	Outdoor B	
MUSTR-18-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x2.5	2x0.75 (Shielded)
MUSTR-24-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x2.5	2x0.75 (Shielded)
MUSTR-30-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x4	2x0.75 (Shielded)
MUSTR-36-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x4	2x0.75 (Shielded)
MUSTR-42-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x6	2x0.75 (Shielded)
MUSTR-48-H6	IND / OUT	1Ph / 1Ph	3x1,5	3x6	2x0.75 (Shielded)
MUSTR-48-H6T	IND / OUT	1Ph / 3Ph	3x1,5	5x2.5	2x0.75 (Shielded)
MUSTR-60-H6T	IND / OUT	1Ph / 3Ph	3x1,5	5x2.5	2x0.75 (Shielded)



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

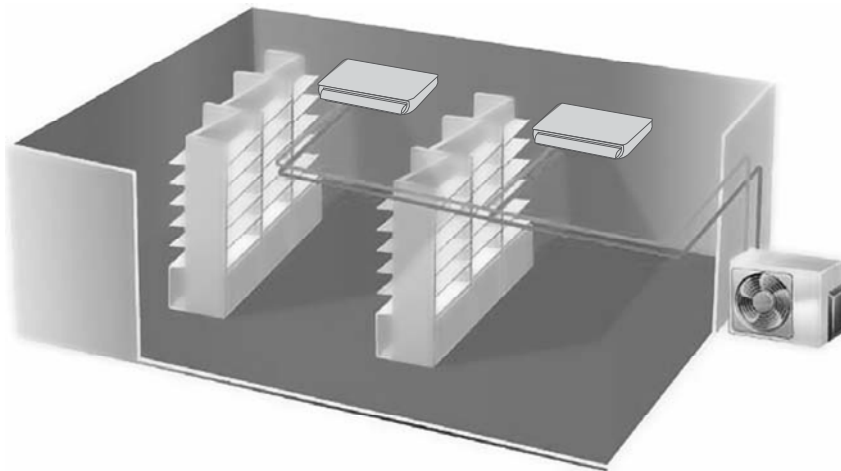
## CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

Model	Pipe		Max. distance		Additional load (g/m)	Preloading until (m)
	Gas	Liquid	A	B		
MUSTR-12-H6	3/8"	1/4"	10	25	15	5
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



## TWIN SYSTEM CEILING-FLOOR (2x1)

**MUNDCLIMA®**  
**SUPER DC INVERTER**



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

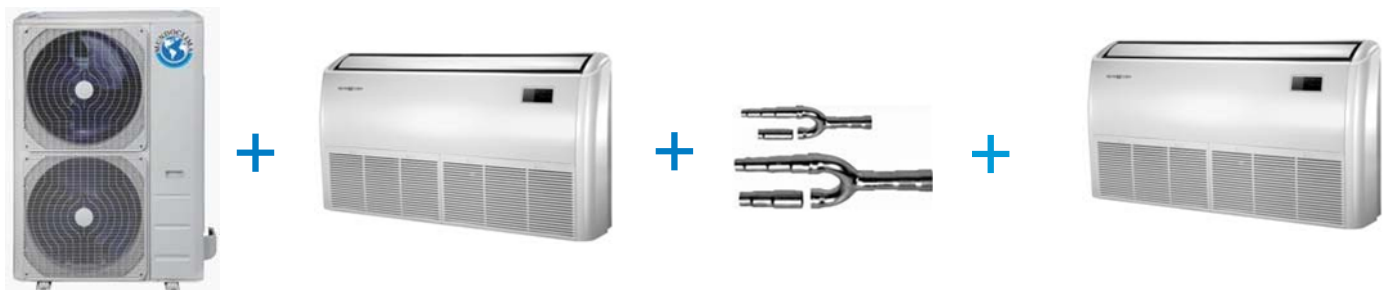
Model			MUSTR-18X2-H6	MUSTR-24X2-H6	MUSTR-24X2-H6T	MUSTR-30X2-H6T
Code			CL 20 932	CL 20 933	CL 20 934	CL 20 935
Total capacity	Cooling / Heating	kW	10,55 / 11,13	14,07 / 16,41	14,07 / 16,41	15,82 / 18,17
Indoor Units	Model		MUSTR-18-H6	MUSTR-24-H6	MUSTR-24-H6	MUSTR-30-H6
	Code		UI20241	UI20242	UI20242	UI20243
	Amount		2	2	2	2
	Individual capacity (Cool.) / Heating	kW	5,28 / 5,67	7,03 / 8,20	7,03 / 8,20	7,91 / 9,08
	Power supply		220-240V~ 50Hz, 1F	220-240V~ 50Hz, 1F	220-240V~ 50Hz, 1F	220-240V~ 50Hz, 1F
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, 1F	220-240V~ 50Hz, 1F	380-415V~ 50Hz, 3F	380-415V~ 50Hz, 3F
Branch Pipe	Model		FQZHN-01D	FQZHN-01D	FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611	TF03611	TF03611
	Amount		1	1	1	1
Connection pipes	Unit Outdoor until Branch Pipe (Liq. /Gas)	inch.	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Unit Indoor until Branch Pipe (Liq. /Gas)	inch.	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Communication cable (1*)		mm <sup>2</sup>	2 x 0.75 (shielded)	2 x 0.75 (shielded)	2 x 0.75 (shielded)	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