

20 SPLIT CASSETTE TYPE MUCSR-H6

MUNDCLIMA®
SUPER DC INVERTER

- Design 360°
- Models 12 and 18 with compact size
- Drain pump with easy access
- Fresh air intake function
- Ducted outlet for exhaust air in adjacent room
- 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 control with week schedule and "Follow Me" function KJR-120C (optional)
- Centralized controller CCM (optional)



SCOP
4.0



KJR-120C (Optional)
(code: CL 94 384)



RG57

3D

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

2C

Convenient
Comfortable

2E

Efficiency
Ecologic



Automatic restart

Recovery of the adjustments before the electrical cut.



Temperature compensation

The new remote control allows to adjust 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.



Independent blade control

Via wall control KJR-120C (optional), you can adjust the angle of the blades independently (except for MUCSR-12/18-H6 models)



Timer function

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



Troubleshooting

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



Wide working temperature range

Cooling operation up to 50°C and heating operation up to -15°C.



Design 360°

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



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 outdoor low temperatures

Operation in cooling with an outdoor temperature up to -15° C.



Blade position memory function

The horizontal blade will automatically move to reach previous position it had the last time the unit was on.



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, MUPR-H6 and all MVD models) (optional).

SPECIFICATIONS

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)
	Pdesignnc		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 labelling			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	Pdesignnh	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 labelling			A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7	-7
	Warm climate zone	Tol	°C	-15	-15	-15	-15	-15
		Pdesignnh	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 labelling			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
	Drain 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	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph
	Inner power cable		mm²	—	2x2,5+T	2x2,5+T	2x2,5+T	2x2,5+T
	Wireless remote control			RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE
	Dimensions	Unit (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 / ATF235D22UM	GMCC / ATF235D22UM	GMCC / ATF310D43UM
	Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	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)	2x0.75 (shielded)	2x0.75 (shielded)	2x0.75 (shielded)
	Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
		Load	Kg	1.38	1.78	1.95	2.8	3.2
		Preloading 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. slope	m	10	20	25	25	30
	Operation temperature	Indoor (Cool. / Heat.)	°C	17 ~ 32/0~ 30				
Outdoor (Cool. / Heat.)		°C	-15~50 / -15~24					

Notes: (1) Pump height measured from the unit shaft. The elbow is set 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.

DATA SHEET

MANUALS, CATALOGUES AND DATA SHEETS: ON OUR WEBSITE

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 labelling		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)	5735 (1,760~7320)
	Intermediate climate zone	Pdesignh	kW	11.0	11.5	11.5
		SCOP	W/W	4.0	4.0	4.0
		Energy labelling		A+	A+	A+
		Tbiv	°C	-7	-7	-7
		Tol	°C	-15	-15	-15
	Warm climate zone	Pdesignh	kW	11.1	11.8	11.6
		SCOP	W/W	5.1	5.1	5.1
		Energy labelling		A++	A++	A++
		Tbiv	°C	2	2	2
		Tol	°C	-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
	Drain 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	220-240V~50Hz, 1Ph	220-240V~50Hz, 1Ph	220-240V~50Hz, 1Ph
	Inner power cable	mm²	2x2,5+T	2x2,5+T	2x2,5+T	2x2,5+T
	Wireless remote control		RG57B2/BGE	RG57B2/BGE	RG57B2/BGE	RG57B2/BGE
	Dimensions	Unit (W x H x D)	mm	840x287x840	840x287x840	840x287x840
		Panel (W x H x D)	mm	950x55x950	950x55x950	950x55x950
	Weight	Unit	kg	26.1	28	31
		Panel	kg	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 / ATF310D43UM	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU	GMCC / ATQ420D1UMU
	Power supply	V-Hz-Ph	220-240V~50Hz, 1Ph	220-240V~50Hz, 1Ph	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 (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	2x0.75 (shielded)	2x0.75 (shielded)	2x0.75 (shielded)	2x0.75 (shielded)
	Refrigerant	Type	R410A	R410A	R410A	R410A
		Load	Kg	4	4	4.3
		Preloading until	m	5	5	5
		Additional load (from 5 m)	g/m	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. slope	m	30		
	Operation temperature	Indoor (Cool. / Heat.)	°C	17 ~ 32/0 ~ 30		
		Outdoor (Cool. / Heat.)	°C	-15 ~ 50 / -15 ~ 24		

Notes: (1) Pump height measured from the unit shaft. The elbow is set horizontally at 200 mm maximum.

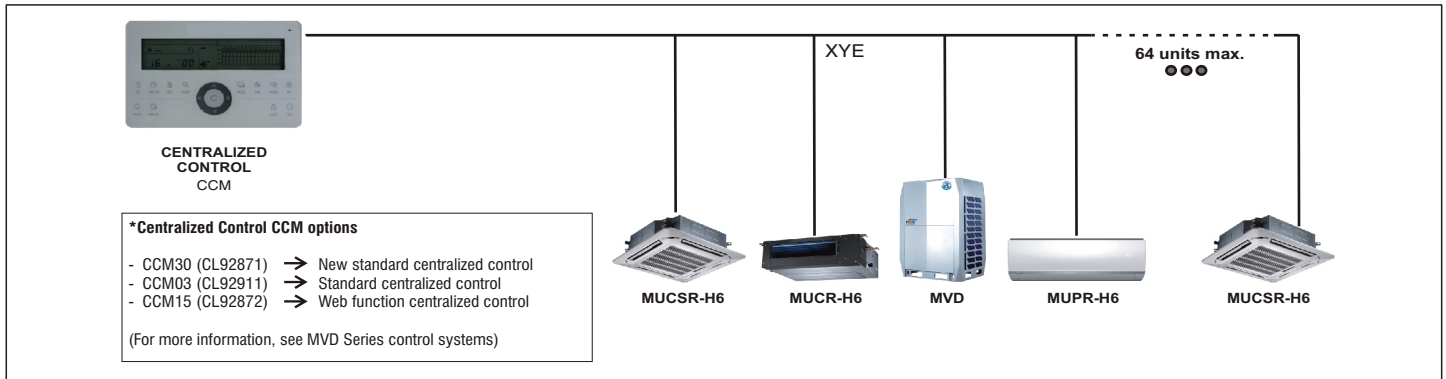
(2) Inner diameter

(3) Pipes minimum length of 2 m

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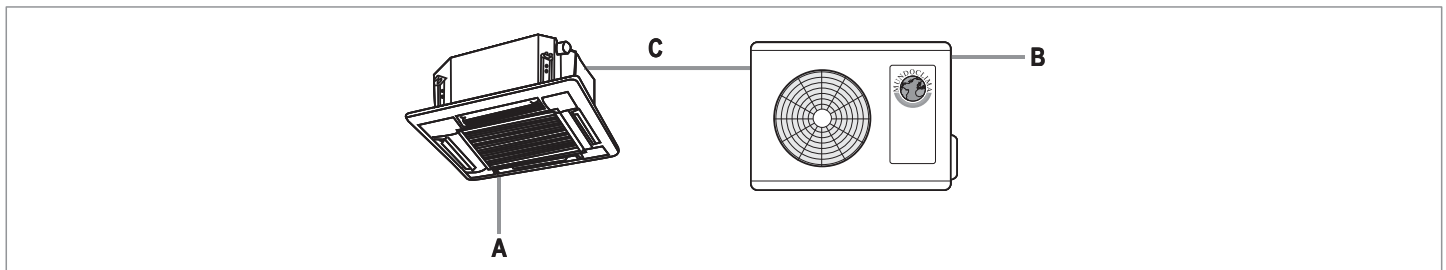
** The values of noise level match with values obtained in the anechoic chamber.

CENTRALIZED CONTROLLER CONNECTION



ELECTRICAL WIRING

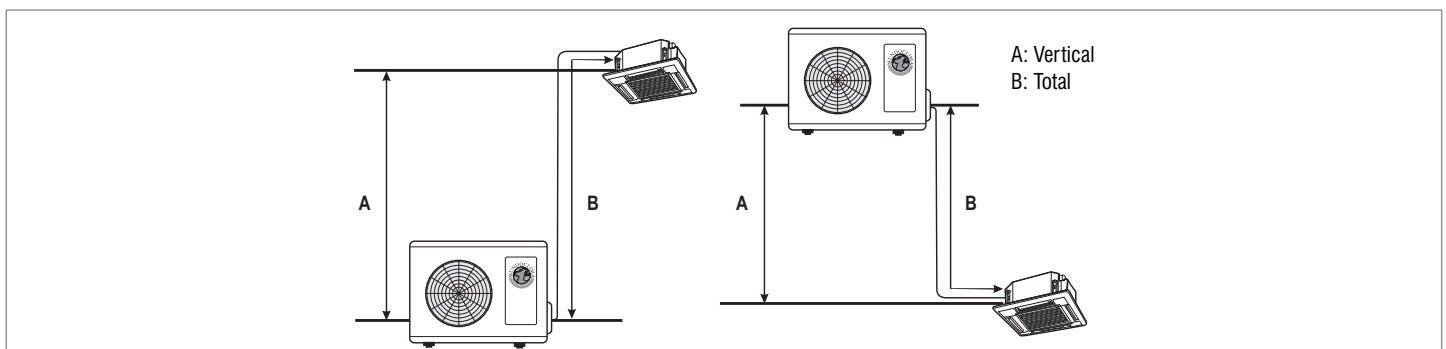
Model	Unit	Power supply			Communication C
		Phases	Indoor A	Outdoor B	
MUCSR-12-H6	OUT	1Ph	-	3x2.5	4x1.5
MUCSR-18-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x2.5	2x0.75 (Shielded)
MUCSR-24-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x2.5	2x0.75 (Shielded)
MUCSR-30-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x4	2x0.75 (Shielded)
MUCSR-36-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x4	2x0.75 (Shielded)
MUCSR-42-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x6	2x0.75 (Shielded)
MUCSR-48-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x6	2x0.75 (Shielded)
MUCSR-48-H6T	IND / OUT	1Ph/ 3Ph	3x1.5	5x2.5	2x0.75 (Shielded)
MUCSR-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.

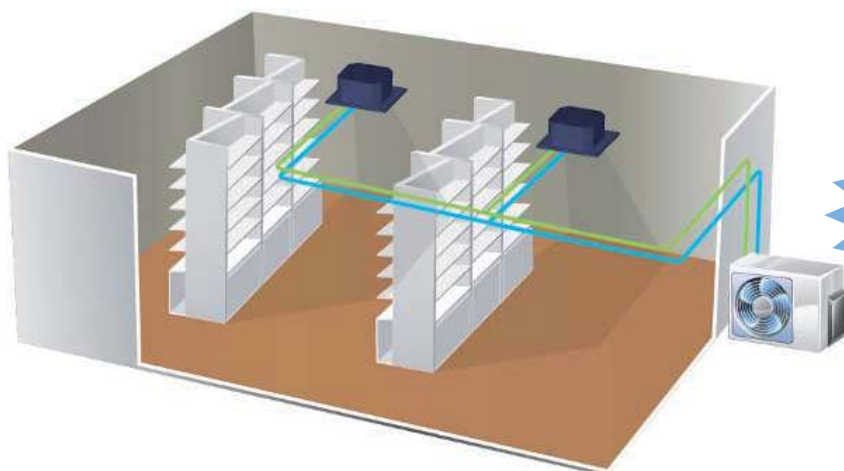
CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

Model	Pipe		Max. distance		Additional load (g/m)	Preloading until (m)
	Gas	Liquid	A	B		
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



TWIN SYSTEM CASSETTE (2x1)

MUNDCLIMA®
SUPER DC INVERTER



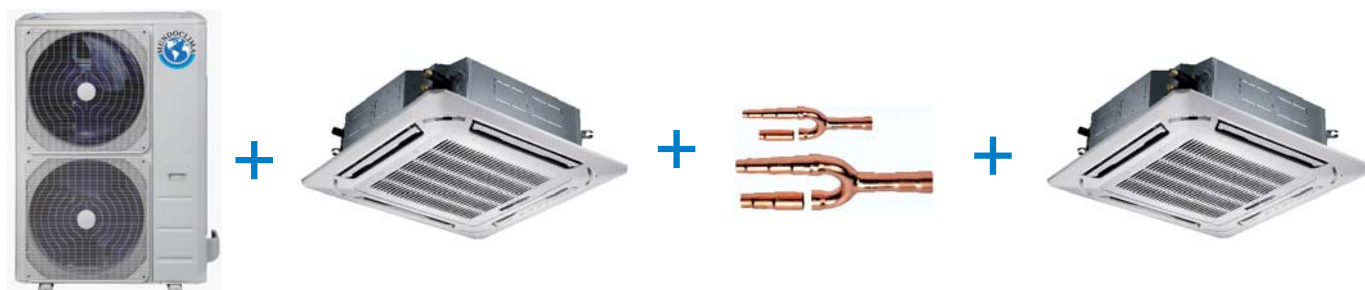
SYSTEM 2x1, enables connection of 2 INDOOR UNITS of identical capacity to a SINGLE OUTDOOR UNIT

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
Indoor units	Model		MUCSR-18-H6	MUCSR-24-H6	MUCSR-24-H6	MUCSR-30-H6
	Code	Body	UI 20 231	UI 20 232	UI 20 232	UI 20 233
		Panel	UA 20 231	UA 20 232	UA 20 232	UA 20 232
	Amount		2	2	2	2
	Individual capacity	kW	5.28 / 5.57	6.89 / 7.76	6.89 / 7.76	8.06 / 9.08
Power supply			220-240V - 50Hz, 1Ph	220-240V - 50Hz, 1Ph	220-240V - 50Hz, 1Ph	220-240V - 50Hz, 1Ph
Outdoor unit	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
Distributor	Model		FQZHN-01D	FQZHN-01D	FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611	TF03611	TF03611
	Amount		1	1	1	1
Connection pipes	Out. Unit to distributor (Liq./Gas)	inch	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
	Out. Unit to distributor (Liq./Gas)	inch.	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Communication cable ⁽¹⁾		mm²	2x0.75 (shielded)	2x0.75 (shielded)	2x0.75 (shielded)	2x0.75 (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.



Twin systems Cassette (2x1) includes:

- Outdoor unit (axial)
- Cassette indoor units with identical capacity
- 1 distributor FQZHN-01D