

20 DUCT TYPE SPLIT MUCR-H6



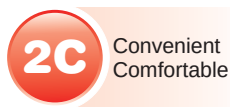
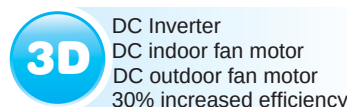
- Low silhouette duct
- Rear (by default) or bottom air intake
- Drain pump with easy access
- Fresh air intake function
- Low noise and low-energy consumption DC fan
- Total pipe length of 65 m
- Remote ON / OFF signal and alarm
- Twin function (2x1)
- Adjustment of static pressure and other parameters using the PCB or the wireless remote control RG57 (optional)
- Wired controller with weekly schedule and "Follow me" function that can control up to 16 units together KJR-120G (2-wire) included
- Wireless remote control RG 57 (optional)
- Centralized controller CCM (optional)



KJR-120G



RG57 (Optional)
(code: CL 94 774)



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.



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.



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



Configurable air intake

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.



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

Operation in cooling up to -15°C outdoor.



Follow Me Function

The wall-mounted wire control adds a temperature sensor.



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 and all MVD models) (optional).

SPECIFICATIONS

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)
	Pdesignnc		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 labelling			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	Pdesignnh	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 labelling		A+	A+	A+	A+	A+
		Tbiv	°C	-7	-7	-7	-7	-7
		Tol	°C	-15	-15	-15	-15	-15
	Warm climate zone	Pdesignnh	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 labelling		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	Nominal	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
	Drain pump height (2*)		mm	750	750	750	750	750
	Fresh air intake (3*)		mm	Ø90	Ø90	Ø90	Ø125	Ø125
	Power supply		V-Hz-F	—	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
	Wall-mounted wire control			KJR-120G	KJR-120G	KJR-120G	KJR-120G	KJR-120G
	Dimensions (Width x Height x Depth)		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 / ATF235D22UM	GMCC / ATF235D22UM	GMCC/ATF310D4 3 UMT
	Power supply		V-Hz-F	220-240V~50Hz, 1F				
	Exterior power cable		mm²	2x 2.5+T	2x 2.5+T	2x 2.5+T	2x4+T	2x4+T
	Dimensions (Width x Height x Depth)		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	2 x 0.75 (shielded)			
Whole set	Refrigerant 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		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. slope	m	10	20	25	25	30
	Operation temperature	Indoor (Cool. / Heat.)	°C	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30	17~32 / 0~30
		Outdoor (Cool. / Heat.)	°C	-15~50 / -	-15~50 / -	-15~50 / -	-15~50 / -	-15~50 / -

Notes: (1*) Configurable pressure via Micro-switch ENC2 on the indoor PCB
 (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

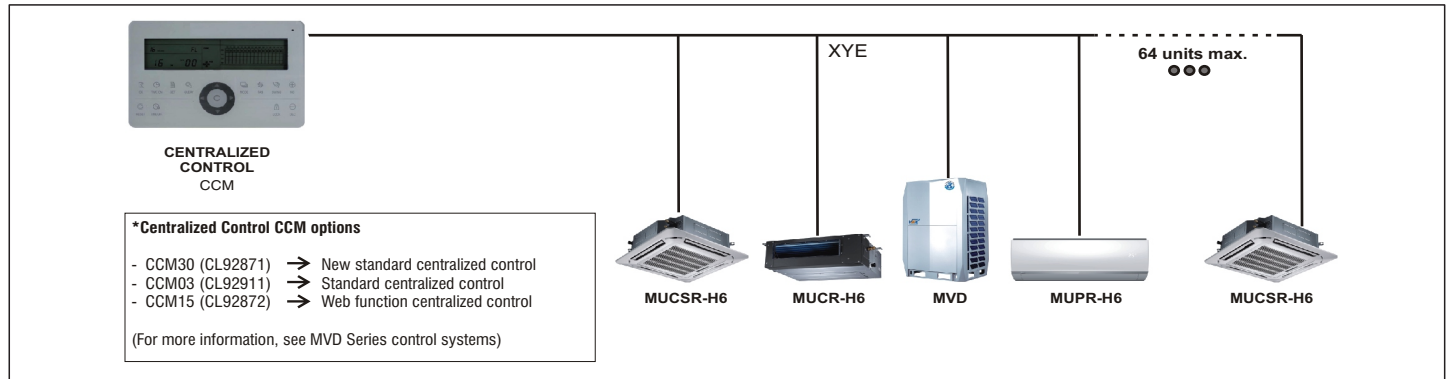
** The above design and specifications are subject to change of product improvement without prior notice.

SPECIFICATIONS

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)
	Pdesignc	kW	12.1	14.0	14.0	16.0
	SEER	W/W	5.6	6.1	6.1	6.1
	Energy labelling		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	Pdesignh	kW	11.0	12.2	12.2
		SCOP	W/W	4.0	4.0	4.0
		Energy labelling		A+	A+	A+
		Tbiv	°C	-7	-7	-7
	Warm climate zone	Tol	°C	-15	-15	-15
		Pdesignh	kW	11.6	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	2200/1900/1600	2200/1900/1600	2200/1900/1600
	Static pressure	Nominal	Pa	50	50	50
		Configurable (1*)	Pa	0 ~ 100	0 ~ 100	0 ~ 100
	Sound pressure (High / Medium / Low)		dB(A)	50 / 47 / 44	51 / 48 / 45	50 / 47 / 44
	Sound power (High)		dB(A)	68	68	68
	Drain connection		mm	Ø25	Ø25	Ø25
	Drain pump height (2*)		mm	750	750	750
	Fresh air intake (3*)		mm	Ø125	Ø125	Ø125
	Power supply		V-Hz-F	220-240V~50Hz, 1F		
	Inner power cable		mm²	2x 1.5+T	2x 1.5+T	2x 1.5+T
	Wall-mounted wire control			KJR-120G	KJR-120G	KJR-120G
	Dimensions (Width x Height x Depth)		mm	1200 x 300 x 865	1200 x 300 x 865	1200 x 300 x 865
	Weight		kg	43.4	43.2	43.1
Outdoor unit	Air flow (High)		m³/h	4,300	6,800	6,800
	Sound pressure (High)		dB(A)	62.5	65	65
	Sound power (High)		dB(A)	71	72	72
	Compressor (Brand / Model)			GMCC / ATF310D43UM	GMCC / ATQ420D1UM	GMCC / ATQ420D1UM
	Power supply		V-Hz-F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	380-415V~50Hz, 3F
	Exterior power cable		mm²	2x6+T	2x6+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
	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
		Preloading until	m	5	5	5
		Additional load (from 5 m)	g/m	30	30	30
	Design pressure		Mpa	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")	Ø9.52 / Ø15.9 (3/8" / 5/8")	Ø9.52 / Ø15.9 (3/8" / 5/8")
		Max. Length (4*)	m	65	65	65
		Max. slope	m	30	30	30
	Operation temperature	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

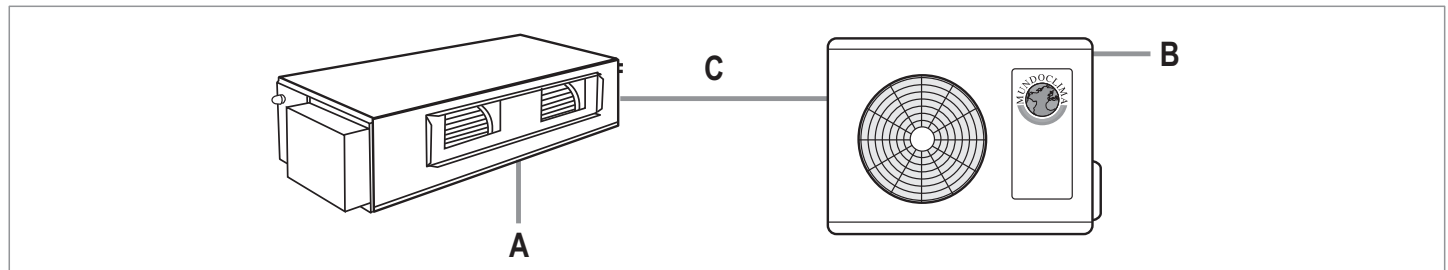
Notes: (1*) Configurable pressure via Micro-switch ENC2 on the indoor PCB
 (2*) Pump height measured from the unit shaft. The elbow is set horizontally at 200 mm maximum.
 (3*) Inner diameter
 (4*) Pipes minimum length of 2 m
 ** The above design and specifications are subject to change of product improvement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

CENTRALIZED CONTROLLER CONNECTION



ELECTRICAL WIRING

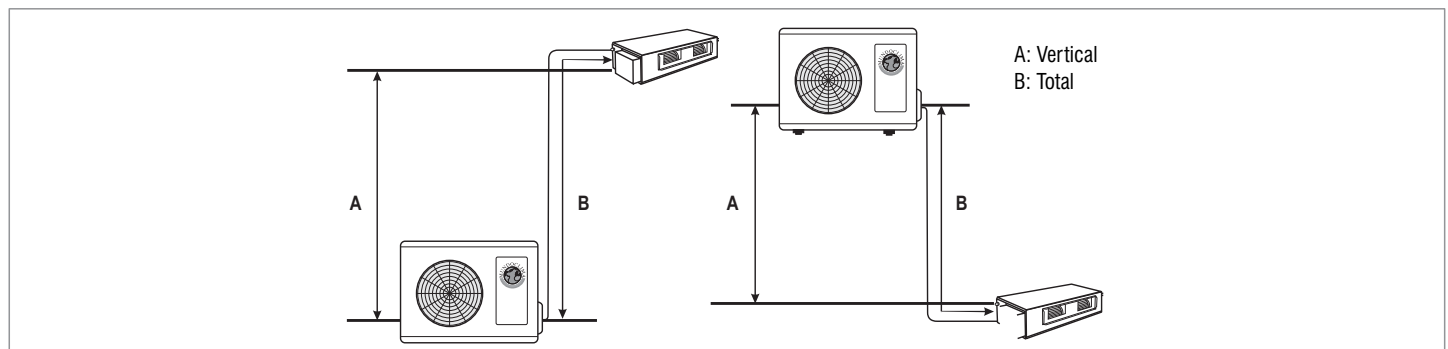
Model	Power supply				Communication C
	Unit	Phases	Indoor A	Outdoor B	
MUCR-12-H6	OUT	1Ph	-	3x2.5	4x1.5
MUCR-18-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x2.5	2x0.75 (Shielded)
MUCR-24-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x2.5	2x0.75 (Shielded)
MUCR-30-H6	IND / OUT	1Ph / 1Ph	3x1.5	3x4	2x0.75 (Shielded)
MUCR-36-H6	IND /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

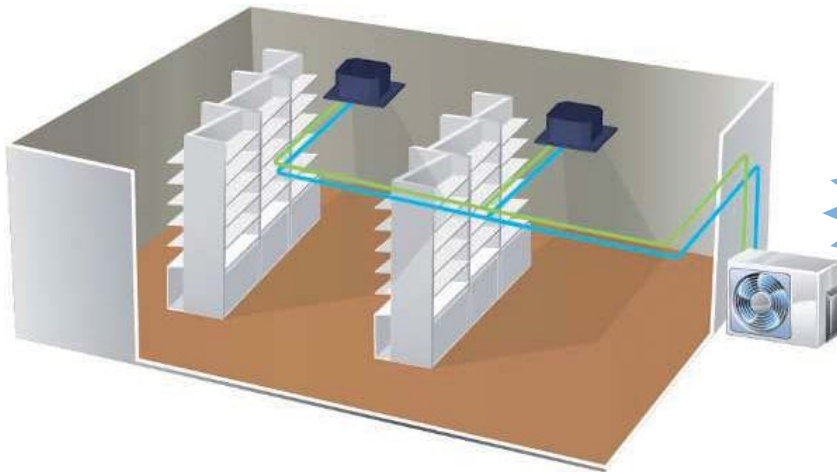
CONNECTION PIPES AND ADDITIONAL REFRIGERANT LOAD

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



TWIN SYSTEM DUCT (2x1)

MUNDCLIMA®
SUPER DC INVERTER



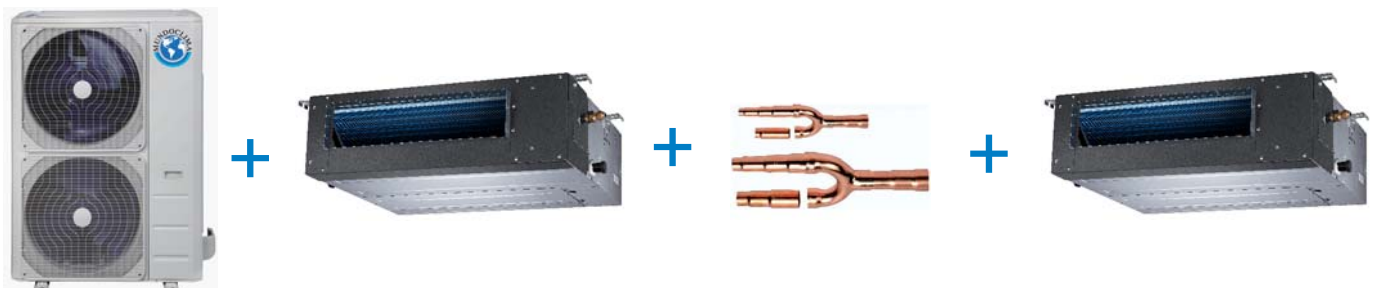
SYSTEM 2x1, enables connection of 2 INDOOR UNITS of identical capacity to a SINGLE OUTDOOR UNIT

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
Indoor units	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 (Cool.) / Heat.)	kW	5.28 / 5.57	7.03 / 8.06	7.03 / 8.06	7.91 / 9.08
	Power supply		220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F	220-240V~50Hz, 1F
Outdoor Unit	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, 1F	220-240V~50Hz, 1F	380-415V~50Hz, 3F	380-415V~50Hz, 3F
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"
	Ind. 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	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.



Twin systems Duct (2x1) includes:

- 1 outdoor unit (axial)
- 2 duct indoor units with identical capacity
- 1 distributor FQZHN-01D