

SPLIT CASSETTE TYPE MUCSR-H9 Series

R32



Models: 12 and 18



RG57B2/BGE
Included
(CL 94 982)



12 to 36 Models



12 to 36 Models



48 to 60 Models

NEW!



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



Drainage pump
It incorporates drainage pump to facilitate the drainage of the indoor unit.



Compact size panel
(only models 12 and 18)
The trim panel of the cassette type equipment is 600 × 600 mm.



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



Outdoor air inlet
Possibility of providing outside air directly on the indoor unit.



Pipe compatibility
Possibility of increasing a size over the standard diameter in the gas pipe.



LED digital display
(except models 12 and 18)
Equipment with a digital display showing the setpoint temperature during normal operation or room temperature in ventilation mode.



Refrigerant leak detection
The unit automatically detects the existence of possible leaks of refrigerant in the circuit.



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



Setpoint temperatures range adjustment
The new remote control allows adjusting: Minimum cooling from 17 °C up to 24 °C; Maximum heating from 30 °C up to 25 °C.



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



Remote signals (CP)
The indoor unit has an ON/OFF input and an alarm and operation output.



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.



Wide working temperature range
Cooling operation until 50 °C and in heating up to -15°C.



Trouble shooting
Error codes are shown in the indoor panel, wall control or outdoor PCB.



Quieter outdoor unit
Optimized design of air outlet grille with noise reduction.



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.



Cooling under low temperatures
Operation in cooling up to -15°C outdoor temp.



Different speeds of the external fan
Accurate adjustment of fan speed thanks to DC motor.



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



R32
Unit that uses more environmentally friendly refrigerant: R32.



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



Centralized control CCM
Possibility to control several units from only one remote control. The remote control can directly control up to 64 units of different systems (optional).



Wifi
Possibility that the unit is controlled via WIFI, through a module and its own mobile Apps (optional).

H9 SPLIT CASSETTE TYPE



SPECIFICATIONS

Model			MUCSR-12-H9	MUCSR-18-H9	MUCSR-24-H9	MUCSR-30-H9	
Code			CL20500	CL20501	CL20502	CL20503	
Cooling	Nominal capacity (min. - max.)	kW	3.51 (1.52 ~ 5.28)	5.27 (2.90 ~ 5.74)	7.03 (1.20 ~ 8.21)	8.79 (2.08 ~ 10.55)	
	Nominal consumption (min. - max.)	kW	0.85 (0.35 ~ 1.60)	1.63 (0.72 ~ 1.86)	2.19 (0.48 ~ 2.85)	2.77 (0.69 ~ 4.06)	
	Pdesignc	kW	3.5	5.3	7.0	8.9	
	SEER	W/W	7.8	6.1	6.1	6.5	
	Energy labeling		A++	A++	A++	A++	
	Seasonal energy efficiency for space cooling	ηs,c(%)	—	—	—	—	
	Annual electricity consumption	kWh/year	157	304	402	479	
Heating	Nominal capacity (min. - max.)	kW	4.10 (1.03 ~ 5.57)	5.42 (2.37 ~ 6.10)	7.62 (2.43 ~ 8.65)	9.67 (2.08 ~ 10.52)	
	Nominal consumption (min. - max.)	kW	1.10 (0.31 ~ 1.80)	1.46 (0.70 ~ 1.93)	2.05 (0.50 ~ 2.88)	2.38 (0.69 ~ 3.76)	
	Intermediate climate zone	Pdesignh	kW	3.1	4.2	5.4	8.1
		SCOP	W/W	4.6	4.0	4.0	3.8
		Energy labeling		A++	A+	A+	A
		Seasonal energy efficiency for space heating	ηs,h(%)	—	—	—	—
		Annual electricity consumption	kWh/year	959	1470	1890	2653
		Tbiv	°C	-7	-7	-7	-7
	Warm climate zone	Tol	°C	-15	-15	-15	-15
		Pdesignh	kW	3.5	5.3	5.8	6.9
		SCOP	W/W	5.1	4.9	4.9	5.3
		Energy labeling		A+++	A++	A++	A+++
		Annual electricity consumption	kWh/year	961	1525	1657	1823
		Tbiv	°C	2	2	2	2
	Indoor unit	Air flow rate (High / Medium / Low)	m³/h	617 / 504 / 416	720 / 625 / 540	1,378 / 1,200 / 1,032	1,775 / 1,620 / 1,438
Sound pressure (High / Medium / Low)		dB(A)	41 / 36 / 33	42.5 / 39 / 35.5	47 / 43 / 40	51 / 49 / 46	
Sound power (High)		dB(A)	51	56	59	62	
Drain connection		mm	Ø25	Ø25	Ø32	Ø32	
Drain pump height (1*)		mm	750	750	750	750	
Fresh air intake (2*)		mm	Ø65	Ø65	Ø75	Ø75	
Power supply		V-Hz-Ph	--	--	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	
Max. intensity		A	--	--	1.0	1.4	
Max. consumption		kW	--	--	0.10	0.17	
Inner power cable		mm²	--	--	2 x 1.5 + T	2 x 1.5 + T	
Dimensions		Unit body (Width x Height x Depth)	mm	570 x 260 x 570	570 x 260 x 570	840 x 245 x 840	840 x 245 x 840
		Panel (Width x Height x Depth)	mm	647 x 50 x 647	647 x 50 x 647	950 x 55 x 950	950 x 55 x 950
Weight		Unit	kg	16.2	16.2	24.1	27.5
	Panel	kg	2.5	2.5	5.3	5.3	
Outdoor unit	Air flow (High)	m³/h	2,000	2,000	2,700	3,600	
	Sound pressure (High)	dB(A)	55.5	55	62	58.5	
	Sound power (High)	dB(A)	63	63	64	69	
	Compressor (Brand / Model)		GMCC / KTN110D42UFZ	GMCC / KSN140D21UFZ	GMCC / KTF235D22UMT	GMCC / KTM240D57UMT	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	
	Max. intensity	A	10	13.5	13.5	17	
	Max. consumption	kW	2.35	2.95	2.95	3.60	
	Outdoor power cable	mm²	2 x 2.5 + T	2 x 2.5 + T	2 x 2.5 + T	2 x 4 + 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	
	Weight	kg	34.7	33.7	49.4	56.9	
	Whole set	Communication cable	mm²	4 x 1.5	4 x 1.5	2 x 0.75 (shielded)	2 x 0.75 (shielded)
Refrigerant		Type / PCA		R32 / 675	R32 / 675	R32 / 675	R32 / 675
		Load	kg / TCO _{eq}	0.87 / 0.587	1.15 / 0.776	1.5 / 1.013	2.0 / 1.350
		Preload until	m	5	5	5	5
		Additional load (from 5 m)	g/m	12	12	24	24
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")
		Max. Length (3*)	m	25	30	50	50
		Max. Drop Height	m	10	20	25	25
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*) Pump height measured from the unit shaft. The elbow is set horizontally at 200 mm maximum.

(2) Inner diameter.

(3) Pipes minimum length of 3 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.

H9 SPLIT CASSETTE TYPE



SPECIFICATIONS

Model		MUCSR-36-H9	MUCSR-48-H9T	MUCSR-60-H9T		
Code		CL20504	CL20507	CL20508		
Cooling	Nominal capacity (min. - max.)	kW	10.55 (2.93 ~ 12.02)	14.06 (4.75 ~ 14.58)	15.52 (5.28 ~ 16.71)	
	Nominal consumption (min. - max.)	kW	3.75 (0.89 ~ 5.60)	5.13 (1.17 ~ 5.60)	5.95 (1.14 ~ 6.68)	
	Pdesignc	kW	10.5	14.0	15.7	
	SEER	W/W	6.1	6.1	6.1	
	Energy labeling		A++	A++	A++	
	Seasonal energy efficiency for space cooling	ηs,c(%)	—	241	241	
	Annual electricity consumption	kWh/year	605	805	901	
Heating	Nominal capacity (min. - max.)	kW	11.13 (2.94 ~ 13.48)	16.11 (3.93 ~ 16.77)	18.16 (4.40 ~ 19.34)	
	Nominal consumption (min. - max.)	kW	2.99 (0.72 ~ 4.45)	5.05 (0.98 ~ 5.37)	6.03 (1.02 ~ 6.44)	
	Intermediate climate zone	Pdesignh	kW	8.8	11.2	11.9
		SCOP	W/W	4.0	4.0	4.0
		Energy labeling		A+	A+	A+
		Seasonal energy efficiency for space heating	ηs,h(%)	—	157	157
		Annual electricity consumption	kWh/year	3108	3920	4165
	Warm climate zone	Tbiv	°C	-7	-7	-10
		Tol	°C	-15	-15	-15
		Pdesignh	kW	10.5	12.5	12.5
		SCOP	W/W	4.9	5.1	5.1
	Warm climate zone	Energy labeling		A++	A+++	A+++
		Annual electricity consumption	kWh/year	3000	3431	3431
	Warm climate zone	Tbiv	°C	2	2	2
Indoor unit	Air flow rate (High / Medium / Low)	m³/h	1,775 / 1,620 / 1,438	1,715 / 1,568 / 1,381	1,970 / 1,737 / 1,537	
	Sound pressure (High / Medium / Low)	dB(A)	51 / 49 / 46	52 / 50 / 49	53 / 50.5 / 48	
	Sound power (High)	dB(A)	61	65	65	
	Drain connection	mm	Ø32	Ø32	Ø32	
	Drain pump height (1*)	mm	750	750	750	
	Fresh air intake (2*)	mm	Ø75	Ø75	Ø75	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	
	Max. intensity	A	1.4	1.6	1.8	
	Max. consumption	kW	0.17	0.20	0.22	
	Inner power cable	mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
	Dimensions	Unit body (Width x Height x Depth)	mm	840 x 245 x 840	840 x 287 x 840	840 x 287 x 840
		Panel (Width x Height x Depth)	mm	950 x 55 x 950	950 x 55 x 950	950 x 55 x 950
	Weight	Unit	kg	27.5	28.7	29.7
Panel		kg	5.3	5.3	5.3	
Outdoor unit	Air flow (High)	m³/h	4,000	7,500	7,500	
	Sound pressure (High)	dB(A)	65	66	66	
	Sound power (High)	dB(A)	66	72	73	
	Compressor (Brand / Model)		GMCC / KTF310D43UMT	GMCC / KTQ420D1UMU	GMCC / KTQ420D1UMU	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph	380-415V~ 50Hz, 3Ph	380-415V~ 50Hz, 3Ph	
	Max. intensity	A	21.5	11.2	14	
	Max. consumption	kW	4.70	6.20	7.50	
	Outdoor power cable	mm²	2 x 4 + T	4 x 2.5 + T	4 x 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	66.8	106.7	111.3	
Whole set	Communication cable	mm²	2 x 0.75 (shielded)	2 x 0.75 (shielded)	2 x 0.75 (shielded)	
	Refrigerant	Type / PCA		R32 / 675	R32 / 675	R32 / 675
		Load	kg / TCO ₂ eq	2.4 / 1.620	2.8 / 1.890	2.95 / 1.991
		Preload until	m	5	5	5
		Additional load (from 5 m)	g/m	24	24	24
	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 (3*)	m	65	65	65
		Max. Drop Height	m	30	30	30
	Operation temperature	Indoor (Cooling / Heating)	°C	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

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 3 m.

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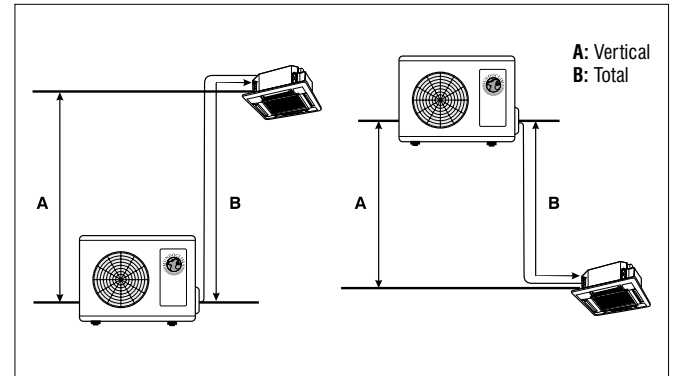
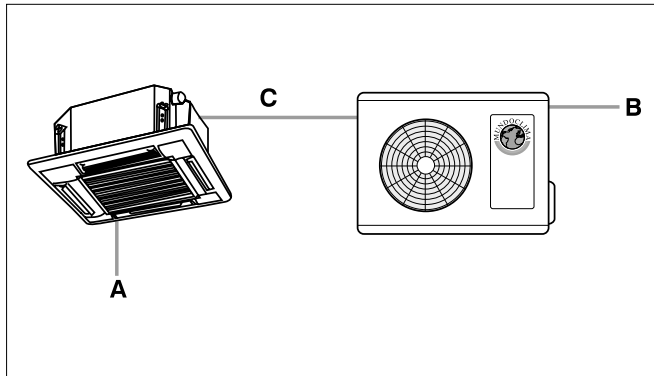
H9 SPLIT CASSETTE TYPE

ELECTRICAL WIRING

Model	Power supply				Interconnection C
	Unit	Phases	Indoor A	Outdoor B	
MUCSR-12-H9	OUTDOOR	SINGLE	-	3 x 2.5	4x1,5
MUCSR-18-H9	OUTDOOR	SINGLE	-	3 x 2.5	
MUCSR-24-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 2.5	2 x 0.75 (Shielded)
MUCSR-30-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 4	
MUCSR-36-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 4	
MUCSR-48-H9T	IND/OUTD	SINGLE/THREE	3x1,5	5 x 2.5	
MUCSR-60-H9T	IND/OUTD	SINGLE/THREE	3x1,5	5 x 2.5	

CONNECTION PIPES AND ADDITIONAL LOAD (R-32)

Model	Pipe		Max. distance		Additional Load (g/m)	Preload up to (m)
	Gas	Liquid	A	B		
MUCSR-12-H9	3/8"	1/4"	10	25	12	5
MUCSR-18-H9	1/2"	1/4"	20	30	12	5
MUCSR-24-H9	5/8"	3/8"	25	50	24	5
MUCSR-30-H9	5/8"	3/8"	25	50	24	5
MUCSR-36-H9	5/8"	3/8"	30	65	24	5
MUCSR-48-H9T	5/8"	3/8"	30	65	24	5
MUCSR-60-H9T	5/8"	3/8"	30	65	24	5



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

OPTIONALS

Wireless control



RG57A6/BGE
(CL 94 588)



KJR-120G/TF-E⁽¹⁾
(CL 94 907)



KJR-120C/TF-E
(CL 97 291)



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



KJR-86C-E
(CL 92 870)



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

Integral control



IMM4
(CL 97 160-163)



CCM08/E
(CL 92 915)



LONGW64/E
(CL 92 877)



CCM18A/N
(CL 94 791)



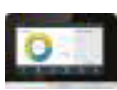
MD-AC-MBS-1
(CL 99 097/
CL 99 114-116)



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

BMS

Centralized controller



CCM180A/BWS
(CL 97 800)



CCM270A/WSCCM30/BKE
(CL 97 801)



CCM30/BKE
(CL 92 871)



CCM15
(CL 92 872)



K-380EW
(CO 14 907)



MUNDOCLIMA
WF-60A1
(CL 97 480)

WIFI



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



JC-02
(CL 94 724)

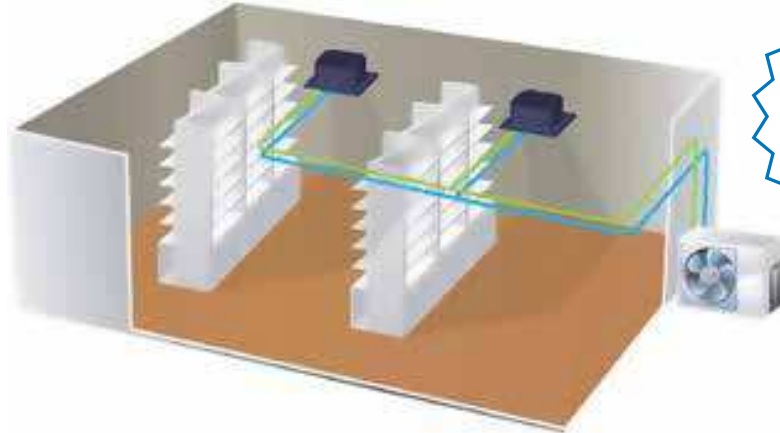
Accessories

⁽¹⁾ Necessary to acquire the adapter plate (CL 97 290)

H9 SPLIT CASSETTE TYPE



Twin Cassette System (2x1)



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

Model			MUCSR-24X2-H9T	MUCSR-30X2-H9T
Code			CL 20 993	CL 20 994
Total capacity	Cooling / Heating	kW	14.07 / 16.12	15.20 / 18.17
Pcs. Indoor uts.	Model		MUCSR-24-H9	MUCSR-30-H9
	Code		UI20502	UI20503
	Amount		2	2
	Individual capacity (Cooling / Heating)	kW	7.03 / 7.62	8.79 / 9.08
	Power supply		220-240V~ 50Hz, 1Ph	
Unit Exterior	Model		MUCSR-48-H9T	MUCSR-60-H9T
	Code		UE20507	UE20508
	Amount		1	1
	Power supply		380-415V~ 50Hz, 3Ph	
Branch Pipe	Model		FQZHN-01D	FQZHN-01D
	Code		TF03611	TF03611
	Amount		1	1
Connection pipes	Unit Out. Unit to distributor (Liq./Gas)	inch	3/8" - 5/8"	3/8" - 5/8"
	Unit Ind. Unit to distributor (Liq./Gas)	inch	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 must be configured as Master and Slave, the configuration must be done with the remote control RG57

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

Twin systems Cassette (2x1) includes: - 1 Outdoor unit (axial).

- 1 Outdoor unit (axial)
- 2 duct indoor units with identical capacity duct.
- 1 branch pipe FQZHN-01D.

