

## CEILING-FLOOR SPLIT TYPE MUSTR-H9 Series

**R32**

**NEW!**



RG57B2/BGE  
Included  
(CL 94 982)



18 to 36 Models



48 to 60 Models



### Horizontal and vertical blade swing

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



### 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.



### 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 showed 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).

## SPLIT TYPE CEILING-FLOOR H9



### SPECIFICATIONS

Model			MUSTR-18-H9	MUSTR-24-H9	MUSTR-30-H9		
Code			CL20511	CL20512	CL20513		
Cooling	Nominal capacity (min. - max.)		kW	5.27 (2.71 ~ 5.56)	7.03 (3.22 ~ 8.29)	8.79 (2.08 ~ 10.55)	
	Nominal consumption (min. - max.)		kW	1.63 (0.67 ~ 1.85)	2.19 (0.48 ~ 2.93)	2.96 (0.69 ~ 4.06)	
	Pdesignc		kW	5.3	7.0	8.8	
	SEER		W/W	6.1	6.1	7.0	
	Energy labeling			A++	A++	A++	
	Seasonal energy efficiency for space cooling		ηs,c(%)	--	--	--	
	Annual electricity consumption		kWh/year	304	402	440	
Heating	Nominal capacity (min. - max.)		kW	5.56 (2.41 ~ 6.30)	7.62 (2.72 ~ 8.65)	9.82 (2.08 ~ 10.84)	
	Nominal consumption (min. - max.)		kW	1.50 (0.54 ~ 1.64)	2.05 (0.50 ~ 2.85)	2.48 (0.69 ~ 3.87)	
	Intermediate climate zone	Pdesignh		kW	4.1	5.4	7.3
		SCOP		W/W	4.0	4.0	3.8
		Energy labeling			A+	A+	A
		Seasonal energy efficiency for space heating		ηs,h(%)	--	--	--
		Annual electricity consumption		kWh/year	1435	1890	2689
		Tbiv		°C	-7	-7	-7
	Warm climate zone	Tol		°C	-15	-15	-15
		Pdesignh		kW	5.0	4.9	--
		SCOP		W/W	5.1	5.0	--
		Energy labeling			A+++	A++	--
		Annual electricity consumption		kWh/year	1373	1372	--
		Tbiv		°C	2	2	--
	Indoor unit	Air flow rate (High / Medium / Low)		m³/h	880 / 760 / 650	1,208 / 1,066 / 853	2,160 / 1,844 / 1,431
Sound pressure (High / Medium / Low)		dB(A)	41.5 / 38.5 / 34.5	50 / 46 / 41	51 / 47 / 42		
Sound power (High)		dB(A)	58	61	62		
Drain connection		mm	Ø25	Ø25	Ø25		
Fresh air intake (1*)		mm	Ø120	Ø120	Ø120		
Power supply		V-Hz-Ph	--	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph		
Max. intensity		A	--	1.2	1.5		
Max. consumption		kW	--	0.12	0.18		
Inner power cable		mm²	--	2 x 1.5 + T	2 x 1.5 + T		
Dimensions (Width x Height x Depth)		mm	1,068 x 235 x 675	1,068 x 235 x 675	1,650 x 235 x 675		
Weight		kg	28	26.8	39		
Outdoor unit	Air flow (High)		m³/h	2,000	2,700	3,600	
	Sound pressure (High)		dB(A)	55	62	58.5	
	Sound power (High)		dB(A)	64	65	69	
	Compressor (Brand / Model)			GMCC / KSN140D21UFZ	GMCC / KTF235D22UMT	GMCC / KTM240D57UMT	
	Power supply		V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	
	Max. intensity		A	13.5	13.5	16.5	
	Max. consumption		kW	2.95	2.95	3.60	
	Outdoor power cable		mm²	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	845 x 702 x 363	946 x 810 x 410	
	Weight		kg	33.7	49.4	56.9	
Whole set	Communication cable		mm²	4 x 1.5	2 x 0.75 (shielded)	2 x 0.75 (shielded)	
	Refrigerant	Type / PCA			R32 / 675	R32 / 675	R32 / 675
		Load		kg / TCO <sub>2eq</sub>	1.15 / 0.776	1.5 / 1.013	2.0 / 1.350
		Preload until		m	5	5	5
		Additional load (from 5 m)		g/m	12	24	24
	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")
		Max. Length (2*)		m	30	50	50
		Max. Drop Height		m	20	25	25
	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) Inner diameter.

(2\*) Pipe 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.

## SPLIT TYPE CEILING-FLOOR H9



### SPECIFICATIONS

Model			MUSTR-36-H9	MUSTR-48-H9T	MUSTR-60-H9T	
Code			CL20514	CL20517	CL20518	
Cooling	Nominal capacity (min. - max.)	kW	10.54 (3.93 ~ 12.02)	14.07 (4.96 ~ 15.11)	15.82 (5.28 ~ 17.00)	
	Nominal consumption (min. - max.)	kW	3.80 (0.87 ~ 4.50)	5.50 (1.15 ~ 6.00)	6.06 (1.22 ~ 6.49)	
	Pdesignc	kW	10.5	14.0	15.9	
	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	602	803	916		
Heating	Nominal capacity (min. - max.)	kW	11.13 (2.81 ~ 13.48)	16.11 (3.81 ~ 18.07)	18.17 (4.40 ~ 19.64)	
	Nominal consumption (min. - max.)	kW	3.04 (0.73 ~ 4.55)	5.05 (1.2 ~ 6.20)	6.03 (1.02 ~ 6.54)	
	Intermediate climate zone	Pdesignh	kW	8.7	11.5	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	3045	4025	4165
		Tbiv	°C	-7	-7	-10
	Warm climate zone	Tol	°C	-15	-15	-15
		Pdesignh	kW	10.7	12.5	12.6
		SCOP	W/W	4.9	4.8	5.1
		Energy labeling		A++	A++	A+++
		Annual electricity consumption	kWh/year	2057	3546	3478
		Tbiv	°C	2	2	2
Indoor unit	Air flow rate (High / Medium / Low)	m³/h	2,160 / 1,844 / 1,431	2,329 / 1,930 / 1,417	2,454 / 1,834 / 1,426	
	Sound pressure (High / Medium / Low)	dB(A)	51 / 47 / 42	54 / 50 / 46	54 / 47 / 42	
	Sound power (High)	dB(A)	61	66	69	
	Drain connection	mm	Ø25	Ø25	Ø25	
	Fresh air intake (1*)	mm	Ø120	Ø120	Ø120	
	Power supply	V-Hz-Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	220-240V~ 50Hz, 1Ph	
	Max. intensity	A	1.5	1.7	1.9	
	Max. consumption	kW	0.18	0.22	0.24	
	Inner power cable	mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 1.5 + T	
	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	
	Weight	kg	39	41.2	41.4	
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)	67	72	74	
	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 <sub>2</sub> 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 (2*)	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) Inner diameter.

(2) 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.

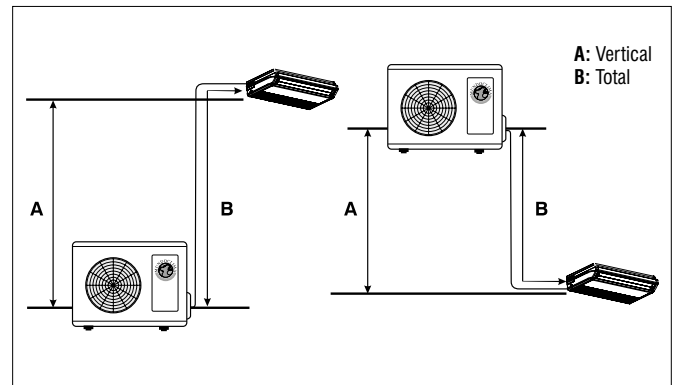
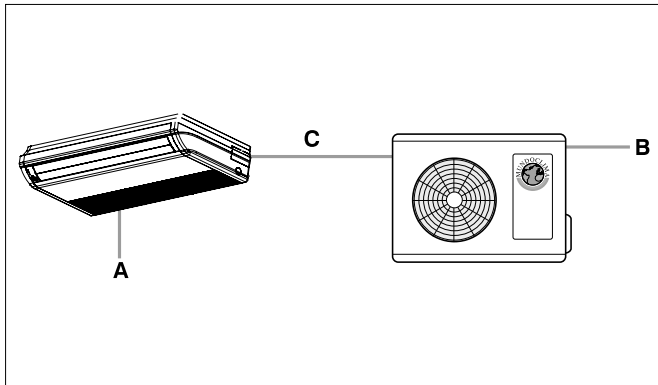
## SPLIT TYPE CEILING-FLOOR H9

### ELECTRICAL WIRING

Model	Power supply				Interconnection C
	Unit	Phases	Indoor A	Outdoor B	
MUSTR-18-H9	OUTDOOR	SINGLE	—	3 x 2.5	4x1,5
MUSTR-24-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 2.5	2 x 0.75 (Shielded)
MUSTR-30-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 4	
MUSTR-36-H9	IND/OUTD	SINGLE/SINGLE	3x1,5	3 x 4	
MUSTR-48-H9T	IND/OUTD	SINGLE/THREE	3x1,5	5 x 2.5	
MUSTR-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		
MUSTR-18-H9	1/2"	1/4"	20	30	12	5
MUSTR-24-H9	5/8"	3/8"	25	50	24	5
MUSTR-30-H9	5/8"	3/8"	25	50	24	5
MUSTR-36-H9	5/8"	3/8"	30	65	24	5
MUSTR-48-H9T	5/8"	3/8"	30	65	24	5
MUSTR-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

More information of the optionals in "MUNDOCLIMA CONTROL SYSTEMS"

#### Wireless control



RG57A6/BGE  
(CL 94 588)



KJR-120G/TF-E  
(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)

#### Wired remote control

#### Integral control



IMM4  
(CL 97 160-163)



CCM08/E  
(CL 92 915)



LONGW64/E  
(CL 92 877)



CCM18A/N  
(CL 94 791)



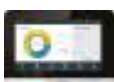
MD-AC-MBS-1  
(CL 99 097/  
CL 99 114-116)



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

#### BMS

#### Centralized controller



CCM180A/BWS  
(CL 97 800)<sup>(1)</sup>



CCM270A/WS  
(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)



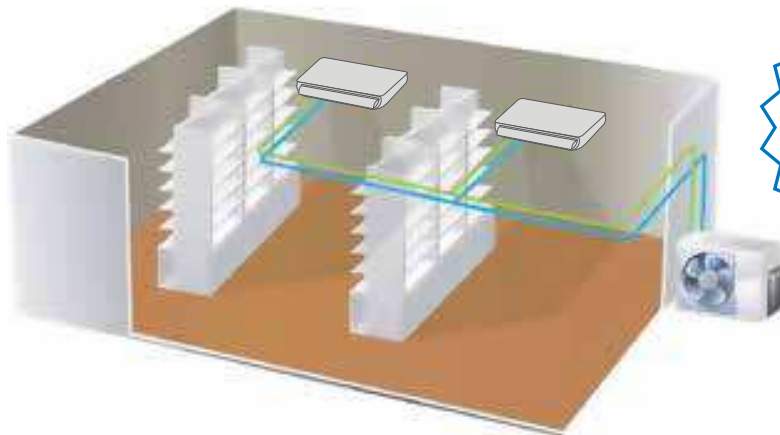
JC-02  
(CL 94 724)

#### Accessories

## SPLIT TYPE CEILING-FLOOR H9



### Floor/Ceiling Twin System (2x1)



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

Model			MUSTR-24X2-H9T	MUSTR-30X2-H9T
Code			CL 20 996	CL 20 997
Total capacity	Cooling / Heating	kW	14.07 / 16.12	15.83 / 18.17
Pcs. Indoor uts.	Model		MUSTR-24-H9	MUSTR-30-H9
	Code		UI20512	UI20513
	Amount		2	2
	Individual capacity (Cooling / Heating)	kW	7.03 / 7.62	8.79 / 9.38
	Power supply		220-240V~ 50Hz, 1Ph	
Unit Exterior	Model		MUSTR-48-H9T	MUSTR-60-H9T
	Code		UE20517	UE20278
	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 <sup>(1)</sup>		mm <sup>2</sup>	2 x 0.75 (shielded)	

Note: <sup>(1)</sup> 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.**

- Ceiling-Floor Twin Systems (2x1) include:**
- 1 Outdoor unit (axial).
  - 1 Outdoor unit (axial)
  - 2 duct indoor units with identical capacity duct.
  - 1 branch pipe FQZHN-01D.



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