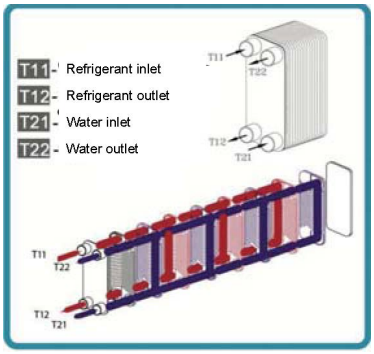
25 INVERTER CHILLER
MUENR-H6 Series

MUNDOCLIMA SUPER DC INVERTER

Compressor and fan motors DC Inverter: All range equipments include compressors and fan motors DC Inverter, in this way the performance for middle frequence system is improved and a more sensitive and effective control is assured.
Hydraulic module: Hydraulic module is fully integrated and equipped with key hydraulic components such as expansion tank, plate type of heat exchanger and water circulating pump.
High efficiency water circulating pump: With the new water circulating pump in compliance with the Ecodesign Directive ERP, power consumption is reduced.

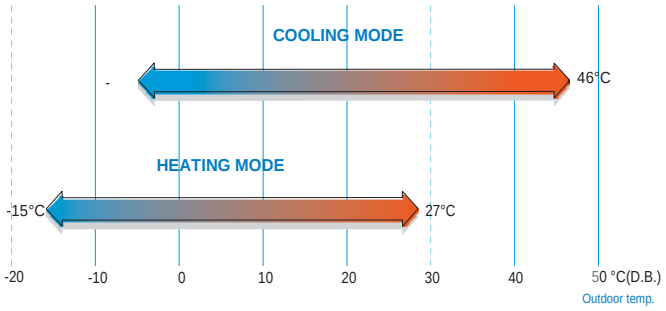
Plate-type heat exchanger: The plate-type heat exchanger is made of AISI 316 stainless steel to ensure high heat exchange efficiency.



Wall-mounted wire control (optional): All range units incorporate a control panel that lets you adjust all operating parameters. It is also possible to get a wall-mounted wire control. This way, you can control the unit from indoors.

KJR-120F1-BMK-E
(code: CL92340)

Wide range of operating temperatures: The MUENR-H6 equipment can operate in extreme temperature conditions, in heating mode up to a temperature of -15 °C and in cooling mode up to 46 °C.

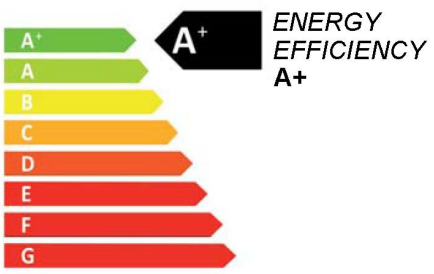


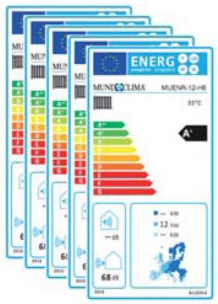
INTEGRATED AND COMPACT DESIGN
Fully integrated and built-in hydraulic module, such as expansion tank, plate type heat exchanger, water circulating pump, etc.
It saves installation space and cost.

REMOTE CONTROL ON/OFF FUNCTION
Possibility of a ON/OFF function in the computer by using a potential free signal.

WATER PUMP STARTS/STOPS COMPULSORY FUNCTION.
Press "Check" button for 3 seconds to start the water pump operating when the unit is in standby. Press "Check" button for 3 seconds again to stop the water pump.

Energy labelling A+: Thanks to the plate heat exchanger, the high efficiency water circulating pump, the compressor and the fan motor DC Inverter, power consumption is reduced and the operation of the unit is optimized. The equipment has an energy efficiency rate of A+ when heating at 35°C.





Model				MUENR-05-H6	MUENR-07-H6	MUENR-10-H6	MUENR-12-H6	MUENR-12-H6T	MUENR-14-H6T	MUENR-16-H6T
Code				CL25620	CL25621	CL25622	CL25623	CL25626	CL25627	CL25628
Power supply			V/F/Hz	220 - 240 / 1N / 50				380 - 415 / 3N / 50		
Cooling	Conditions 1*(1)	Capacity (min. - max.)	kW	5,0 (1,9~5,8)	7,0 (2,1~7,8)	10,0(2,9~10,5)	11,2(3,1~12,0)	11,2(3,1~12,0)	12,5(3,3~14,0)	14,5(3,5~15,5)
		Consumption	kW	1.55	2.25	2.95	3.50	3.38	3.90	4.70
		EER	kW	3.23	3.11	3.39	3.20	3.31	3.20	3.10
	Conditions 2* (2)	Capacity	kW	5.60	8.00	10.60	12.20	12.20	14.20	15.60
		Consumption	kW	1.15	1.85	2.30	2.65	2.60	3.10	3.60
		EER	kW	4.87	4.32	4.24	4.60	4.70	4.58	4.33
		SEER	kW	5.83	6.07	5.71	6.37	6.18	6.69	6.78
Heating	Conditions 3* (3)	Capacity (min. - max.)	kW	6,2 (2,1~7,0)	8,0 (2,3~9,0)	11,0(3,1~12,0)	12,3(3,3~13,2)	12,3(3,3~13,2)	13,8(3,5~15,4)	16,0(3,7~17,0)
		Consumption	kW	1.90	2.50	3.14	3.78	3.72	4.25	4.85
		COP	kW	3.26	3.20	3.50	3.25	3.31	3.25	3.30
	Conditions 4* (4)	Capacity	kW	6.20	8.60	11.50	13.00	13.00	15.10	16.50
		Consumption	kW	1.35	2.10	2.65	2.92	2.85	3.35	3.92
		COP	kW	4.60	4.10	4.34	4.45	4.56	4.51	4.21
		SCOP	kW	3.55	3.46	3.34	3.46	3.66	3.78	3.39
Energy rating at low temperature (35°C / ηs)				A+ / 138.9%	A+ / 135.3%	A+ / 130.7%	A+ / 135.4%	A+ / 143.5%	A+ / 148.3%	A+ / 132.6%
Max. current			A	11.40	13.70	25.00	26.00	8.90	9.6	10.1
Compressor	Model			SNB172FJGMC		ATQ420D1UMU		ATQ420D2UMU		
	Brand			Mitsubishi Electric		GMCC	GMCC	GMCC	GMCC	GMCC
	Refrigerant oil	Type		FV50S	FV50S	VG74	VG74	VG74	VG74	VG74
		Amount	ml	400	400	1,400	1,400	1,400	1,400	1,400
Fan	Type / Motor / Amount			AXIAL / DC / 1	AXIAL / DC / 1	AXIAL / DC / 2	AXIAL / DC / 2	AXIAL / DC / 2	AXIAL / DC / 2	AXIAL / DC / 2
	Air flow rate		m^3/h	5,100	5,100	7,000	7,000	7,000	7,000	7,000
Plate-type heat exchanger	Water flow (min ~ max)		m^3/h	0.86 (0.77 ~ 0.95)	1.24 (1.08 ~ 1.54)	1.72 (1.54 ~ 1.89)	1.92 (1.72 ~ 2.11)	1.92 (1.72 ~ 2.11)	2.15 (1.93 ~ 2.36)	2.49 (2.24 ~ 2.73)
	Water volume		L	0.53	0.53	0.7	0.78	0.78	0.78	1.06
	Lost of final load		Kpa	15	15	18	18	18	18	19
Water pump	Model			RS15/6 RKC	RS15/6 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC	RS25/7.5 RKC
	Maximum flow rate:		m^3/h	3.3	3.3	4	4	4	4	4
	Height		m	5.5	5.5	7.5	7.5	7.5	7.5	7.5
Expansion tank	Water volume		L	2	2	3	3	3	3	3
Max/min water pressure inlet *(5)			Kpa	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500	150 / 500
Sound pressure *(6)			dB(A)	58	58	59	59	62	62	62
Sound power *(6)			dB(A)	63	66	67	68	68	70	72
Dimensions (W x H x D)			mm	990 x 966 x 354		970 x 1327 x 400				
Weight			kg	81	81	110	110	110	111	111
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Amount		kg	2.5	2.5	2.8	2.8	2.8	2.9	3.2
Connection wiring	Power supply		mm^2	2x 2.5+T		2x4+T		4 x 2.5 + T		
Hydraulic connections	Water inlet/outlet		inch	1" / 1"		1-1/4" / 1-1/4"				
Operating temperature range	Cooling		°C	-5 ~ 46						
	Heating		°C	- 15 to 27 (by under 5ºC antifreeze should be added)						
Water outlet temperature range	Cooling		°C	In delivery 4~ 15 *(7)						
	Heating		°C	In delivery 40 ~ 55 *(8)						

Notes:
(1) Conditions 1: Water inlet/outlet temperature: 12 / 7 ºC, outdoor temperature 35ºC DB.
(2) Conditions 2: Water inlet/outlet temperature: 23 / 18 ºC, outdoor temperature 35ºC DB.
(3) Conditions 3: Water inlet/outlet temperature: 40 / 45 °C, outdoor temperature 7°C DB / 6°C WB / 85% HR
(4) Conditions 4: Water inlet/outlet temperature: 30 / 35 °C, outdoor temperature 7°C DB / 6°C WB / 85% HR
(5) Pressure level to which pressure switches are activated
(6) Measured at 1m distance in open field
(7) The machine controls the return temperature, so that the minimum setting temperature is 10°C, the 4°C are in delivery.
(8) The machine controls the return temperature, so that the maximum setting temperature is 50°C, the 55°C are in delivery.