

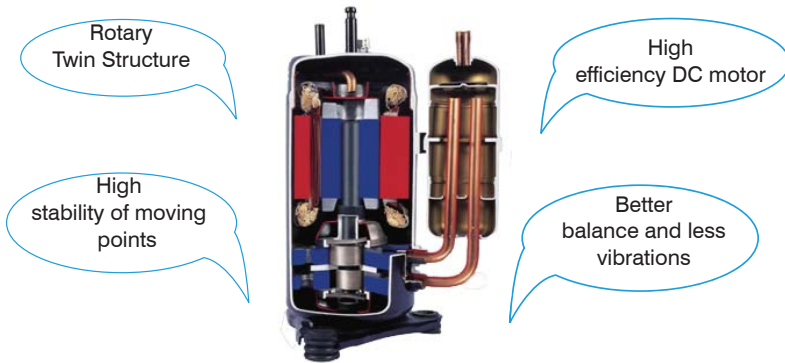
INVERTER WATER CHILLER

MUENR-H7 Series

The new Super DC Inverter modular chillers are available in two versions with and without hydraulic module.

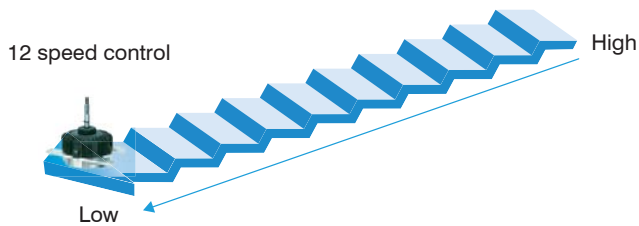
TWIN ROTARY INVERTER COMPRESSOR

Thanks to the DC Inverter Rotary Twin Compressor electricity consumption can be reduced by 25%.



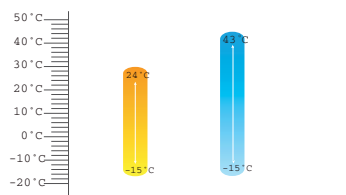
DC FAN MOTORS

The speed of the fan is adjusted according to the pressure of the refrigerant and the required load, thus reducing the electric consumption by 30%.



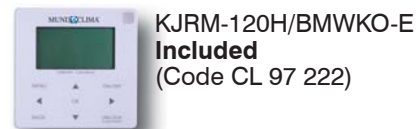
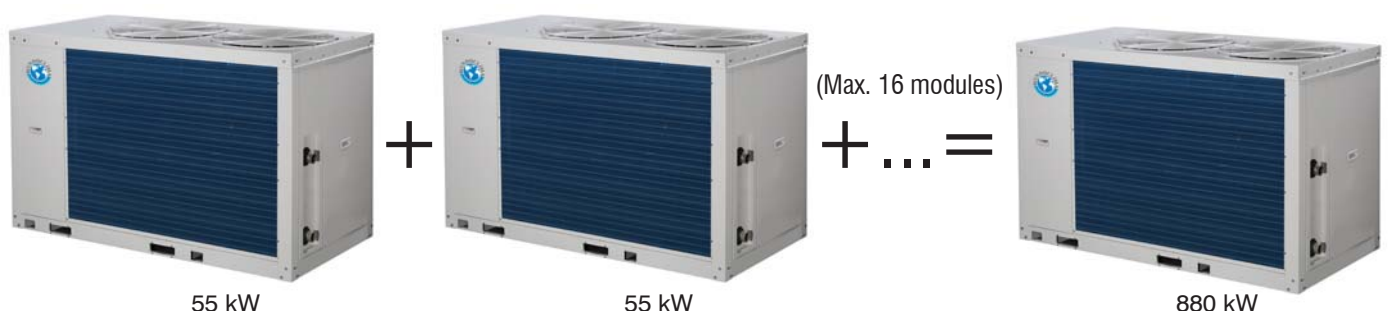
OPERATION UNDER LOW TEMPERATURES

Thanks to control condensation fan, units can operate in both cooling and heating up to -15 °C for outdoor temperature.



MODULAR SYSTEM

Modular design that allows that up to 16 units can operate together, it can form an equipment up to 880 kW (in cooling).



OPTIONAL



KJRM-120H/BMWKO-E (MODBUS)
(Code CL 97 258)
(MODBUS RTU)

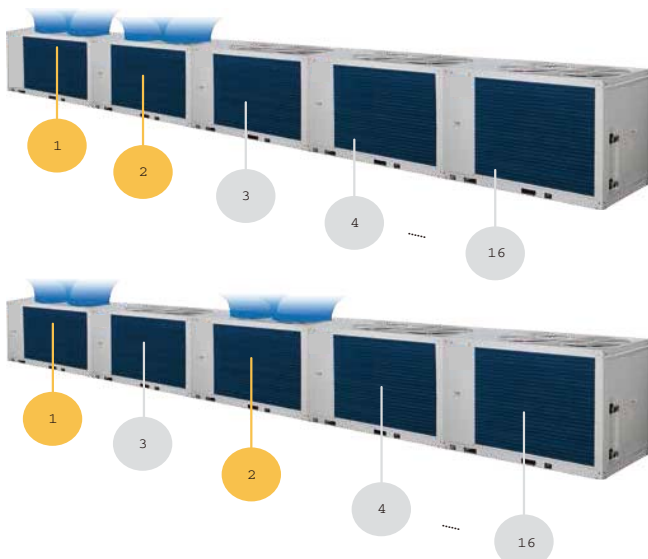
EASY CONNECTION

Easy connection between the master and slave units. All units can be connected via a wired remote control (included with each unit) using a three pole shielded cable.

WATER CHILLERS INVERTER MUENR-H7 SERIES

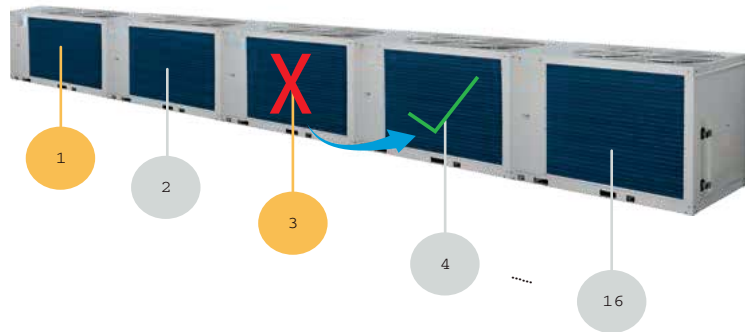
ROTARY FUNCTION

In a modular system, the rotation function allows all slave units to operate for the same amount of hours.



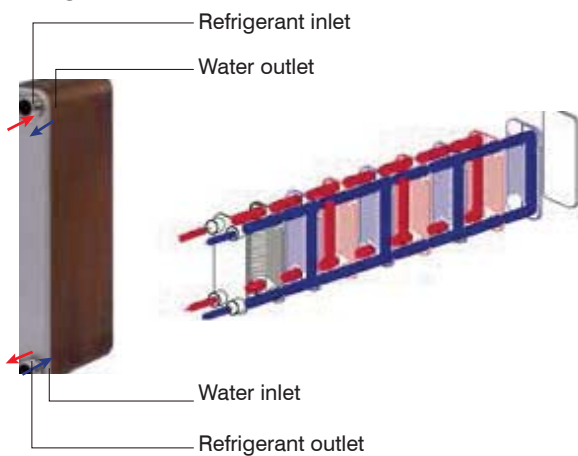
BACKUP FUNCTION

In a modular system, if any of the slave modules fails, the other modules continue to operate normally.



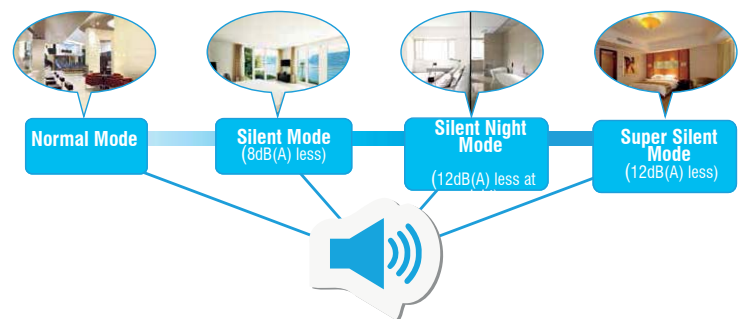
HIGH EFFICIENCY PLATE EXCHANGER

The plate exchanger uses multiple metal plates to achieve high efficiency in the transfer of heat between refrigerant and water.



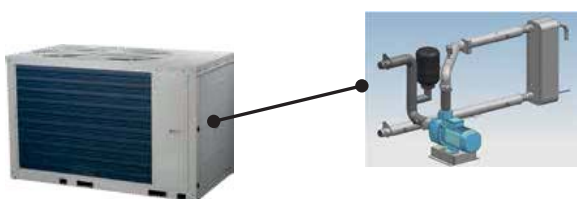
MULTIPLE SILENT MODES

Several silent modes allow the reduction of the sound level during the day and / or night.



HYDRAULIC GROUP INCLUDED (Version K)

The modules of the MUENR-H7T (K) version add a re-circulation pump and an expansion tank.



FLOW SWITCH INCLUDED

All modules (with or without hydraulic group) add a flow switch.



REMOTE SIGNALS

ON / OFF signals, potential-free mode and alarm selection available on each unit's PCB.

TECHNICAL SPECIFICATIONS

Model		MUENR-30-H7T	MUENR-30-H7T(K2)	MUENR-60-H7T	MUENR-60-H7T(K)	
Code		CL 25 630	CL 25 634	CL 25 632	CL 25 633	
Cooling ⁽¹⁾	Capacity	kW	27	27.6	55	
	Power consumption	kW	10.8	11.4	22	23.2
	Current	A	16.7	18.7	33.9	36.9
	EER	W/W	2.50	2.42	2.50	2.37
	SEER ⁽⁷⁾	W/W	4.41	3.93	4.20	3.73
Heating ⁽²⁾	Capacity	kW	31		61	
	Power consumption	kW	10.5	11.2	20.3	21.5
	Current	A	16.2	18.4	31.3	34.3
	COP	W/W	2.95	2.77	3.00	2.84
	SCOP ⁽⁸⁾	W/W	4.01	3.27	3.85	3.45
	Energy labeling ⁽⁸⁾		A++	A+	A++	A+
Max. current		A	18	20	36.8	39.8
Sound pressure ⁽³⁾		dB(A)	65.8	65.8	72.1	72.1
Sound power ⁽³⁾		dB(A)	78	78	84	86
Power supply		Ph, V, Hz	3N-, 400, 50			
Compressor	Brand	Mitsubishi Electric				
	Model	LNB65FAEMC				
	Type	Inverter DC Twin Rotary				
	Amount	1		2		
Fan	Type	DC				
	Amount	1		2		
	Air flow rate	m ³ /h	12,500		24,000	
Water exchanger	Type	Plates				
	Water pressure drop	kPa	60		80	
	Volume	L	2.44		5.17	
	Nominal consumption (Min. - Max.)	m ³ /h	5.0 (3.8 ~ 6.4)		9.8 (8.0 ~ 13.0)	
	Max. design pressure	Mpa	1			
Hydraulic connections	mm (inches)	DN40 (1 1/2") (Internal thread)		DN50 (2") (Type Victaulic)		
Water pump	Model		–	Grundfos CM5-3A	–	Grundfos CM10-2A
	Nominal flow	m ³ /h	–	4.7	–	10
	Nominal pressure	kPa (mca)	–	210 (21.45)	–	280 (28.6)
	Nominal height	m	–	22.8	–	27.1
Expansion tank		L	–	5	–	12
Dimensions (W x H x D)		mm	1870 x 1175 x 1000		2220 x 1325 x 1055	
Weight		kg	300	315	480	515
Refrigerant	Type/GWP	R410A/2088				
	Amount	kg/TCO ₂ eq.	10.5/21.92		17/35.5	
Electrical connections	Power wiring ⁽⁴⁾ / ICP	mm ² /A	4 x 10 + T / 36		4 x 25 + T / 70	
	Communication wiring ⁽⁵⁾	mm ²	3 x 0.75 (shielded)			
Outdoor temperature in operation	Cooling	°C	-15 a 43			
	Heating	°C	-15 a 24			
Outlet Water Temperature	Cooling ⁽⁶⁾	°C	0 ~ 20			
	Heating	°C	25 ~ 55			

⁽¹⁾Nominal conditions cooling: Water temperature 12 °C (Inlet), 7 °C (Outlet), outdoor temperature 35 °C DB. Water flow 0.172 m³/ (h-KW).

⁽²⁾Nominal conditions heating: Water temperature 40 °C (Inlet), 45 °C (Outlet), outdoor temperature 7 °C DB and 6 °C WB. Water flow 0.172 m³/ (h-KW).

⁽³⁾Noise level measured in semi-anechoic chamber at 1 m front distance and 1.1 m height.

⁽⁴⁾Power wiring recommended for L < 20 m, for longer distances it should be calculated.

⁽⁵⁾Remote control wiring and interconnection of several modules.

⁽⁶⁾Below 5 °C, antifreeze must be added to the hydraulic circuit and set to ON the S5-1 (on all modules).

⁽⁷⁾According to (EU) N° 2016/2281.

⁽⁸⁾According to (EU) N° 811/2013.

Caution:

- Do not use groundwater or well water directly.
- The hydraulic circuit must be closed.
- Data and specifications are subject to changes without previous notice.