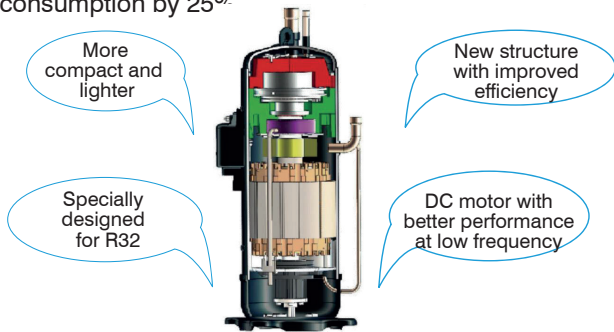


INVERTER MODULAR WATER CHILLERS MUENR-H12 Series

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

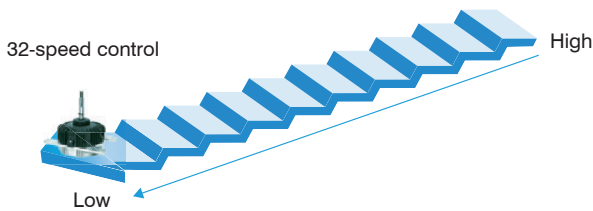
DC INVERTER SCROLL COMPRESSOR WITH EVI TECHNOLOGY

Thanks to the DC Inverter Scroll compressor with vapor injection (EVI), it manages to reduce electricity consumption by 25%.



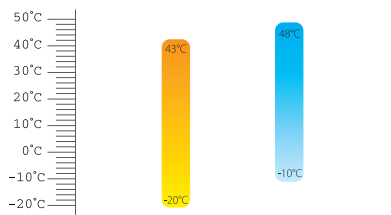
DC FAN MOTORS

The fan speed 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 the EVI compressor, the equipment can work in heating up to -20 °C ambient temperature.



MODULAR SYSTEM

The modular design allows the connection of up to 16 units together, forming a system up to 2080 kW (in cooling mode), except for model 180 that can only connect up to 8 units.



130 kW

+



130 kW

(Max. 16 modules)

+ ... =



2080 kW



Models 75, 90 y 140



Model 180

(1)For more information consult the specifications table.



KJRM-120H2/BMWKO-E (CL 09 205)
Included



OPTIONALS

Accessories



VICTAULIC-RM 2" KIT
Mod. 75 and 90
(CL 97 296)

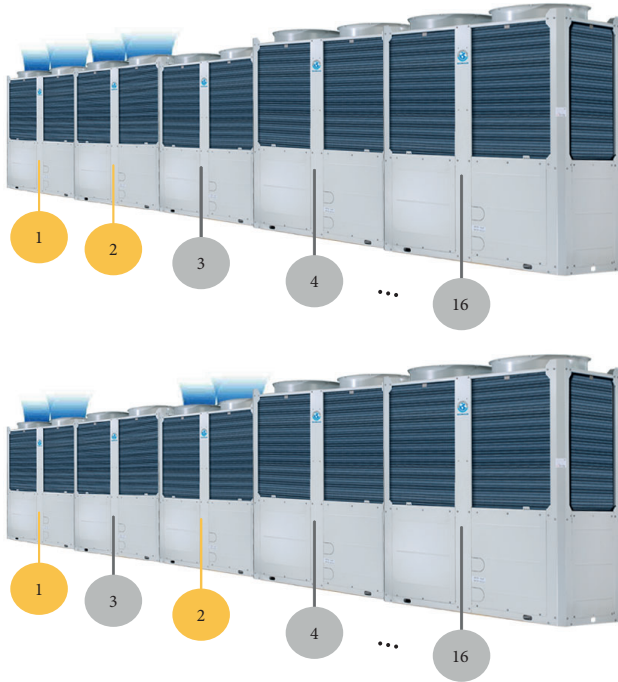
EASY CONNECTION

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.

MUENR-H12 Series INVERTER WATER CHILLERS

ROTATING FUNCTION

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



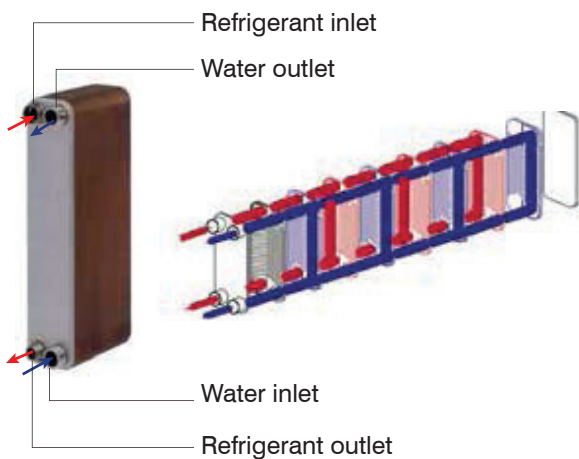
BACKUP FUNCTION

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



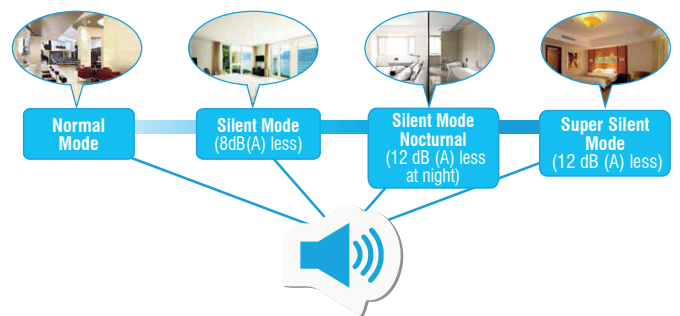
HIGH EFFICIENCY PLATE EXCHANGER

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 (K VERSION)

The modules of the MUENR-H12T(K) version incorporate a recirculation pump and an expansion tank.



FLOW SWITCH INCLUDED

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



REMOTE SIGNALS

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

MUENR-H12 Series INVERTER WATER CHILLERS



TECHNICAL SPECIFICATIONS

Model			MUENR-75-H12T	MUENR-75-H12T(K)	MUENR-90-H12T	MUENR-90-H12T(K)	MUENR-140-H12T	MUENR-140-H12T(K)	MUENR-180-H12T	MUENR-180-H12T(K)
Code			CL 25 652	CL 25 653	CL 25 654	CL 25 655	CL 25 656	CL 25 657	CL 25 658	CL 25 659
Cooling ⁽¹⁾	Capacity	kW	70	69.7	82	82	130	129.5	164	163
	Power consumption	kW	26.8	27.3	27.8	28.3	50.5	51.4	56	57.7
	Current	A	41.2	42	42.9	47	77.6	80.4	86.4	89
	EER	W/W	2.61	2.55	2.95	2.90	2.57	2.52	2.93	2.82
	SEER	W/W	4.3	4.23	4.5	4.44	4.4	4.33	4.41	4.35
Heating ⁽²⁾	Capacity	kW	75	75.4	90	90	138	138.6	180	181.2
	Power consumption	kW	23.7	24.3	28.1	29	44.5	45.6	57	59.1
	Current	A	36.4	37.3	43.3	48	68.3	71.4	87.8	91
	COP	W/W	3.16	3.1	3.2	3.10	3.1	3.04	3.16	3.07
	SCOP	W/W	4.05	3.95	3.97	3.77	3.9	3.83	3.8	3.65
	Energy labeling		A++	A++	A++	A+	A++	A++	A+	A+
Max. current	A	46	49.2	60	63.5	90	95	120	127	
Sound pressure ⁽³⁾	dB (A)	69	69	65	65	73	74	72	72	
Sound power ⁽³⁾	dB (A)	86	86	83	83	92	93	92	92	
Power supply	Ph, V, Hz	3+N, 380~415, 50								
Compressor	Brand	Hitachi								
	Model	DD110PHDG-D1Y6	DA80PHDG-D1Y6 x 2EA		DD110PHDG-D1Y6 x 2EA		DA80PHDG-D1Y6 x 4EA			
	Type	Scroll EVI								
	Quantity	1	2		2		4			
Fan	Type	DC								
	Quantity	2	2		2		4			
	Air flow rate	m ³ /h	28,500	35,000		50,000		70,000		
Water exchanger	Type	Plates								
	Water pressure drop	kPa	65	–	75	–	65	–	96	–
	Total pressure drop (includes hydraulic elements)	kPa	–	156	–	220	–	94	–	205
	Volume	L	5.17		7.05		11.1		6.96 x 2	
	Nominal flow rate (min-max)	m ³ /h	12.04 (8.0 ~ 15.5)		15 (10.2 ~ 18)		22.36 (15.6 ~ 28.5)		28.2 (20 ~ 36.1)	
	Max. design pressure	Mpa	1							
Water pump	Model	–	CM10-2	–	CM10-3	–	CM25-1	–	CM10-3	
	Nominal flow	m ³ /h	–	10	–	10	–	22	–	10
	Nominal pressure	kPa (mca)	–	0.6	–	0.6	–	0.6	–	0.6
	Nominal height	m	–	27.1	–	27.1	–	16	–	27.1
Expansion tank	L	–	12	–	12	–	24	–	12 x 2	
Dimensions (W x H x D)	mm	2,000 x 1,770 x 960			2,220 x 2,315 x 1,135		2,220 x 2,300 x 1,135		2,752 x 2,413 x 2,220	
Weight	kg	440	475	635	686	670	746	1,400	1,500	
Refrigerant	Type / GWP	R32 / 675								
	Quantity	kg/TCO ₂ eq	9 / 6.075		16 / 10.80		15.5 / 10.463		32 / 21.6	
Hydraulic connections	mm (inches)	DN50 (2")			DN50 (2")		DN65 (2 1/2")		DN80 (3")	
Electrical connections	Power wiring ⁽⁴⁾ / ICP	mm ² / A	4 x 16 + T / 63		4 x 25 + T / 100		4 x 50 + T / 150	4 x 50 + T / 160	4 x 70 + T / 200	
	Communication wiring ⁽⁵⁾	mm ²	3 x 0.75 (shielded)							
Operating ambient temp.	Cooling	°C	-10 ~ 48							
	Heating	°C	-20 ~ 43							
Outlet water temperature	Cooling ⁽⁶⁾	°C	0 ~ 20							
	Heating	°C	25 ~ 54							

Notes: ⁽¹⁾ Nominal cooling conditions: Inlet/outlet water temperature 7 °C / 12 °C; Outside room temperature 35 °C DB.

⁽²⁾ Nominal heating conditions: Inlet/outlet water temperature 40 °C / 45 °C; Outdoor room temperature 7 °C DB / 6 °C WB.

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

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

⁽⁵⁾ Interconnection wiring between modules.

⁽⁶⁾ Below 5 °C antifreeze must be added to the hydraulic circuit and the parameter "MIN TEMP. FOR COLD" from the service menu must be set.

*The capacity and efficiency data have been calculated in accordance with EN 14511, EN 14825.

Caution:

- Do not use groundwater or well water directly.
- The hydraulic circuit must be closed.
- Data and specifications can be changed without previous notice.