

MAXIMUM COMFORT AND ENERGY SAVING

The MHI hydromodule combines practicality of application and excellent performance. By combining floor heating with KXZ systems, customers can benefit from maximum efficiency and comfort.

HMU 140 KXZE1 AND HMU 280 KXZE1 HYDROMODULES

The new hydromodule is available in two different configurations (14 and 28 kW) and can be connected to the outdoor units of the KXZE2 and KXZXE1 series.

HIGH PERFORMANCE

- Production of hot water at 55°C (water-only mode).
- High-energy efficiency.
- Compact size and easy installation.
- A digital input and output system that facilitates their management and control (for example, ON/OFF, pump activation and/or electrical resistance, anomaly signalling, local command inhibition, etc.).

THE CONTROL SYSTEM

The **RC-EX3H wired control connected to the HMUs** can be used to switch the system on and off and to set operating times.

Based on outdoor thermal conditions, climatic curves are used to calculate the delivery temperature to the system.

CONSTANT CONTROL OF THE OUTLET WATER TEMPERATURE

This is achieved by controlling the following:

- compressor frequency;
- electronic expansion valve;
- power of the HMUs based on the load.

FROST PROTECTION

The plate heat exchanger's frost protection is also active during defrosting operations.



14 kW
28 kW

Two different hydromodule capacities

55°C

Hot water temperature in water only mode

-20°C




Maximum efficiency up to -20°C

KXZ Heating

HMU UNIT

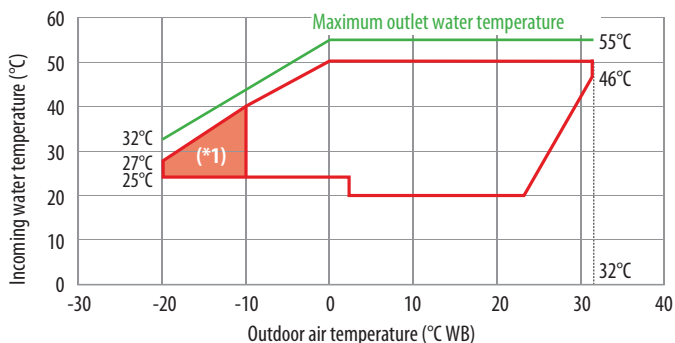
HYDROMODULE COMPONENTS

The hydromodule consists of the following parts:

		
Electrical control box	Plate heat exchanger	Circulating pump
HMU-kit	14 kW : V26Hx26 28 kW : V26Hx50	14 kW : 80kPa 28 kW : 90kPa

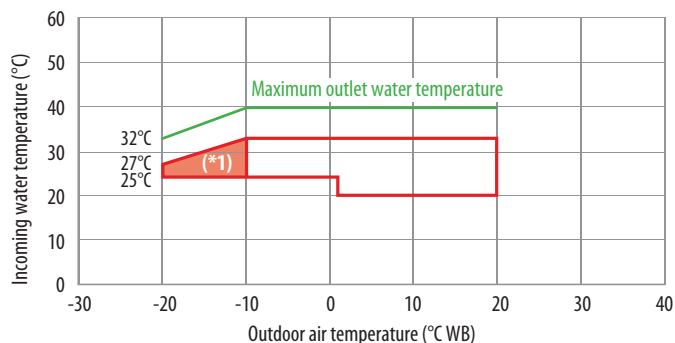


RANGE OF USE OF HMU IN WATER-ONLY MODE



(*1) In the dashed field, operation is possible with some limitations.

RANGE OF USE OF HMU IN MIXED MODE



(*1) In the dashed field, operation is possible with some limitations.

IMPORTANT

During the first winter start-up of the cold system, it is advisable to prepare the hydraulic connections for an additional electric heater to be used to bring the water to the minimum temperature expected, based on the outdoor heater. As a result, the heater can be installed and disassembled after it has been started, if necessary.

KXZ Heating

HMU UNIT

PERFORMANCE

Indoor unit model				HMU280KXZE1		
Outdoor unit model				FDC280KXZE2		
Heating	Rated power	A7/W35	kW	25.20		
	Electrical absorption			6.00		
	Performance coefficient			4.20		
	Rated power	A7/W45	kW	23.15		
	Electrical absorption			6.90		
	Performance coefficient			3.36		
	Rated power	A7/W55	kW	23.00		
	Electrical absorption			8.40		
	Performance coefficient			2.74		
	Water flow rate			L/min	80	
	Seasonal energy efficiency (η _s)	35		%	151	
	Energy efficiency class	35		-	A++	

TECHNICAL FEATURES

Model				HMU 140 KXZE1	HMU 280 KXZE1	
Heating	Max power		kW	14.00	28.00	
Operating limits	Outside air temperature	Water only	°C	-20~32		
		Mixed use		-20~20		
	Delivery water temperature ¹	Water only	°C	25~55		
		Mixed use		25~40		
Refrigerant circuit data	Water flow	Min ~ Max	L/min	20 ~ 40	24 ~ 80	
	Heat exchanger	Type		Electronic expansion valve		
	Circulation pump			Included		
	External static pressure			kPa	89	95
	Expansion tank			Not included		
	Water pipe			Inches	R1-1/2"	
	Safety valve			bar	6	
Electrical data	Power supply		Ph-V-Hz	1ph-220~240V-50Hz		
	Maximum current		A	1.54	1.54	
	Power absorption		kW	0.316	0.316	
Product specifications	Dimensions	LxDxH	mm	860(+110)x550x400		
	Weight	Net	kg	46	48	
	Sound pressure level	Max	dB(A)	27	30	
	Sound power level	Max	dB(A)	46	49	
	Refrigerant pipe	Liquid - Gas	Inches (mm)	ø3/8" (9.52) - ø5/8" (15.88) ø3/8" (9.52) - ø3/4" (19.05)		
Controls (not included)	Wired remote control		RC-EX3H			

1. For the project specifications, see the ambit of application.