OUTDOOR UNITS

FEATURES

- We offer you outdoor units in a single-propeller version in capacity of 6, 8, 10, 12, 14, 16 kW in single-phase and three-phase versions (units with suffix -3)
- Outdoor units of compact dimensions facilitating problem-free installations and also transportation
- $\cdot\,$ The device uses environmentally friendly refrigerant R32 with low GWP value
- Compressor with added economizer and intermediate stage
- injection of refrigerant, thanks to which high efficiency and energy saving are achieved
- \cdot Motor control technology by semiconductor frequency converter
- The units are equipped with an inverter control that changes the speed of the compressor. The delivered power of the units is
- precisely adapted to the heating system
- Energy savings of up to 40 % and temperature fluctuations are avoided
- Between the outdoor unit and the indoor unit, the pipe length can be up to 30 meters. Elevation up to 20 meters

MSH-60EB MSH-80EB MSH-100EB MSH-120EB MSH-120EB-3 MSH-140EB MSH-140EB-3 MSH-160EB MSH-160EB-3



Model MSH-				60EB	80EB	100EB	120EB/120EB-3	140EB/140EB-3	160EB/160EB-3
Power supply			V / Ph / Hz	220-240 / 1 /50 380-415 / 3 /50					
Capacity		Heating	kW	6,2	8,3	10	12,1	14,5	16
		Cooling	kW	6,55	8,4	10	12	13,5	14,2
Power		Heating	kW	1,24	1,6	2,0	2,4	3,1	3,6
		Cooling	kW	1,34	1,66	2,08	3,0	3,7	3,9
COP		Heating	-	5	5,2	5	4,95	4,7	4,5
EER		Cooling	-	4,9	5,05	4,8	4	3,61	3,61
Technical parameters	Level of acoustic pressure	Max.	dB (A)	44	46	49	50	51	55
	Energy class	Heating (55 °C / 35 °C)	-	A++ / A+++					
	SCOP	Heating (55 °C / 35 °C)	-	3,52 / 4,95	3,37 / 5,22	3,47 / 5,2	3,45 / 4,81	3,47 / 4,72	3,41 / 4,62
	Refrigerant Type		-	R32					
		Amount	kg	1,5	1,65 1,84				
	Domestic hot water temperature		٥C	12-60					
	Refrigerant pipes	Gas	inch / mm	5/8" / 16,0					
		Liquid	inch / mm	1/4" / 6,0 3/8" / 9,5					
	Unit Dimension	(w x h x d)	mm	1008 x 712 x 426 1118 x 865 x 523					
	Package Dimension	(w x h x d)	mm	1065 x 810 x 485	65 x 810 x 485 1190 x 970 x 560				
	Weight netto/brutto		kg	58 / 63,5	75 / 89 112 / 125,5				
	Operating temperature range °C		٥C	-25 - 43					
	Standard pipe length		m	15					
	Max. pipe length		m	30					
	Max. elevation		m	20					
	Additional refrigeration		g/m	20 38					

CAPACITIES AND POWER INPUTS ARE BASED ON THE FOLLOWING CONDITIONS:

COOLING conditions: Indoor Water Temperature 23 °C / 18 °C. Outdoor Air Temperature 35 °C DB / 24 °C WB. HEATING conditions: Indoor Water Temperature 30 °C / 35 °C. Outdoor Air Temperature 7 °C DB / 6 °C WB.

The specifcation of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R32 (100% HFC-32), GWP of refrigerant used: 675. Sound pressure level is tested in a soundless chamber, actual values may be affected by local conditions.



MSH-140EB-3

MSH-160EB-3

INDOOR UNIT HYDROBOX

FEATURES

MSH-160IB-3/9

MSH-160IB-3/9

 Possibility of control High efficiency Circulatory pump with Integrated expansion Possibility of equithe reference room temp Possibility cooling in a Preparation of hot do Possibility of adding a 	STHERM				
Possible combinations					
Indoor	Outdoor				
MSH-60IB/3	MSH-60EB			4 0 1	
MSH-100IB/3	MSH-80EB				
MSH-100IB/3	MSH-100EB				
MSH-160IB/3	MSH-120EB				
MSH-160IB/3	MSH-140EB			· · · · · · · · · · · · · · · · · · ·	
MSH-160IB/3	MSH-160EB				
MSH-100IB-3/9	MSH-80EB				
MSH-100IB-3/9	MSH-100EB		WIFI 6		
MSH-160IB-3/9	MSH-120EB-3	_			
		-			

Model MSH-				60IB/3	100IB/3 100IB-3/9	160IB/3 160IB-3/9		
Power supply V			V / Ph / Hz	220-240 / 1 / 50	380-415 / 3 / 50			
Connecting pipe (refrigerant) Gas Liquid			5/8" / 16,0					
		Liquid	inch / mm	1/4" / 6,0	3/8" / 9,5			
Connecting pipe (water) Inlet Outlet		Inlet	inch	1'				
		Outlet						
Safety valve		bar	3					
Leaving water temperature Cooling Heating		Cooling	C	5 - 25				
		Heating		25 - 65				
Main components	Water pump	Туре	-	Inverter				
		Speed	-	Automatic				
		Max. power	W	90				
	Expansion tank	Volume	l	8				
		Max. pressure	bar	3				
		Pressure	bar	1				
	Auxiliary electric heater	Mode	-	Automatic				
heater		Capacity	kW	3	3/9			
		Combination	-	3	3/3+3+3			
	Power supply		V / Ph / Hz	220-240 / 1 / 50	380-415 / 3 / 50			
	Heat exchanger	Туре	-	Brazed plate				
		Amount	-	1				
Level of acoustic pressure in 1m		dB (A)	28	30	32			
Dimensions Outline (w x d x h)			420 x 790 x 270					
Packaged (w x d x h)			mm	525 x 1050 x 360				
Weight		Net	ka	3	39			
		Gross	kg	4	45			



YUKON