HEAT PUMPS EXTREME

MONOBLOCK

+ BUILT-IN HYDRAULIC MODULE

MONOBLOCK heat pump models are equipped with a fully integrated cooling system and a hydraulic module. The application of this solution makes it possible to install the heat pump without the necessity to connect the refrigerant. The innovative architecture of double doors makes pump servicing quick, and a modern driver guarantees access to monitoring of the work of the system and allows you to change settings.

clean air
healthy choice

Technical specification

MONOBLOCK heat pump compressor model			HHPM-M8TH1PH	HHPM-M10TH1PH	HHPM-M12TH3PH	HHPM-M14TH3PH	HHPM-M16TH3PH
Power supply		V/Ph/Hz	220-240/1/50		380-415/3/50		
Heating (LWT=35°C) (Outside temperature 2°C, 85% RH, EWT 30°C, LWT 35°C)	Efficiency	kW	7.10	8.20	9.2	11.0	13.0
	Power consumption	kW	1.73	2.05	2.36	3.06	3.77
	COP	-	4.10	4.00	3.90	3.60	3.45
Heating (LWT=35°C) (Outside temperature 7°C, 85% RH, EWT 30°C, LWT 35°C)	Efficiency	kW	8.40	10.0	12.1	14.5	15.9
	Power consumption	kW	1.63	2.02	2.44	3.15	3.53
	COP	-	5.15	4.95	4.95	4.60	4.50
Heating (LWT=55°C) (Outside temperature 7°C, 85% RH, EWT 47°C, LWT 55°C)	Efficiency	kW	7.50	9.50	11.9	13.8	16.0
	Power consumption	kW	2.36	3.06	3.90	4.68	5.61
	COP	-	3.18	3.10	3.05	2.95	2.85
Cooling (LWT =18°C) (Outside temperature 35°C , EWT 23°C, LWT 18°C)	Efficiency	kW	8.30	9.90	12.00	13.50	14.90
	Power consumption	kW	1.64	2.18	3.04	3.75	4.38
	EER	-	5.05	4.55	3.95	3.60	3.40
Cooling (LWT=7°C) (Outside temperature 35°C , EWT 12°C, LWT 7°C)	Efficiency	kW	7.45	8.20	11.5	12.4	14.0
	Power consumption	kW	2.22	2.52	4.18	4.96	5.60
	EER	-	3.35	3.25	2.75	2.50	2.50
Seasonal Energy Efficiency Rating, heating mode	LWT =35°C	-	A+++	A+++	A+++	A+++	A+++
	LWT =55°C	-	A++	A++	A++	A++	A++
Overcurrent protection		A	25	32	20	20	20
Power supply (number of leads x cross-section)		mm2	3x4.0	3x4.0	5x2.5	5x2.5	5x2.5
Sound pressure level (max.)		dB(A)	48.5	50.5	53.5	54	58
Dimensions of external unit (WxHxD)		mm	1385×945×526				
Weight net/gross		kg	121/148		160/188		
Compressor	Type		DC INVERTER with double rotor (Mitsubishi)				
Engine type			DC engine				
Refrigerant	Type / Gas volume	kg	R32 / 1,4		R32 / 1,75		
Expanding element			Electronic expansion valve (EXV)				
Recommended working range	Cooling	°C	-5~43				
	Heating	°C	-25~35				
	DHW	°C	-25~43				
Heat exchanger for water	Type		Plate-type exchanger				
Connection for water	Type	cal	R5/4"				
Water pump (prod. Grundfos)	Max. delivery head	m	9				
Leaving water temperature range	Cooling	°C	5~30				
	Heating	°C	12~65				
	DHW (tank)	°C	10~60				