



# 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.

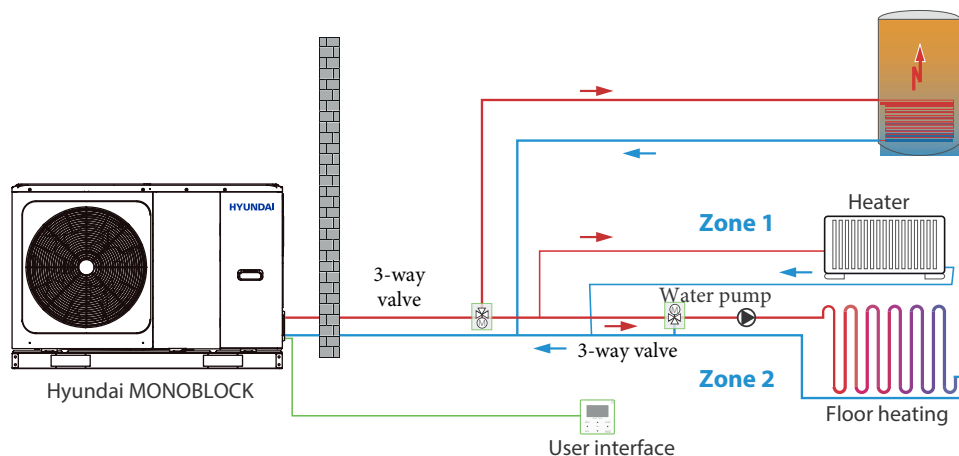


Technical specification

MONOBLOCK heat pump compressor model			HHPM-M4TH1PH	HHPM-M6TH1PH	HHPM-M8TH1PH	HHPM-M10TH1PH	HHPM-M12TH3PH	HHPM-M14TH3PH	HHPM-M16TH3PH	HHPM-M18TH3PH	HHPM-M22TH3PH	HHPM-M26TH3PH	HHPM-M30TH3PH	
Power supply			V/Ph/Hz				220-240/1/50				380-415/3/50			
Heating (LWT=35°C) <small>(Outside temperature 2°C, 85% RH, EWT 30°C, LWT 35°C)</small>	Efficiency	kW	4.40	5.50	7.10	8.20	9.2	11.0	13.0	18.0	22.0	24.0	26.0	
	Power consumption	kW	1.10	1.41	1.73	2.05	2.36	3.06	3.77	5.32	7.09	8.33	9.28	
	COP	-	4.00	3.90	4.10	4.00	3.90	3.60	3.45	3.38	3.10	2.88	2.80	
Heating (LWT=35°C) <small>(Outside temperature 7°C, 85% RH, EWT 30°C, LWT 35°C)</small>	Efficiency	kW	6.35	6.35	8.40	10.0	12.1	14.5	15.9	18.0	22.0	26.0	30.1	
	Power consumption	kW	1.28	1.28	1.63	2.02	2.44	3.15	3.53	3.83	5.00	6.37	7.69	
	COP	-	4.95	4.95	5.15	4.95	4.95	4.60	4.50	4.70	4.40	4.08	3.91	
Heating (LWT=55°C) <small>(Outside temperature 7°C, 85% RH, EWT 47°C, LWT 55°C)</small>	Efficiency	kW	4.40	6.00	7.50	9.50	11.9	13.8	16.0	18.0	22.0	26.0	30.0	
	Power consumption	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	6.54	8.30	10.6	13.0	
	COP	-	2.95	2.95	3.18	3.10	3.05	2.95	2.85	2.75	2.65	2.45	2.30	
Cooling (LWT=18°C) <small>(Outside temperature 35°C, EWT 23°C, LWT 18°C)</small>	Efficiency	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90	18.50	23.00	27.00	31.0	
	Power consumption	kW	0.82	1.35	1.64	2.18	3.04	3.75	4.38	3.89	5.00	6.27	7.7	
	EER	-	5.50	4.80	5.05	4.55	3.95	3.60	3.40	4.75	4.60	4.30	4.00	
Cooling (LWT=7°C) <small>(Outside temperature 35°C, EWT 12°C, LWT 7°C)</small>	Efficiency	kW	4.70	7.00	7.45	8.20	11.5	12.4	14.0	17.0	21.0	26.0	29.5	
	Power consumption	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60	5.57	7.1	9.6	11.5	
	EER	-	3.45	3.00	3.35	3.25	2.75	2.50	2.50	3.05	2.95	2.70	2.55	
Seasonal Energy Efficiency Rating, heating mode	LWT =35°C	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	LWT =55°C	-	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	
Overcurrent protection	A	20	20	25	32	20	20	20	20	20	25	25	32	
Power supply (number of leads x cross-section)	mm2	3x2.5	3x2.5	3x4.0	3x4.0	5x2.5	5x2.5	5x2.5	5x2.5	5x2.5	5x4.0	5x4.0	5x4.0	
Sound pressure level (max.)	dB(A)	45	47.5	48.5	50.5	53.5	54	58	57.6	59.8	61.5	63.5		
Dimensions of external unit (WxHxD)	mm	1295x792x429			1385x945x526				1129x1558x440					
Weight net/gross	kg	98/121			121/148		160/188			177 / 206				
Compressor	Type	DC INVERTER with double rotor (Mitsubishi)												
Engine type		DC engine												
Refrigerant	Type / Gas volume	kg	R32 / 1,4				R32 / 1,75				R32 / 5,00			
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	R1"			R5/4"				1-1/4" BSP				
Water pump (prod. Grundfos)	Max. delivery head	m	9				12							
Leaving water temperature range	Cooling	°C	5~30				5~25							
	Heating	°C	12~65				25~65							
	DHW (tank)	°C	10~60				40~60							

\*RH - relative humidity  
 \*\*EWT- entering water temperature  
 \*\*\*LWT- leaving water temperature

\*Device is compliant with the EU Directive 811/2013



Domestic hot water tank

Zone 1 is controlled on the basis of leaving water temperature.  
 Zone 2 is controlled by an in-built sensor.