



MHP25KC-01&MHP30KC-01

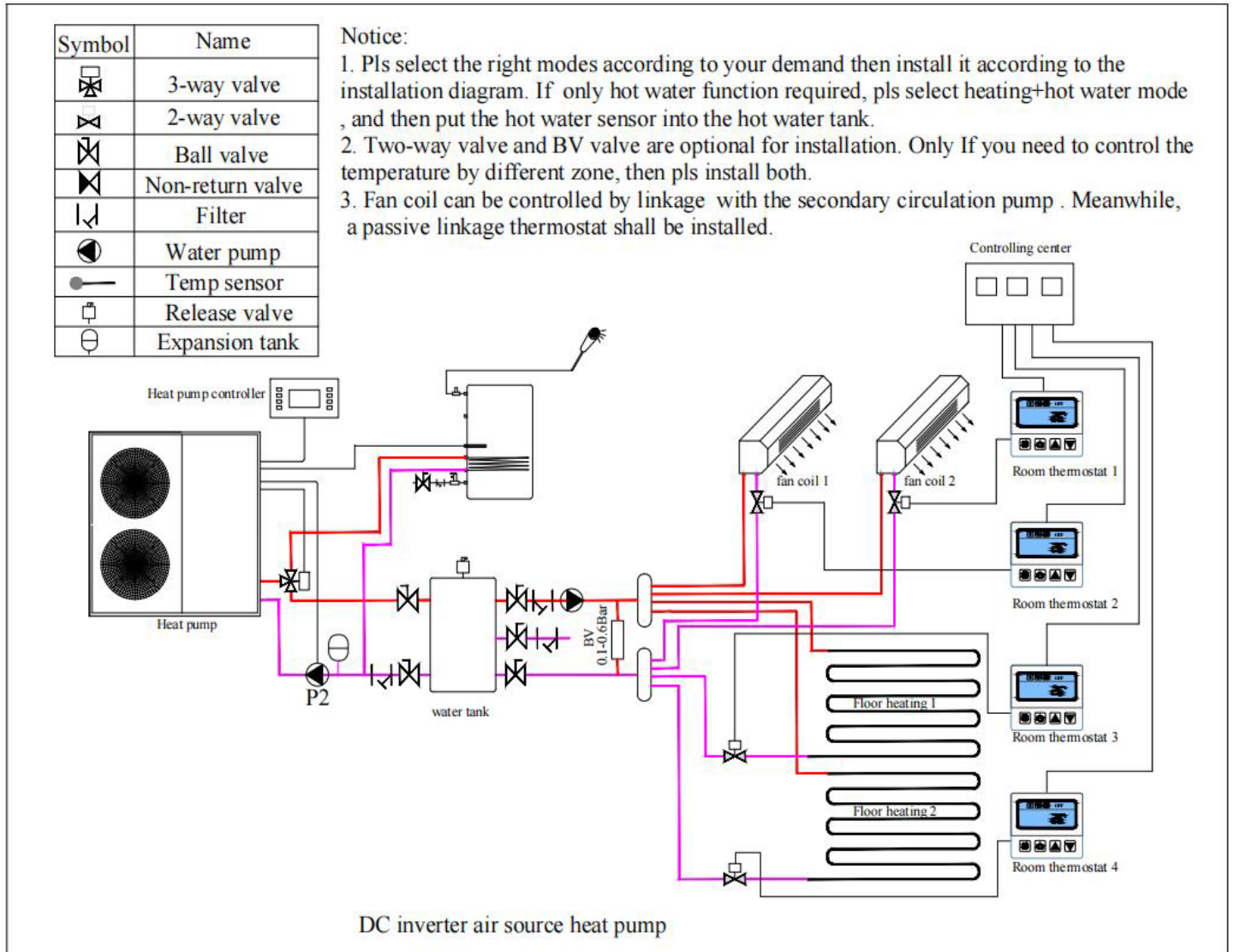


Features:

1. Working source temperature range: -25°C to 45°C
2. Control Object: water tank temperature
(Setting range: Heating: $30^{\circ}\text{C} \sim 70^{\circ}\text{C}$; Cooling: $32^{\circ}\text{C} \sim 12^{\circ}\text{C}$)
3. Control Way: wire controller
4. Water Pump: start/stop according to water tank temp
5. Working Modes: hot water/heating/cooling/hot water+cooling/hot water+heating



Installation Diagram



Note:

- (1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C;
- (2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/WB 6°C;
- (3) Cooling condition: water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB35°C/WB24°C;
- (4) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB35°C/WB24°C;

Unit Name									
Model			MHP25KC-01				MHP30KC-01		
Power Supply		V/Hz/Ph	380-420/50/3				380-420/50/3		
Max. Heating Capacity (A7℃/W35℃)		kW	25				30		
C.O.P (A7℃/W35℃)		W/W	3.95				3.85		
Heating Capacity Min./Max.(A7℃/W35℃)		kW	8.15 / 25.00				10.05 / 30.00		
Heating Power Input Min./Max.(A7℃/W35℃)		W	1630 / 6329				2072 / 7792		
C.O.P Min./Max.(A7℃/W35℃)		W/W	3.95 / 5.00				3.85 / 4.85		
Max. Heating Capacity(A7℃/W45℃)		kW	24.11				28.05		
C.O.P (A7℃/W45℃)		W/W	3.42				3.36		
Heating Capacity Min./Max.(A7℃/W45℃)		kW	7.42 / 24.11				9.05 / 28.05		
Heating power input Min./Max.(A7℃/W45℃)		W	1878 / 7050				2363 / 8348		
C.O.P Min./Max.(A7℃/W45℃)		W/W	3.42 / 3.95				3.36 / 3.83		
Max. Cooling Capacity(A35℃/W18℃)		kW	20.10				23.90		
E.E.R (A35℃/W18℃)		W/W	3.23				3.28		
Cooling Capacity Min./Max.(A35℃/W18℃)		kW	8.14 / 20.10				9.29 / 23.90		
Cooling Power Input Min./Max.(A35℃/W18℃)		W	2171 / 6223				2497 / 7287		
E.E.R Min./Max.(A35℃/W18℃)		W/W	3.23 / 3.75				3.28 / 3.72		
Max. Cooling Capacity(A35℃/W7℃)		kW	17.00				19.20		
E.E.R(A35℃/W7℃)		W/W	2.56				2.64		
Cooling Capacity Min./Max.(A35℃/W7℃)		kW	7.20 / 17.00				8.20 / 19.20		
Cooling Power Input Min./Max.(A35℃/W7℃)		W	2087 / 6641				2391 / 7273		
E.E.R Min./Max.(A35℃/W7℃)		W/W	2.56 / 3.45				2.64 / 3.43		
Max Power Input		kW	11.00				13.50		
Max Current		A	16.70				20.50		
Wire diameter		mm²	6.0				6.0		
Fuse or circuitbreakerer		A	25A				32A		
Water Flow		m³/h	4.30				5.16		
Hot Water Flow Rate		L/h	518.00				603.00		
Compressor		Brand	HIGHLY				HITACHI		
Refrigerant / Suggested Input		Kg	R290/1.80				R290/2.1		
Fan	Type	/	DC				DC		
	Quantity	/	2				2		
	Airflow	m3/h	11000				11000		
	Rated Fan Speed	RPM	900				900		
	Rated power	W	250				250		
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger				Plate Heat Exchanger		
	Water Pressure Drop	kPa	30				35		
	Piping Connection	Inch	G1.2"				G1.2"		
Allowable Water Flow	Min./Rated./Max.	L/S	0.75	1.19	1.99	0.90	1.43	2.39	
Noise Level (Power Pressure)		dB(A)	63				64		
IP Class		/	IPX4				IPX4		
Net Dimension(L×D×H)		mm	1249*509*1558				1249*509*1558		
Splint packing Dimension(L×D×H)		mm	1340*575*1715				1340*575*1715		
Net Weight		kg	220				231		
Splint gross Weight		kg	262				/		
Pdesignh (35/55℃)		kW	18.373/17.368				22.105/21.090		
SCOP (35/55℃)		kWh/kWh	4.73/3.63				4.60/3.47		
SCOPon (35/55℃)		kWh/kWh	4.74/3.64				4.61/3.47		
QH (35/55℃)		kWh/year	37959/35883				45670/43571		
QHE (35/55℃)		kWh/year	8023/9873				9926/12555		
ηs,h (35/55℃)		--	186.3/142.4				181.0/135.8		
Seasonal space heating energyefficiency classes: (According		--	A+++				A+++		
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Operation Ambint Temp.(℃)		-25~45							
Operation water Temp.(℃)		10~70(DHW)							
Operation water Temp.(℃)		10~70(Heating)							
Operation water Temp.(℃)		12~30(Cooling)							