



MHP100KC-01

DC Inverter Air Source Heat Pumps (Monoblock Type)

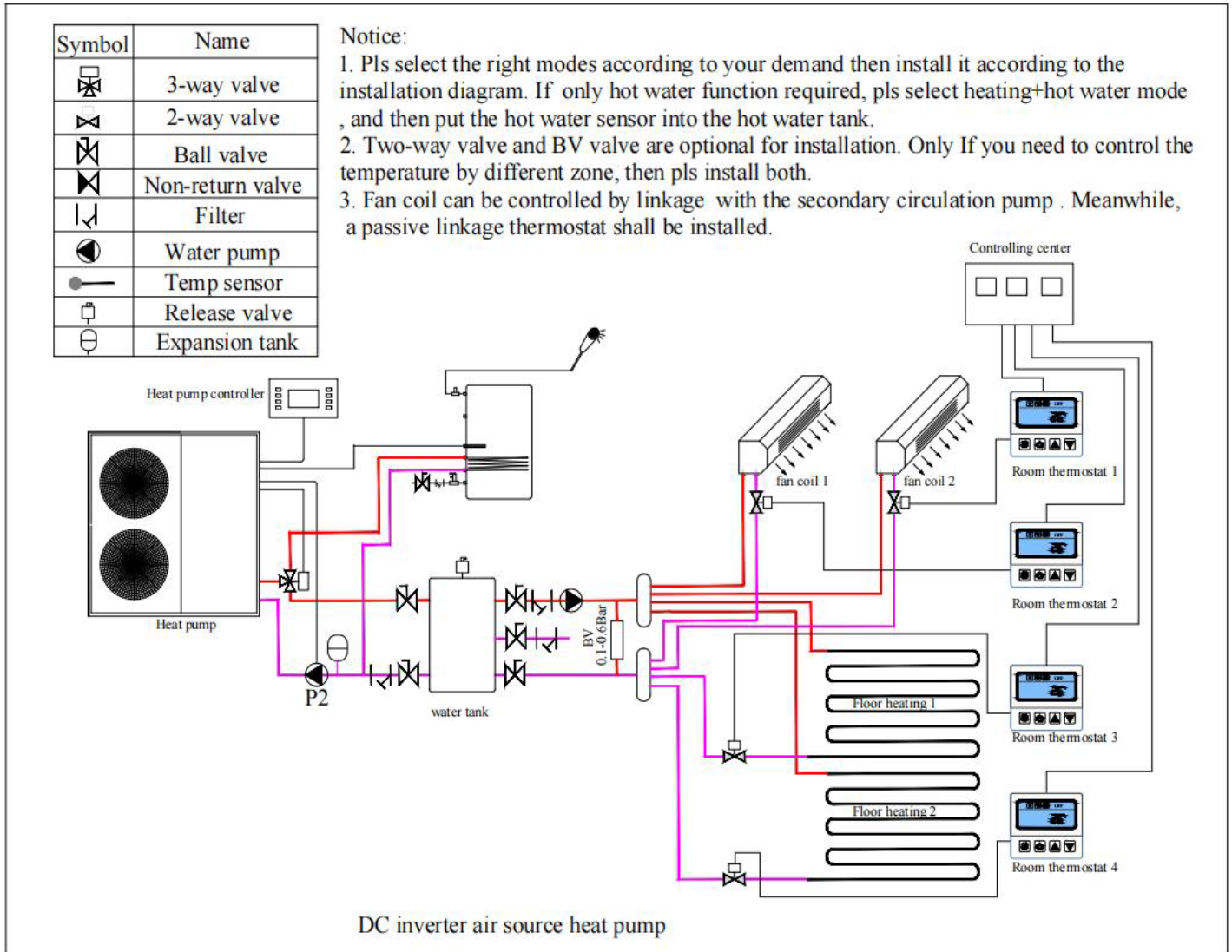


Features:

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			MHP100KC-01			
Power Supply		V/Hz/Ph	380-420/50/3			
Max. Heating Capacity (A7℃/W35℃)		kW	100			
C.O.P (A7℃/W35℃)		W/W	3.75			
Heating Capacity Min./Max.(A7℃/W35℃)		kW	29.50	/	100.00	
Heating Power Input Min./Max.(A7℃/W35℃)		W	6008	/	26667	
C.O.P Min./Max.(A7℃/W35℃)		W/W	3.75	/	4.91	
Max. Heating Capacity(A7℃/W45℃)		kW	93.50			
C.O.P (A7℃/W45℃)		W/W	3.15			
Heating Capacity Min./Max.(A7℃/W45℃)		kW	28.05	/	93.50	
Heating power input Min./Max.(A7℃/W45℃)		W	7174	/	29683	
C.O.P Min./Max.(A7℃/W45℃)		W/W	3.15	/	3.91	
Max. Cooling Capacity(A35℃/W18℃)		kW	87.50			
E.E.R (A35℃/W18℃)		W/W	3.70			
Cooling Capacity Min./Max.(A35℃/W18℃)		kW	27.13	/	87.50	
Cooling Power Input Min./Max.(A35℃/W18℃)		W	7311	/	23649	
E.E.R Min./Max.(A35℃/W18℃)		W/W	3.70	/	3.71	
Max. Cooling Capacity(A35℃/W7℃)		kW	65.00			
E.E.R(A35℃/W7℃)		W/W	2.88			
Cooling Capacity Min./Max.(A35℃/W7℃)		kW	19.50	/	65.00	
Cooling Power Input Min./Max.(A35℃/W7℃)		W	5540	/	22609	
E.E.R Min./Max.(A35℃/W7℃)		W/W	2.88	/	3.52	
Max Power Input		kW	41.00			
Max Current		A	62.80			
Wire diameter		mm²	16.0			
Fuse or circuitbreakerer		A	80A			
Compressor		Brand	HITACHI			
Refrigerant / Suggested Input		Kg	R290/2*3.8			
Fan	Type	/	DC			
	Quantity	/	2			
	Airflow	m3/h	32000			
	Rated Fan Speed	RPM	900			
	Rated power	W	2400			
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger			
	Water Pressure Drop	kPa	63			
	Piping Connection	Inch	G2.5"			
Allowable Water Flow	Min./Rated./Max.	L/S	2.99	4.78	7.96	
Noise Level (Power Pressure)		dB(A)	75			
IP Class		/	IPX4			
Net Dimension(L×D×H)		mm	2200*1100*1966			
Splint packing Dimension(L×D×H)		mm	2340*1202*2122			
Net Weight		kg	760			
Splint gross Weight		kg	851			
Container Loading Capacity (20/40HQ)		number	4/10			
Pdesignh (35/55℃)		kW	61.411/60.100			
SCOP (35/55℃)		kWh/kWh	4.50/3.46			
SCOPon (35/55℃)		kWh/kWh	4.51/3.47			
QH (35/55℃)		kWh/year	126875/124166			
QHE (35/55℃)		kWh/year	28191/35852			
ηs,h (35/55℃)		--	177.0/135.5			
Seasonal space heating energyefficiency classes: (According		--	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)				