

R290

AIR SOURCE MONOBLOCK
HEAT PUMP

A+++

6KW/8KW/12KW/18KW



Features

- Environmental friendly refrigerant R290
- A+++/A++ high efficiency 75 C hot water
- Highly (Hitachi) DC inverter compressor
- Built-in water pump
- Danfoss heat exchanger
- Low noise to 38dB
- 4 or 5-Inch TFT true color screen
- Free WIFI intelligent control
- Smart Grid automatic identification
- Dual temperature zone control
- DTU remote tracking module
- Max to 16 units cascading
- S.P.D deforsting in 2 min.



Parameter Table

Model		SMHP-006C1	SMHP-008C1	SMHP-012C1	SMHP-018C1	SMHP-008C3	SMHP-012C3	SMHP-018C3
Rated voltage / Frequency		220-240V~ / 50(60)Hz				380-415V/3N~/50(60)Hz		
Heating ¹	Capacity	kW	2.92-9.10	4.1-12.1	4.30-15.20	7.24-21.90	4.1-12.1	4.30-15.20
	Input Power	kW	0.61-2.11	0.79-2.85	0.87-3.73	1.50-5.88	0.79-2.85	0.87-3.73
	Input Current	A	2.80-9.25	3.45-13.04	4.02-16.38	6.86-30.25	1.62-4.57	1.78-6.04
	COP	W/W	4.31-5.66	4.24-5.57	4.07-5.57	3.82-5.59	4.24-5.57	4.07-5.57
Heating ²	Capacity	kW	2.99-8.16	4.05-12.15	4.25-14.55	6.36-19.45	4.05-12.15	4.25-14.55
	Input Power	kW	1.03-2.92	1.38-4.06	1.45-4.28	2.15-6.85	1.38-4.06	1.45-4.28
	Input Current	A	4.57-12.79	5.73-17.7	6.71-18.80	9.84-30.12	2.7-6.43	2.84-6.78
	COP	W/W	2.79-3.46	2.99-3.45	2.83-3.45	2.84-3.57	2.99-3.45	2.83-3.45
Cooling	Capacity	kW	1.38-5.70	3.65-8.59	3.65-11.04	4.55-17.20	3.65-8.59	3.65-11.04
	Input Power	kW	0.67-2.44	1.12-3.31	1.12-3.97	1.85-7.31	1.12-3.31	1.12-3.97
	Input Current	A	3.06-10.27	5.18-14.47	5.18-17.44	8.47-32.1	1.97-5.25	1.97-6.30
SCOP (Water Temp. At 35℃)			4.83	4.84	4.77	4.81	4.84	4.74
SCOP (Water Temp. At 55℃)			3.71	3.60	3.77	3.72	3.60	3.70
Max Input Power		kW	3.5	5.40	5.40	7.50	5.85	10.5
Max Input Current		A	15.0	25.0	25.0	35.0	10.0	17.0
Refrigerant Type/Charge/GWP		.../kg	R290/0.55/3	R290/1.05/3	R290/1.05/3	R290/1.4/3	R290/1.05/3	R290/1.05/3
CO ₂ Equivalent		/	0.0017t	0.0032t	0.0032t	0.0042t	0.0032t	0.0042t
Operation Pressure(Low Side)		MPa	0.8	0.8	0.8	0.8	0.8	0.8
Operation Pressure(High Side)		MPa	3.0	3.0	3.0	3.0	3.0	3.0
Maximum Allowable Pressure		MPa	3.2	3.2	3.2	3.2	3.2	3.2
Electrical Shockproof		/	I	I	I	I	I	I
IP Class		/	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Max. Outlet Water Temp.		℃	75	75	75	75	75	75
Operating Ambient Temperature		℃	-25~45	-25~45	-25~45	-25~45	-25~45	-25~45
Water Piping Connections		inch	G1	G1	G1	G1-1/4	G1	G1-1/4
Rated Water Flow		m ³ /h	1.0	1.40	2.06	3.10	1.40	2.06
Water Pressure Drop		kPa	20	20	20	55	20	20
Min/Max Water Pressure		MPa	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3
Sound pressure Level		dB(A)	46	43	53	56	43	54
Net Dimensions (L×W×H)		mm	1187×418×805	1287×448×904	1287×448×904	1187×488×145	1287×448×904	1287×448×904
Net Weight		kg	110	134	134	195	134	134

Rated Test Conditions:

Heating¹: Ambient Temp 7℃/6℃(DB/WB),Water-In/Out Temp 30℃/35℃ Heating²: Ambient Temp 7℃/6℃(DB/WB),Water-In/Out Temp 47℃/55℃

Cooling: Ambient Temp 35℃/24℃(DB/WB),Water-In/Out Temp 12℃/7℃

R290



With Intelligent
Defrost Function
Min≥ -25℃ operation