

HP290 SERIES HEAT PUMP MONOBLOCK

SPECIFICATIONS



Model			HP1-6-M	HP1-12-M	HP1-18-M	HP3-12-M	HP3-18-M
Performance Parameters							
Rated voltage / Frequency			220-240V~/50/60Hz	220-240V~/50/60Hz	220-240V~/50/60Hz	380-415V/3N~/50/60Hz	380-415V/3N~/50/60Hz
Heating ¹	Capacity	kW	2.92-9.10	4.30-15.20	7.24-21.90	4.30-15.20	7.24-21.90
	Input Power	kW	0.61-2.11	0.87-3.73	1.50-5.88	0.87-3.73	1.50-5.88
	Input Current	A	2.80-9.25	4.02-16.38	6.86-30.25	1.78-6.04	2.82-9.16
Heating ²	Capacity	kW	2.99-8.16	4.25-14.55	6.36-19.45	4.25-14.55	6.36-19.45
	Input Power	kW	1.03-2.92	1.45-4.28	2.15-6.85	1.45-4.28	2.15-6.85
	Input Current	A	4.57-12.79	6.71-18.80	9.84-30.12	2.84-6.78	3.71-10.60
Cooling	Capacity	kW	1.38-5.70	3.65-11.04	4.55-17.20	3.65-11.04	4.55-17.20
	Input Power	kW	0.67-2.44	1.12-3.97	1.85-7.31	1.12-3.97	1.85-7.31
	Input Current	A	3.06-10.27	5.18-17.44	8.47-32.1	1.97-6.30	2.99-11.26
SCOP (Water Temp. At 35°C)			4.98	4.90	4.91	4.90	4.93
SCOP (Water Temp. At 55°C)			3.84	3.86	3.94	3.86	3.93
Basic Parameters							
Rated Input Power	kW		3.5	5.40	7.50	5.85	10.5
Rated Input Current	A		15.0	25.0	35.0	10.0	17.0
Refrigerant Type/Charge/GWP	_/kg		R290/0.55/3	R290/0.90/3	R290/1.4/3	R290/0.90/3	R290/1.4/3
CO ₂ Equivalent	/		0.0017t	0.0027t	0.0042t	0.0027t	0.0042t
Operation Pressure (Low Side)	MPa		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
Maximum Allowable Pressure	MPa		3.0	3.0	3.0	3.0	3.0
Electrical Shockproof	/		1	1	1	1	1
IP Class	/		IPX4	IPX4	IPX4	IPX4	IPX4
Max. Outlet Water Temp.	°C		75	75	75	75	75
Operating Ambient Temperature	°C		-25-45	-25-45	-25-45	-25-45	-25-45
Water Piping Connections	inch		G1	G1	G1-1/4	G1	G1-1/4
Rated Water Flow	m ³ /h		1.0	2.06	3.10	2.06	3.10
Water Pressure Drop	kPa		20	20	55	20	55
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
Noise level	dB(A)		48	50	55	50	55
Sizing Guide							
Net Dimensions (L×W×H)	mm		1187×418×805	1287×448×904	1187×488×1456	1287×448×904	1187×488×1456
Packed Dimensions (L×W×H)	mm		1217×463×920	1317×493×1020	1317×538×1570	1317×493×1020	1217×538×1570
Net Weight	kg		90	110	145	110	145
Gross Weight	kg		115	125	160	125	160
Loading Quantity 20GP/40HC			34/68	33/66	18/36	33/66	18/36

Rated Test Conditions:

Heating¹: Ambient Temp 7°C/6°C (DB/WB), Water-In/Out Temp 30°C/35°C

Heating²: Ambient Temp 7°C/6°C (DB/WB), Water-In/Out Temp 47°C/55°C

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

HP32 SERIES FULL DC INVERTER HEATING & COOLING HEAT PUMP

SPECIFICATIONS



Model		HP1-6-M	HP1-10-M	HP1-14-M	HP1-18-M	HP3-10-M	HP3-14-M	HP3-18-M	HP3-24-M	
Container loading (20GP/40HQ)		40/88	40/88	40/88	34/80	40/88	40/80	34/80	34/80	
Power Supply		220-240V~/50/60Hz					380-415V/3N~/50/60Hz			
Heating ¹	Capacity	kW	2.50-8.30	4.20-12.20	5.30-16.50	6.20-19.80	4.20-12.20	5.30-16.60	6.20-19.80	6.80-25.90
	Input Power	kW	0.57-1.92	0.86-2.88	1.15-4.15	1.36-5.28	0.86-2.88	1.15-4.15	1.36-5.28	1.78-4.15
	Input Current	A	2.53-8.52	3.82-12.77	5.10-18.41	6.10-23.67	1.46-4.89	1.86-6.70	2.31-8.96	2.87-6.70
Heating ²	Capacity	kW	2.30-7.62	3.85-11.20	4.90-15.10	6.30-19.90	3.85-11.20	4.90-15.10	6.30-19.90	6.90-26.10
	Input Power	kW	0.75-2.61	1.13-3.75	1.65-5.25	1.65-6.82	1.13-3.75	1.65-5.25	1.65-6.82	1.95-8.55
	Input Current	A	3.32-11.58	5.01-16.6	7.32-23.30	7.40-30.56	1.92-6.37	1.67-8.47	2.80-11.58	3.15-13.80
Cooling	Capacity	kW	1.80-7.10	2.60-10.30	4.50-13.50	5.50-17.50	2.60-10.30	4.50-13.50	5.50-17.50	5.20-20.30
	Input Power	kW	0.61-2.43	0.91-3.65	1.45-4.85	1.65-6.25	0.91-3.65	1.45-4.85	1.65-6.25	1.95-8.20
	Input Current	A	2.71-10.78	4.03-16.19	6.43-21.52	7.40-28.02	1.55-6.2	2.34-7.82	2.80-10.61	3.15-13.23
SCOP (Water Temp. At 35°C)		5.14	4.55	4.58	4.61	4.59	4.62	4.64	4.58	
SCOP (Water Temp. At 55°C)		3.37	3.41	3.39	3.41	3.44	3.44	3.42	3.42	
Basic Parameters										
Rated Input Power	kW	2.71	3.83	6.2	7.5	3.83	6.2	7.5	10	
Rated Input Current	A	12	17	27.5	35	6.5	10.5	13	17	
CO ₂ Equivalent	/	0.84t	1.21t	1.89t	2.36t	1.21t	1.89t	2.36t	2.36t	
Maximum Allowable Pressure	MPa	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
IP Class	/	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	
Max. Outlet Water Temp.	°C	60	60	60	60	60	60	60	60	
Operating Ambient Temperature	°C	-25 ~ 45	-25 ~ 45	-25 ~ 45	-25 ~ 45	-25 ~ 45	-25 ~ 45	-25 ~ 45	-25 ~ 45	
Water Piping Connections	mm	G1	G1	G1-1/4	G1-1/2	G1	G1-1/4	G1-1/2	G1-1/2	
Rated Water Flow	m ³ /h	1.1	1.75	2.52	3.2	1.75	2.52	3.2	4.12	
Water Pressure Drop	KPa	25	27	30	32	27	30	32	35	
Noise level	dB(A)	50	51	55	56	51	55	56	58	
Sizing Guide										
Net Dimensions (L×W×H)	mm	1100×445×850	1100×445×850	1110×480×850	1110×445×1450	1100×445×850	1110×480×850	1110×445×1450	1110×445×1450	
Packed Dimensions (L×W×H)	mm	1160×530×1010	1160×530×1010	1160×565×1010	1170×530×1610	1160×530×1010	1160×565×1010	1170×530×1610	1170×530×1610	
Net Weight	kg	102	107	124	151	107	124	151	160	

Rated Test Conditions:

Heating¹: Ambient Temp 7°C / 6°C (DB/WB), Water-In/Out Temp 30°C / 35°C

Heating²: Ambient Temp 7°C / 6°C (DB/WB), Water-In/Out Temp 47°C / 55°C

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

HEAT PUMP SPLIT

SPECIFICATIONS

INDOOR UNIT



Indoor Unit Model	HP1-10-SI	HP1-10-SI (3kW heater)	HP3-10-SI (6kW heater)	HP3-10-SI (9kW heater)	HP1-16-SI	HP1-16-SI (3kW heater)	HP3-16-SI (6kW heater)	HP3-16-SI (9kW heater)
Indoor Unit Power	10kW	10kW (3kW heater)	10kW (6kW heater)	10kW (9kW heater)	16kW	16kW (3kW heater)	16kW (6kW heater)	16kW (9kW heater)
Power supply	220-240V-50Hz		380-415V 3N-50Hz		220-240V-50Hz		380-415V 3N-50Hz	
Rated input	100W	3100W	6100W	9100W	100W	3100W	6100W	9100W
Rated Current	0.5A	13.5A	9.0A	13.5A	0.5A	13.5A	9.0A	13.5A
Norminal capacity	Refer to the technical data				Refer to the technical data			
Dimensions(W×H×D)[mm]	420×790×270				420×790×270			
Packing(W×H×D)[mm]	530×1035×355				530×1035×355			
Heat exchanger	Plate heat exchanger				Plate heat exchanger			
Electric heater	/	3kW	6kW	9kW	/	3kW	6kW	9kW
Internal water volume	5.0L				5.0L			
Rated water pressure	0.3MPa				0.3MPa			
Filter mesh	80				80			
Min. water flow (flow switch)	13L/min				13L/min			
Pump								
Type	DC inverter				DC inverter			
Max. head	9m				9m			
Power input	5-90W				5-90W			
Expansion vessel								
Volume	8L				8L			
Max. operating pressure	0.3MPa(g)				0.3MPa(g)			
Pre-charge pressure	0.1MPa(g)				0.1MPa(g)			
Weight								
Net weight	38.0kg	41.0kg	42.0kg	42.0kg	39.0kg	42.0kg	43.0kg	43.0kg
Gross weight	44.0kg	47.0kg	48.0kg	48.0kg	45.0kg	48.0kg	49.0kg	49.0kg
Connections								
Refrigerant gas/liquid side	Φ15.9/Φ9.52				Φ15.9/Φ9.52			
Water inlet/outlet	R1"				R1"			
Drain connection	DN25				DN25			
Operation range								
Outlet water(heating model)	+25 ~ +65°C				+25 ~ +65°C			
Outlet water(cooling model)	+5 ~ +20°C				+5 ~ +20°C			
Domestic hot water	+20 ~ +60°C				+20 ~ +60°C			
Ambient temperature	+5 ~ +35°C				+5 ~ +35°C			
Water pressure	0.1 - 0.3MPa				0.1 - 0.3MPa			

HEAT PUMP SPLIT

SPECIFICATIONS

OUTDOOR UNIT



Outdoor Unit Model	HPI-08-SO	HPI-10-SO	HPI-12-SO	HPI-14-SO	HPI-16-SO	HP3-12-SO	HP3-14-SO	HP3-16-SO
Outdoor Unit Power	8kW	10kW	12kW	14kW	16kW	12kW	14kW	16kW
Power supply	220-240V-50Hz					380-415V 3N-50Hz		
Rated power input	3300W	3600W	5400W	5800W	6200W	5400W	5800W	6200W
Rated Current	15.5A	17.0A	25.5A	27.5A	29.5A	9.0A	9.5A	10.0A
Norminal capacity	Refer to the technical data					Refer to the technical data		
Dimensions(W×H×D)[mm]	1010×860×494					1010×860×494		
Packing(W×H×D)[mm]	1135×970×530					1135×970×530		
Fan motor	DC motor / Horizontal					DC motor / Horizontal		
Compressor	DC inverter dual rotary					DC inverter dual rotary		
Heat exchanger	Fin-coil					Fin-coil		
Refrigerant								
Type	R32					R32		
Quantity	1650g	1650g	1840g	1840g	1840g	1840g		
Weight								
Net weight	62.0kg	62.0kg	78.0kg	78.0kg	78.0kg	90.0kg		
Gross weight	75.0kg	75.0kg	90.5kg	90.5kg	90.5kg	102.5kg		
Connections								
Liquid side	Ø9.52					Ø9.52		
Gas side	Ø15.9					Ø15.9		
Drain connection	DN32					DN32		
Max. piping length	30m					30m		
Max. difference in height	20m					20m		
Refrigerant to be added	38g/m					38g/m		
Operation ambient temperature range								
Heating mode	-25 ~ +35°C					-25 ~ +35°C		
Cooling mode	-5 ~ +43°C					-5 ~ +43°C		
Domestic hot water mode	-25 ~ +43°C					-25 ~ +43°C		