

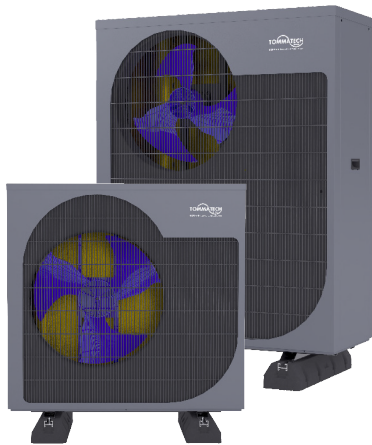
POWER SERIES HEAT PUMP

HP-TT-R290-MF-8.3

HP-TT-R290-TF-18.2

HP-TT-R290-TF-14.8

HP-TT-R290-TF-24



The POWER Series Monoblock Heat Pump combines high energy efficiency, reliable performance, and advanced heat pump technology in a compact system. Thanks to its monoblock design, no indoor unit is required, reducing both installation effort and space requirements.

Available in capacities ranging from 8.3 kW to 24 kW, the series is ideal for residential buildings and small commercial applications. Full DC Inverter technology precisely adjusts the output to match demand, ensuring maximum efficiency and comfort.

The environmentally friendly R290 refrigerant enables an A+++ energy efficiency rating and flow temperatures of up to 75°C. The heat pump operates reliably in outdoor temperatures ranging from -25°C to +43°C, making it suitable for both space heating and domestic hot water production.

A 5-inch LCD touchscreen, integrated Wi-Fi, remote access, scheduling functions, intelligent fault diagnostics, SG-Ready capability, and PV integration provide maximum user convenience. Quiet operation and energy-efficient performance help reduce

Product Features



Cooling



Heating



Hot Water



Energy
Class



Refrigerant



Economical



Remote
Control



SG-READY



All in One
Device



High
Efficiency



Full DC Inverter
Technology



Automatic Outlet
Water Temperature

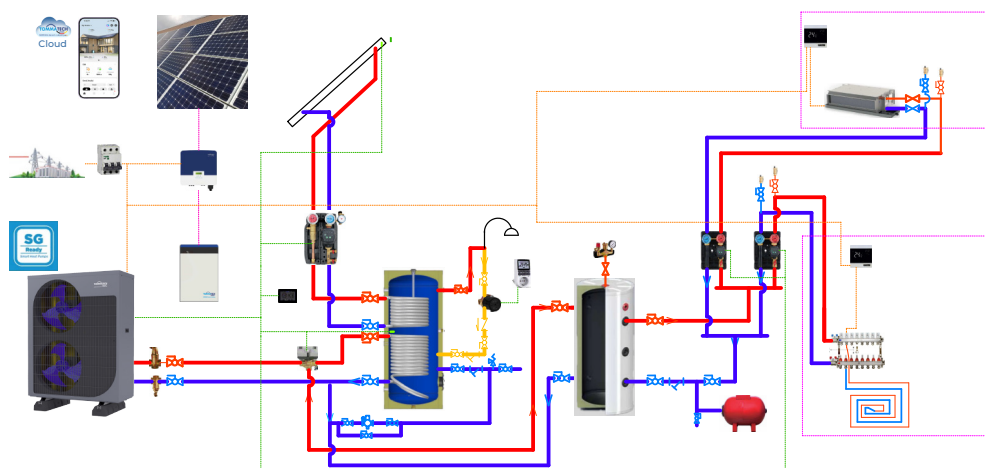


Low Noise
Level



Cascade System
(8 Units)

Wiring Diagram



Model	HP-TT-R290-MF-8.3	HP-TT-R290-TF-14.8	HP-TT-R290-TF-18.2	HP-TT-R290-TF-24
Refrigerant	R290			
Heating Condition - Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):30/35°C				
Heating Capacity Range (kW)	3.3 ~ 8.3	5.9 ~ 14.8	7.2 ~ 18.2	9.6 ~ 24.0
Heating Power Input Range(kW)	0.64 ~ 2.18	1.13 ~ 3.83	1.38 ~ 4.65	1.83 ~ 6.30
COP Range	3.81 ~ 5.17	3.86 ~ 5.22	3.91 ~ 5.22	3.81 ~ 5.24
DHW Condition-Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):50/55°C				
Heating Capacity Range (kW)	3.7 ~ 7.4	6.6 ~ 13.2	7.2 ~ 16.2	8.8 ~ 19.6
Heating Power Input Range(kW)	0.79 ~ 2.10	1.41 ~ 3.73	1.54 ~ 4.58	1.89 ~ 5.60
COP Range	3.52 ~ 4.69	3.54 ~ 4.67	3.54 ~ 4.67	3.50 ~ 4.66
Cooling Condition - Ambient Temp.(DB/WB):35/24°C, Water Temp.(In/Out):12/7°C				
Cooling Capacity Range (kW)	2.4~5.8	4.3~10.8	5.6~14.1	6.9~17.0
Cooling Power Input Range(kW)	0.79~2.19	1.39~3.99	1.80~5.38	2.21~6.49
ErP Level (35°C)	A+++			
ErP Level (55°C)	A++			
Sound pressure level (dB(A)) at 1 meter	44/44	44/45	41/43	42/43
Power supply	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz		
Max. power input(kW)	3,1	5,2	7,1	8,8
Max. current (A)	14,2	9,8	13,5	14,8
Electric Heater Nominal Input (kW)	/			
Fuse or circuit breaker (A)	20	16	20	20
Wire diameter mm²	2.5mm²	2.5mm²	4mm²	4mm²
Diameter of pipe (mm)	1"	11 1/4"	1 1/4"	1 1/2"
Water Flow(m3/h)	1,43	2,55	3,13	4,13
Water Pressure Drop (max) kPa	30	40	43	50
Net Weight (kg)	112	138	165	220
Body size(W*D*H) (mm)	1084×470×814	1084×490×1064	1076×490×1376	1163×490×1576
Packing size(W*D*H)(carton)	1110*495*815	1110*505*1065	1110*505*1375	1190*505*1580
IP Grade (Level of protection)	IPX4			
Anti-electric shock Rate	I			
Compressor	Twin Rotary Compressor			
Air-Side Heat Exchanger	Finned Heat Exchanger			
Water-Side Heat Exchanger	Plate Heat Exchanger			
Circulation Pump	Frequency-Controlled Internal Circulation Pump			
Fan Motor	DC Fan Motor			
Expansion Vessel Volume (L)	/			
Built-in Domestic Hot Water Tank	/			
Built-in 3-Way Valve	/			
Control Panel	5 inch Colored Touch Screen			
Operation Ambient Temp. (°C)	23-43			
Max. Outlet Water Temp.	75			
Heating operating water temp. (°C)	15~70			
Cooling operating water temp. (°C)	7~35			
DHW operating water temp. (°C)	28~65			