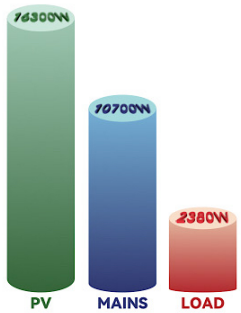
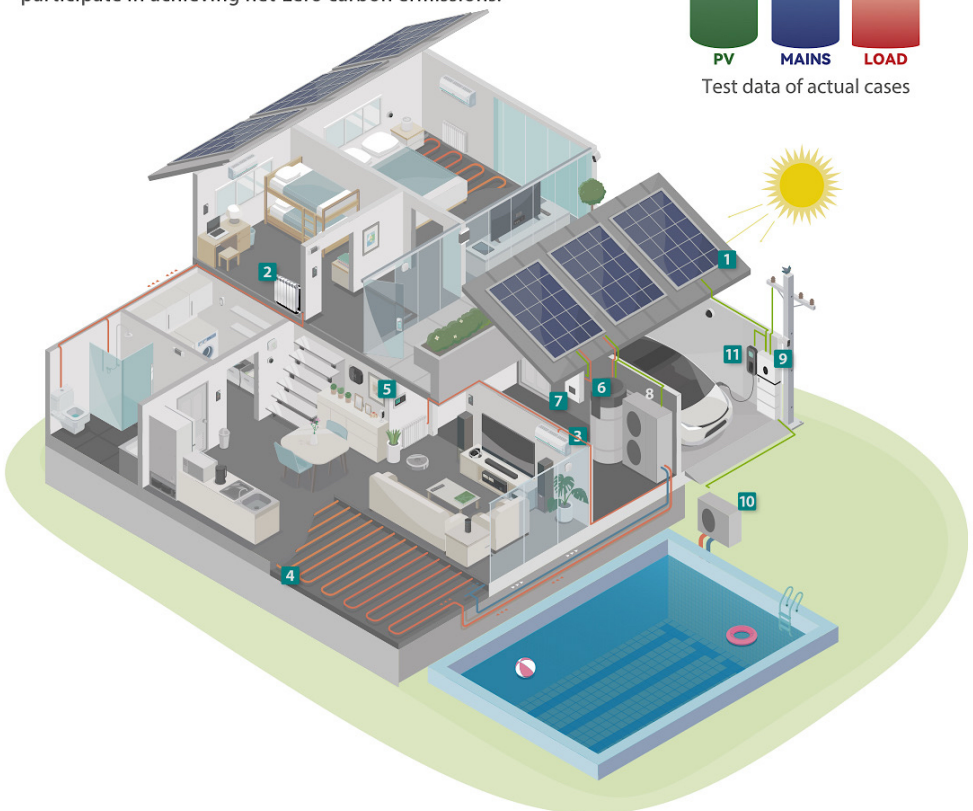
One Stop Zero Carbon House Solutions

Leading the way to a green planet and a carbon-free future, Pump star is committed to implementing green and low-carbon development while promoting high-quality growth. Pump star has always adhered to its mission "**Green world, better life**."

The applications of the Pump star system not only help reduce overall electricity and fuel expenses but also offer the opportunity to participate in achieving net-zero carbon emissions.



Test data of actual cases



1. Photovoltaic
2. Radiator
3. Fan Coil
4. Underfloor Heating
5. Pump Central controller
6. Buffer tank, Dual Coil
7. Hydraulic Module
8. Heat pump
9. Battery Storage
10. Pool heat pump
11. Charging Station

Zero Carbon House

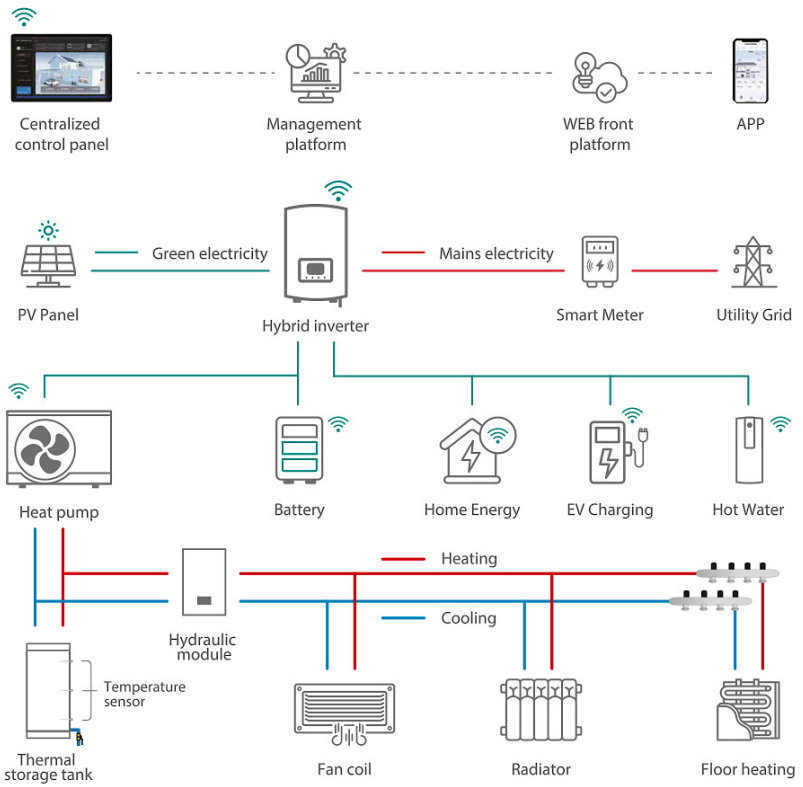


System Integration

Intelligent Central Control

Cooling, Heating, and Power Storage

System-aided design





R32 DC Inverter

Monoblock Heat Pump

ECO FRIENDLY R32	MMHP-008B1	MMHP-012B1/B2	MMHP-016B1/B2	MMHP-020B2	MMHP-026B2
A+++ Heating [1]					
Capacity (kW)	2.5~8.3	4.2~12.2	5.3~16.5	6.2~20.5	6.5~26.1
Input Power (kW)	0.57~1.92	0.86~2.88	1.15~4.15	1.36~5.28	1.78~6.45
Input Current (A)	2.53~8.52	3.82~12.77	5.1~18.41	2.31~8.96	2.87~10.35
A++ Heating [2]					
Capacity (kW)	2.3~7.62	3.85-~11.2	4.9~15.1	6.3~19.9	6.9~26.10
Input Power (kW)	0.75~2.61	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	7.32~23.3	2.8~11.58	3.15~13.8
SCOP (Water Temp. At 35°C)	4.92	4.55	4.58	4.67	4.85
SCOP (Water Temp. At 55°C)	3.37	3.41	3.39	3.45	3.42
Refrigerant Weight/GWP (kg)	R32/1.4/675	R32/1.8/675	R32/2.8/675	R32/3.5/675	R32/3.5/675
CO^2 Equivalent	0.84t	1.21t	1.89t	2.36t	2.36t
Product Size (mm)	1100*495*850	1100*495*850	1110*520*850	1110*485*1450	1110*485*1450
Package Size (mm)	1140*530*1000	1140*530*1000	1140*565*1000	1140*520*1600	1140*520*1600
Product Weight (kg)	102	107	124	155	160
Packed Weight (kg)	114	119	136	175	177

[1] Nominal Heating (Max) (A7/6°C, W30/35°C) A+++

[2] Nominal Heating (Max) (A7/6°C, W47/55°C) A++

* Please refer to the latest product manual for updated parameters

Panasonic DC inverter

Panasonic compressor

R32 refrigerant, environment friendly

High efficiency water pump

3 Minutes defrosting tech

Heating, cooling and DHW



R32 Pool Heat Pump

Pool Heater Residential

Model	MSHP-007C1	MSHP-010C1	MSHP-013C1	MSHP-017C1	MSHP-021C1	MSHP-028C1	MSHP-035C1	MSHP-028C3	MSHP-035C3
Rated Voltage/Frequency (V~Hz)	220-240V~ / 60Hz							380-415V/3N~/60Hz	
Weight / GWP (kg)	R32/0.35/675	R32/0.43/675	R32/0.72/675	R32/0.79/675	R32/0.85/675	R32/1.15/675	R32/1.3/675	R32/1.15/675	R32/1.15/675
Heating capacity at air 26 °C, humidity 80%, water 26 °C in, 28 °C out									
Capacity (kW)	1.75~7.62	2.34~10.21	3.02~13.12	3.79~16.52	4.83~21.01	6.49~28.23	8.94~35.0	6.53~28.42	8.97~35.1
Power Input (kW)	0.13~1.10	0.17~1.47	0.22~1.88	0.28~238	0.36~3.03	0.48~4.06	0.56~5.16	0.48~4.08	0.56~5.16
Input Current (A)	0.59~5	0.77~6.69	1~8.55	1.28~10.82	1.64~13.77	2.18~18.45	2.55~23.45	0.86~7.28	1~9.22
COP	6.91~13.52	6.93~13.54	6.98~13.61	6.95~13.57	6.94~13.56	6.95~13.57	6.97~15.98	6.96~13.59	6.97~16.01
Heating capacity at air 15 °C, humidity 70%, water 26 °C in, 28 °C out									
Capacity (kW)	1.33~5.74	1.76~7.62	2.23~9.73	2.87~12.61	3.59~15.74	4.77~20.68	6.4~25.5	4.79~20	6.4~25.5
Power Input (kW)	0.18~1.16	0.23~1.54	0.29~1.95	0.38~254	0.47~3.18	0.63~4.17	0.84~5.2	0.63~4.18	0.84~5.2
Input Current (A)	0.82~5.27	1.05~7	1.32~8.86	1.73~11.55	2.14~14.45	2.86~18.95	3.82~23.64	1.12~7.46	1.5~9.3
COP	4.94~7.53	4.95~7.58	4.98~763	4.96~7.61	4.95~7.57	4.96~7.57	4.97~7.61	4.97~7.59	4.97~7.61
Cooling capacity at air 35 °C, water 29 °C in, 27 °C out									
Capacity (kW)	1.12~4.06	1.38~5.36	1.82~6.88	2.24~8.86	2.86~11.07	3.64~14.52	4.9~19.3	3.66~14.58	4.9~19.3
Power Input (kW)	0.17~1.15	0.21~1.51	0.27~1.88	0.34~247	0.44~3.11	0.55~4.04	0.73~5.08	0.55~4.04	0.73~5.08
Input Current (A)	0.77~5-23	0.95~6.86	1.23~8.55	1.55~11.23	2.00~14.14	2.50~18.36	3.32~23.09	0.98~7.21	1.3~9.08
EER	3.52~6.48	3.54~6.51	3.65~6.62	3.58~6.58	3.56~6.57	3.59~6.61	3.8~6.7	3.61~6.63	3.8~6.7
Net weight (kg)	42	43	53	54	58	86	98	88	98
Net Dimensions(L*W*H) (mm)	864*349*592mm		925*364*642mm			1084*399*737mm			
Package Dimensions(L*W*H) (mm)	930*400*640mm		990*435*760mm			1146*460*862mm			
Water Proof Level	IPX4								
Heat Exchanger	Titanium								
Compressor	Mitsubishi								
Casing Material	Aluminum + ABS								

* Please refer to the latest product manual for updated parameters

With MODBUS Communication

Smart WiFi function

Intellgently Defrost

High pressure protection function

R32 refrigerant environment friendly or eco friendly

Full Inverter, constant water temperature