

# AQUAVERA SERIES POOL HEAT PUMP

HP-POL-MF-R290-24-P    HP-POL-TF-R290-33-P



The AQUAVERA Series Pool Heat Pump combines eco-friendly R290 refrigerant technology with high energy efficiency for year-round pool heating. Thanks to Full DC Inverter technology, it automatically adjusts its output to match demand, reducing energy consumption and operating costs.

The intelligent control of the compressor and fan ensures a stable water temperature, quiet operation, and reliable performance. The integrated SG-Ready function enables seamless integration with modern energy management systems, as well as solar and smart grid solutions.

A user-friendly touchscreen display allows easy control of temperature, operating modes, and timer settings. High-quality materials, robust construction, and advanced sound insulation ensure long service life and low noise levels.

The AQUAVERA Series combines performance, sustainability, and intelligent control in a compact solution for residential and commercial swimming pools.

## Product Features



Refrigerant



Economical



Remote Control



SG-READY



High Efficiency

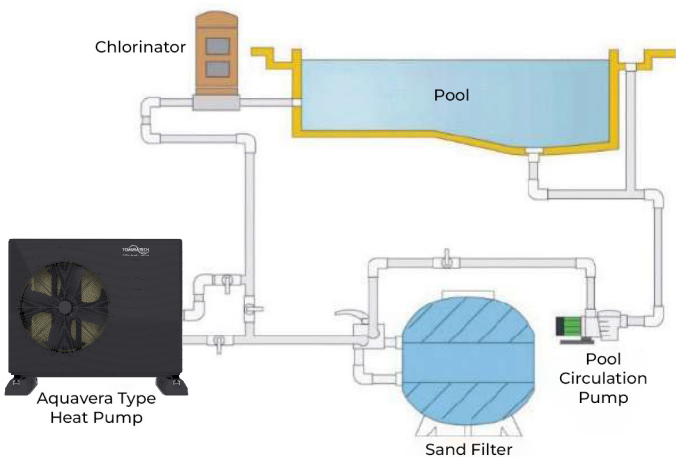


Full DC Inverter Technology



Low Noise Level

## Wiring Diagram



| Model                                                                        | HP-POL-MF-R290-24-P                                   | HP-POL-TF-R290-33-P |
|------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|
| Refrigerant                                                                  | R290                                                  |                     |
| Heating Condition - Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):30/35°C |                                                       |                     |
| Heating Capacity Range (kW)                                                  | 24.2~5.3                                              | 33.1~8.5            |
| Heating Power Input Range(kW)                                                | 3.51~0.28                                             | 4.93~0.46           |
| COP Range                                                                    | 6.9~18.7                                              | 6.7~18.5            |
| DHW Condition- Ambient Temp.(DB/WB): 7/6°C, Water Temp.(In/Out):50/55°C      |                                                       |                     |
| Heating Capacity Range (kW)                                                  | 18.0~3.8                                              | 25.2~7.5            |
| Heating Power Input Range(kW)                                                | 4.0~0.52                                              | 5.36~1.15           |
| COP Range                                                                    | 4.5~7.3                                               | 4.7~6.5             |
| Cooling Condition - Ambient Temp.(DB/WB):35/24°C, Water Temp.(In/Out):12/7°C |                                                       |                     |
| Cooling Capacity Range (kW)                                                  | 13                                                    | 17,5                |
| Cooling Power Input Range(kW)                                                | 3,47                                                  | 4,06                |
| ErP Level (35°C)                                                             | /                                                     |                     |
| ErP Level (55°C)                                                             | /                                                     |                     |
| Sound pressure level (dB(A)) at 1 meter                                      | 44~56                                                 | 48~60               |
| Power supply                                                                 | 230V/1 Ph/50Hz/60Hz                                   | 380V/3Ph/50Hz/60Hz  |
| Max. power input(kW)                                                         | 5,5                                                   | 7                   |
| Max. current (A)                                                             | 25,2                                                  | 12,5                |
| Electric Heater Nominal Input (kW)                                           | /                                                     |                     |
| Fuse or circuit breaker (A)                                                  | 32                                                    | 20                  |
| Wire diameter mm²                                                            | 3*4                                                   | 5*4                 |
| Diameter of pipe (mm)                                                        | 2"                                                    |                     |
| Water Flow(m3/h)                                                             | 10,1                                                  | 14,2                |
| Water Pressure Drop (max) kPa                                                | 19                                                    | 20                  |
| Net Weight (kg)                                                              | 86                                                    | 120                 |
| Body size(W*D*H) (mm)                                                        | 1130*480*816                                          | 1235*490*980        |
| Packing size(W*D*H)(carton)                                                  | 1195*485*825                                          | 1303*497*975        |
| 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                                                    | PVC-Housed Heat Exchanger With a Spiral Titanium Tube |                     |
| Circulation Pump                                                             | /                                                     |                     |
| Fan Motor                                                                    | DC Fan Motor                                          |                     |
| Expansion Vessel Volume (L)                                                  | /                                                     |                     |
| Built-in Domestic Hot Water Tank                                             | /                                                     |                     |
| Built-in 3-Way Valve                                                         | /                                                     |                     |
| Control Panel                                                                | 4 inch Colored Touch Screen                           |                     |
| Operation Ambient Temp. (°C)                                                 | -20 ~43                                               |                     |
| Max. Outlet Water Temp.                                                      | 40                                                    |                     |
| Heating operating water temp. (°C)                                           | 9 ~40                                                 |                     |
| Cooling operating water temp. (°C)                                           | 9 ~35                                                 |                     |
| DHW operating water temp. (°C)                                               | /                                                     |                     |