



New Zero Carbon Solutions
The Most Potential Renewable Energy Alternatives on the Market

Reduce your carbon footprint and help you
save 80% on energy consumption

R290 Eco Heat Series HEAT PUMP						
Model	PD30-CRL-DC-E/S	PD40-CRL-DC-E/S	PD50-CRL-DC-E/S	PD50-CRL-DC-E	PD60-CRL-DC-E	
Heating Condition - Ambient Temp.(DB/WB)7/6°C,Water Temp.(In/Out):30/35°C						
Heating capacity range (kw)	3.3~8.3	4.5~11.4	5.9~14.8	5.9~14.8	8.8~22.0	
Heating input range (kw)	0.64~2.18	0.85~2.95	1.13~3.83	1.13~3.83	1.68~5.77	
Cop range	3.81~5.17	3.86~5.29	3.86~5.22	3.86~5.22	3.81~5.24	
DHW Condition-Ambient Temp.(DB/WB)7/6°C,Water Temp.(In/Out):15/55°C						
Heating Capacity Range (kW)	3.7~7.4	5.2~10.2	6.6~13.2	6.6~13.2	7.8~17.6	
Heating Power Input Range(kW)	0.79~2.10	1.10~2.87	1.41~3.73	1.41~3.73	1.67~5.01	
COP Range	3.52~4.69	3.55~4.71	3.54~4.67	3.54~4.67	3.51~4.66	
Cooling Condition - Ambient Temp.(DB/WB)35/24°C,Water Temp.(In/Out):12/7°C						
Cooling Capacity Range (kW)	2.4~5.8	3.3~8.2	4.3~10.8	4.3~10.8	6.2~15.3	
Cooling Power Input Range(kW)	0.79~2.19	1.08~3.07	1.39~3.99	1.39~3.99	1.99~5.60	
EER Range	2.65~3.04	2.67~3.06	2.71~3.10	2.71~3.10	2.73~3.12	
ErP Level (35°C)	A+++	A+++	A+++	A+++	A+++	
Refrigerant	R290					
Power supply	230V/1Ph/50Hz/60Hz			380V/3Ph/50-60Hz		
Diameter of pipe (mm)	DN25	DN25	DN25	DN25	DN25	
Max water head (m)	9	9	9	9	12	
Noise dB(A)	≤47	≤50	≤52	≤52	≤53	
Net Weight (kg)	105	115	160	160	165	
Net Dimension (L/W/H) mm	1080×460×820	1080×460×960	1080×480×1060	1080×480×1060	1080×480×1372	
Operation Ambient Temp. (°C)	-25~43					
Operating water temperature (°C)	20~65(DHW)					
Operating water temperature (°C)	20~70(Heating)					
Operating water temperature (°C)	7~35(Cooling)					

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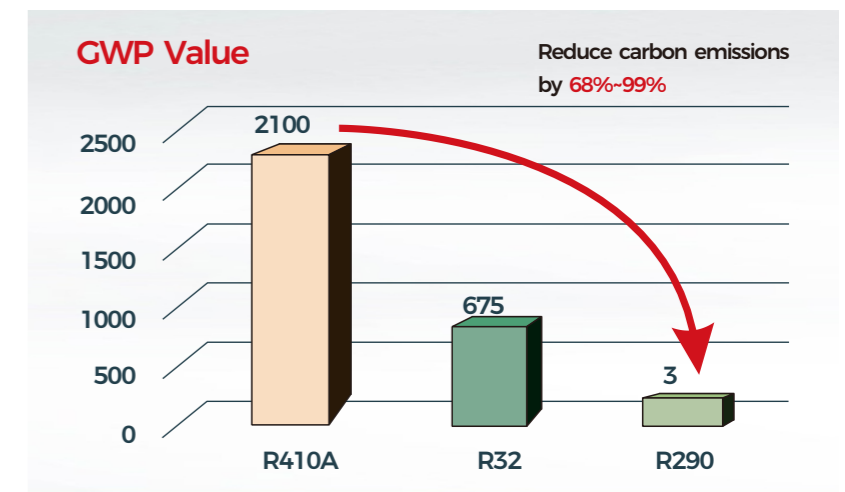
Mail : info@poolworldhp.com

Global after-sales : technical@poolworldhp.com

Web : www.poolworldheatpump.com

R290 Zero Carbon Refrigerant

R290 refrigerant can be obtained directly from natural gas. Due to its low GWP value, high heat exchange efficiency, good stability, zero carbon emissions, and low charging volume, it is considered by the industry to be the most environmentally friendly and most potential refrigerant in the world.



◆ FEATURES

- (1) Triple supply of heating, cooling and DHW
- (2) Ultra High Efficiency Level A+++ at 35°C and 55°C
- (3) SCOP as high as 5.29
- (4) Noise as low as 47dB
- (5) Forced heating at -25°C low temp, max outlet water 75°C
- (6) Large 5" LCD touchscreen display with 13 language options
- (7) Support free Wi-Fi and IoT remote control
- (8) Support Rs485, Modbus protocol and cascade function
- (9) Support linkage control with thermostat

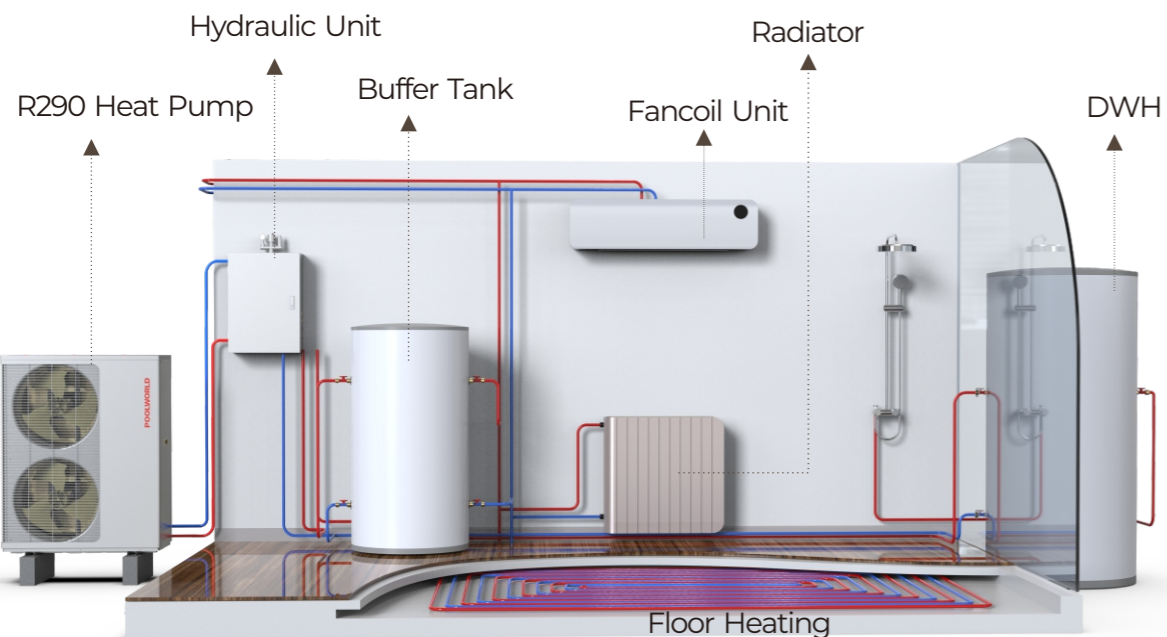


Eco Heat Series

Thanks to the excellent performance of R290 refrigerant, this heat pump can work stably and efficiently in extremely cold regions of -25°C and output 75°C hot water.

Its energy efficiency can reach A+++ at 35°C and 55°C, and the COP is as high as 5.29, which fully guarantees users' needs for heating, cooling and DHW throughout the year, and helps users save the most energy with the least investment.

HIGHLIGHTS OF ECO HEAT SERIES



FIN HEAT EXCHANGER

Hydrophilic coating, salt spray resistance, strong oxidation resistance, not easy to frost during heating operation in winter.

SCREWLESS DESIGN

DC INVERTER BRUSHLESS FAN MOTOR

SILENT FAN

HIGHLY FULL DC INVERTER COMPRESSOR

EXPANSION TANK

SHIMGE DC INVERTER WATER PUMP

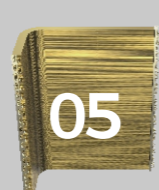
PLATE HEAT EXCHANGER

INDEPENDENT CAVITY

The independent cavity design of the compressor and the sound insulation cotton tightly wrapped on all sides further cut off the transmission of noise.

THICKENED CHASSIS

High-strength chassis, no high and low frequency resonance.



MULTIFUNCTION LCD TOUCH CONTROLLER

It can be installed anywhere in the house, and the multi-language function allows users to easily switch operating modes, set temperatures, view parameter tables, historical records, etc.



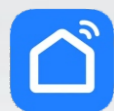
- ◆ Built-in Wi-Fi module, App control
- ◆ 5-inch LCD Touch Screen Display
- ◆ Accurate Temp Control to $\pm 0.1^{\circ}\text{C}$
- ◆ Support RS485 and Modbus Protocol

- ◆ Operating Power Curve
- ◆ Inlet and Outlet Water Temp Curve
- ◆ SG-Ready Function
- ◆ Cascade Function Max 8units



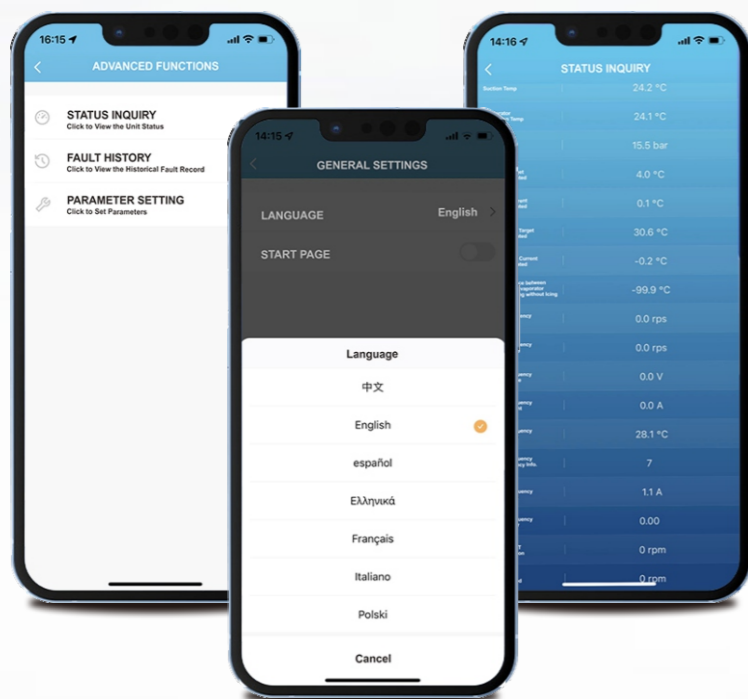
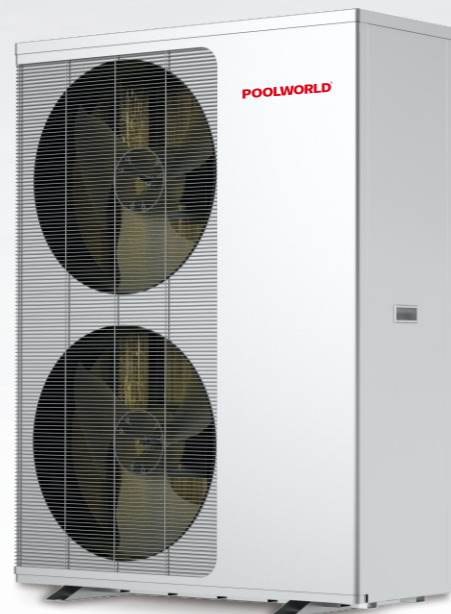
13 Language Options

REMOTE CONTROL SOLUTIONS



Remote Free Wi-fi Function

With a built-in WIFI module, users can directly control the operation of the unit and view parameters anytime and anywhere through the "Smart Life" App, such as Timer Setting, Temperature Adjustment, Mode Switching, Language Selection, etc.



- Modes
- Parameters
- Timer
- Operating Status
- Languages
- History Record
- Real-time Monitoring

IOT CUSTOMER MANAGEMENT PLATFORM

POOL WORLD's IoT customer management platform can effectively save labor costs for dealers. It can be connected with WIFI or DUT to realize remote monitoring of data and record all the operating parameters of the units and synchronize it to the management console of dealers and manufacturers. If the heat pump has an error report, the dealer can quickly provide users with the best solutions according to this report.

Business Management

- Project Management
- Device Management
- Fault Management
- User Management
- Authority Management
- Product Management
- Institution Management
- Distributor Management

Real-time Monitoring

- Project Monitoring View
- Device List
- Monitoring Page

Data Statistics and Analysis

- Project Statistics
- Device Statistics
- Fault Statistics
- Project Monitoring View
- Data Statistics

After-sales Management

- Customer Complaint
- Customer Maintenance
- Order Management

