

**FHD-335**

**FibroPool® MEA**

# SWIMMING POOL HEAT PUMP



Designed and engineered  
in the USA

[WWW.FIBROPOOL.COM](http://WWW.FIBROPOOL.COM)  
[WWW.FIBROPOOL.AE](http://WWW.FIBROPOOL.AE)

| MODEL:FHD-335               |                 |
|-----------------------------|-----------------|
| Heating Capacity            | 35.0kW          |
| (A24°C/W26°C)               | 119500 BTU/h    |
| COP                         | 5.5             |
| Input Power                 | 6.11kW          |
| Input Current               | 11.6A           |
| Cooling Capacity            | 24.0kW          |
| (A43°C/W30°C)               | 81900 BTU/h     |
| COP                         | 3.0             |
| Input Power                 | 8.0kW           |
| Input Current               | 15.2A           |
| Power Supply                | 380VAC/3PH/50Hz |
| Compressor                  | Rotary          |
| Air Flow                    | Vertical        |
| Water Inlet/Outlet          | 2"              |
| Rated Water Flow            | 9.63m³/h        |
| Water Pressure Drop         | 35kpa           |
| Refrigerant Type            | R410A/1700gx2   |
| Max. Discharge Pressure     | 4.2MPa          |
| Max.Suction Pressure        | 1.5MPa          |
| Water Proof Class           | IPX4            |
| Electrical Insulation Class | I               |
| Net Dimension(LxWxH)        | 1500×800×1080   |
| Net Weight                  | 240Kg           |
| Noise                       | 58dB(A)         |
| Air Temperature Range       | 5°C-50°C        |

● **Note**

(1)Heating: Outdoor air temperature:24°C/19°C, Outlet water Temperature:26°C

Cooling:Outdoor air temperature:43°C, Outlet water temperature:30°C, Input water temperature:32°C.

# Features and Benefits of FibroPool FHD Heat Pumps

## 1. Eco-Friendly and Cost-Effective Heating and Cooling

- **Advanced Refrigerant R410a:** Uses an environmentally friendly refrigerant to reduce carbon footprint and harmful gas emissions.
- **Hydrophilic Aluminum Foil Evaporator:** Enhances efficiency and durability.
- **Electric Expansion Valve:** Ensures optimal performance.
- **Harnessing Nature's Energy:** Transfers free energy from outside air to your pool, reducing heating costs by over 80%.
- **High Coefficient of Performance (COP):** Delivers a COP of over 5x, significantly more efficient than natural gas heating at only 80%.
- **Comprehensive Warranty:** 5 years for the compressor, 3 years for the heat exchanger, and 1 year for the heat pump body and other parts against manufacturing defects.

## 2. "IceMelt" Technology

- **Extended Swimming Season:** Operates in a wide range of temperatures from -5°C to +55°C.
- **Efficient in Freezing Conditions:** Continues to heat even in sub-zero temperatures, minimizing heat loss.
- **Versatile Temperature Control:** Heats or cools pool water to your desired refreshing temperature.
- **Auto-Defrost Feature:** Prevents ice buildup for uninterrupted operation.
- **Auto Mode Operation:** Set it and forget it for hassle-free use.

## 3. Durable and Efficient Heat Exchange System

- **High-Quality Titanium Pipe:** Spiral-threaded GR1 titanium pipe heat exchanger resists chemical corrosion and enhances durability.
- **Fast and Efficient Heating:** Heats water quickly and efficiently with 19mm diameter and 1.0mm wall thickness copper piping.
- **Longevity:** Designed to provide long-lasting performance without sacrificing efficiency.

## 4. User-Friendly Control Unit

- **Digital Display:** Bright, accurate, and easy-to-read display.
- **Convenient Settings:** Timer and temperature settings for customized operation.
- **Self-Diagnostics:** On-board diagnostics with error code display for easy troubleshooting.

## 5. Comprehensive Safety and Functionality

- **Dual Functionality:** Offers both heating and cooling functions.
- **Automated Operation:** Features auto operation, restart, and defrost for minimal user intervention.
- **Safety Protections:** Includes protections against insufficient water flow, high/low pressure, overload, and more.
- **Temperature Monitoring:** Measures inlet and outlet water temperatures for precise control.

## 6. Easy Installation

- **Optimized Design:** Simplified electrical wiring and hydraulic connections for quick setup.
- **Cost-Effective:** Saves time and reduces installation costs with its efficient design.

## 7. Ultra-Quiet Operation

- **Noise-Absorbing Structure:** Built with noise-resistant insulation foam.
- **Anti-Vibration Features:** Includes anti-vibration rubber feet for quieter operation.
- **Specialized Fan Design:** Equipped with a specially designed fan and PI bearing for reduced noise and increased lifespan.

# T3 Pool Heat Pump Models: Advanced Features and Benefits

## 1. Superior T3 Compressor Technology

- **State-of-the-Art Design:** T3 compressors are specially engineered for optimal performance in hot ambient temperatures.
- **High Efficiency:** Achieves maximum efficiency, ensuring lower energy consumption and reduced operational costs.
- **Quiet Operation:** Designed for minimal noise, providing a more pleasant poolside experience.
- **Enhanced Durability:** Built to withstand extreme conditions, ensuring long-lasting reliability and performance.

## 2. Enhanced Performance in High Temperatures

- **Reliable Heating:** Maintains consistent heating performance even in the hottest climates.
- **Extended Operation Range:** Functions efficiently in a broader temperature range, making it ideal for diverse geographic locations.

## 3. Additional Cooling Capabilities

- **Effective Cooling:** Provides superior cooling for pool water, ensuring comfort during peak summer temperatures.
- **Auto-Adjust Feature:** Automatically adjusts to optimal settings for both heating and cooling, based on ambient conditions

# FibroPool® MEA

WWW.FIBROPOOL.COM



WWW.FIBROPOOL.AE



Designed and engineered in the USA

We reserve the right to change all or part of the features of the articles or contents of this document, with out prior notice.