

FHD-345

FibroPool® MEA

SWIMMING POOL HEAT PUMP



Designed and engineered
in the USA

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MODEL:FHD-3170	
Heating Capacity	45.0kW
(A24°C/W26°C)	153600 BTU/h
COP	5.5
Input Power	7.64w
Input Current	14.5A
Cooling Capacity	30.0kW
(A43°C/W30°C)	102400 BTU/h
COP	3.0
Input Power	10.0kW
Input Current	19.0A
Power Supply	380VAC/3PH/50Hz
Compressor	Scroll
Air Flow	Vertical
Water Inlet/Outlet	2"
Rated Water Flow	12.04m³/h
Water Pressure Drop	35kpa
Refrigerant Type	R410A/1750gx2
Max. Discharge Pressure	4.2MPa
Max.Suction Presure	1.5MPa
Water Proof Class	IPX4
Electrical Insulation Class	I
Net Dimension(LxW×H)	1500×800×1080
Net Weight	260Kg
Noise	60dB(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

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