FHD-3105

FibroPool® MEA

SWIMMING POOL
HEAT PUMP

Designed and engieered
in the USA

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MODEL:FHD-3105	
Heating Capacity	105.0kW
(A24°C/W26°C)	358575 BTU/h
COP	5.5
Input Power	19.09kW
Input Current	36.3A
Cooling Capacity	75.0kW
(A43°C/W30°C)	255900 BTU/h
EER	3.0
Input Power	25.0kW
Input Current	47.5A
Power Supply	380VAC/3PH/50Hz
Compressor	Scroll
Air Flow	Vertical
Water Inlet/Outlet	3"
Rated Water Flow	30.09m3/h
Water Pressure Drop	30kpa
Refrigerant Type	R410A/4000g*2
Max. Discharge Pressure	4.2MPa
Max.Suction Presure	1.5MPa
Water Proof Class	IPX4
Electrical Insulation Class	I
Net Dimension(LxW×H)	1987*1055*1874
Net Weight	550Kg
Noise	65dB(A)
Air Temperature Range	5°C~53°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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