

FHD-213

FibroPool® MEA

SWIMMING POOL HEAT PUMP



Designed and engineered
in the USA

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MODEL:FHD-213		
Heating Capacity	①	13.0kW
(A24°C/W26°C)		44400 BTU/h
COP	①	5.5
Input Power	①	2.29kw
Input Current	①	10.4A
Cooling Capacity	②	9.0kW
(A43°C/W30°C)		30800 BTU/h
COP	②	3.0
Input Power	②	3.0kW
Input Current	②	13.6A
Power Supply		220VAC/1PH/50Hz
Compressor		Rotary
Fan Direction		Vertical
Water Inlet/Outlet		1_1/2"
Water Flow Volume		3.61m³/h
Water Pressure Drop		30kpa
Refrigerant Type		R410A/1250g
Max. Discharge Pressure		4.2MPa
Max.Suction Pressure		1.5MPa
Water Proof Class		IPX4
Electric Shock Protection		I
Net Dimension(LxW×H)		720×720×890
Net Weight		80Kg
Noise		52dB(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.

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