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> Aquastrong 75,000 BTU Inverter Swimming Pool Heat Pump, 21,000 Gallons Electric Pool Heater for Above Ground and Inground Pool, WiFi Capable Timer, Heating and Cooling Pool Heater 220V 75000 BTU

AQUASTRONG HEX075

Aquastrong 75,000 BTU Inverter Swimming Pool Heat Pump Instruction Manual

Model: HEX075

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Aquastrong 75,000 BTU Inverter Swimming Pool Heat Pump (Model: HEX075). This advanced heat pump is designed to efficiently heat and cool your pool water, extending your swimming season and enhancing your pool experience. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.

2. SAFETY INFORMATION

WARNING: Electrical installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Failure to do so may result in electric shock, fire, or other hazards.

- The unit requires a 220V hardwired electrical connection. It is not compatible with standard 110V outlets.
- A proper grounding rod must be installed and connected to the unit to prevent electrical hazards, especially when dealing with water.
- Ensure all plumbing connections are secure and leak-free before operating the unit.
- Do not operate the heat pump if any part is damaged or if water is present near electrical components.
- Keep children and pets away from the unit during operation.

3. PRODUCT OVERVIEW

The Aquastrong HEX075 Inverter Pool Heat Pump is a high-efficiency system designed for both heating and cooling swimming pools up to 21,000 gallons. Its inverter technology allows for precise temperature control and significant energy savings.



Figure 3.1: Front view of the Aquastrong HEX075 Inverter Pool Heat Pump.

Key Features:

- **Dual-Mode Operation:** Capable of both heating (47-104°F) and cooling (47-83°F) pool water.
- **High Efficiency:** Features full DC variable frequency technology with a 15.8 COP, offering up to 70% energy savings compared to traditional electric heaters.
- **Quiet Operation:** Operates at a low noise level of 53 dB, ensuring a peaceful pool environment.
- **Smart Control:** WiFi capable for remote control via a dedicated mobile application, alongside an integrated control panel.
- **Automatic Defrost:** Intelligent defrosting system activates every 40 minutes for 5 minutes, ensuring continuous operation in colder conditions.
- **Universal Compatibility:** Includes adapters for 1.25" & 1.5" hose connections, 1.5" adapter conversion kit, and 1.5" PVC pipe converter for versatile installation.

AQUASTRONG®

75,000 BTU Inverter Pool Heat Pump

15.8 COP

Up to 21,000 Gals Pool



Figure 3.2: Overview of the heat pump's capacity and efficiency.



Figure 3.3: Illustrates the ability to extend the swimming season.

4. SETUP

Proper installation is crucial for the safe and efficient operation of your heat pump. It is recommended that installation be performed by a professional.

4.1 Electrical Connection

- The Aquastrong HEX075 requires a 220V/50-60Hz power supply. This unit is designed for hardwired connection.
- A dedicated 30A circuit breaker is required.
- Install a grounding rod and connect it to the unit to ensure proper electrical grounding.
- Consider installing a quick disconnect box for easy power cutoff when needed.

4.2 Plumbing Connection

- Connect the pool pump's return line to the heat pump's "Water Inlet".
- Connect the heat pump's "Water Outlet" to the pool's return jet.

- Use the provided universal adapter kit to match your existing pool plumbing (1.25" & 1.5" hose adapter, 1.5" adapter conversion kit, 1.5" PVC pipe converter).
- Ensure a minimum water flow volume of 2377 GPH (40 Gallons Per Minute) for optimal performance.
- Before initial operation, allow some water to flow through the unit to clear any internal rust from manufacturing tests.



Figure 4.1: Illustration of the easy installation process and included adapter kit.

4.3 Placement

- Place the heat pump on a stable, level surface, such as concrete pavers.
- Ensure adequate clearance around the unit for proper airflow and maintenance access.

5. OPERATING

Your Aquastrom heat pump can be controlled via its integrated control panel or through the dedicated mobile application.

5.1 Control Panel Operation

The control panel allows you to monitor water temperatures and adjust settings directly on the unit.

- The display shows "Water return temp" (inlet temperature) and "Water outlet temp" (temperature of water leaving the unit).
- Set your desired temperature using the "Temp. setting" controls.
- Navigate through modes (Off, Mode, Function, Query, Setting) using the touch buttons.
- When the screen shows without sun/snow icon, the heat pump is in standby mode (power off).
- When the screen shows with a sun icon, the heat pump is powered on and actively heating.
- When the screen shows with a snow icon, the heat pump is powered on and actively cooling.



Figure 5.1: The heat pump can be controlled via a smart application.

5.2 Mobile Application Control

The Aquastrong app provides remote control capabilities, allowing you to adjust temperatures, track energy usage, and program heating schedules from your smartphone.

- Download the official Aquastrong app from your device's app store.

- Follow the in-app instructions to connect your heat pump to your home WiFi network.
- Once connected, you can set the target temperature, view inlet and outlet temperatures, and manage operating modes remotely.

5.3 Optimal Heating Practices

- Using a pool cover significantly improves heating efficiency and heat retention, reducing energy consumption.
- For rapid heating, ensure the pool pump is running continuously until the desired temperature is reached.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Aquastrong heat pump.

6.1 Automatic Defrosting

The unit features an intelligent automatic defrosting system that activates every 40 minutes for 5 minutes to prevent ice buildup on the coils, ensuring continuous heating performance even in colder weather.



Figure 6.1: Visual representation of the automatic defrosting function.

6.2 Condensate Drain

Similar to an air conditioning unit, the heat pump produces condensation during operation. Ensure the condensate drain hose is clear and properly routed to allow water to drain away from the unit and its electrical components.

6.3 General Cleaning

- Periodically clean the exterior of the unit with a soft, damp cloth.
- Ensure the air intake and exhaust vents are free from debris, leaves, and other obstructions to maintain optimal airflow.

7. TROUBLESHOOTING

If you encounter issues with your Aquastrong heat pump, refer to the following common troubleshooting steps:

- **Unit Not Powering On:**
 - Check the main power supply and circuit breaker for the unit.
 - Ensure all electrical connections are secure and properly wired (220V).
 - Verify the quick disconnect switch (if installed) is in the ON position.
- **Insufficient Heating/Cooling:**
 - Confirm the desired temperature setting is correct on the control panel or app.
 - Check the water flow rate from your pool pump; ensure it meets the minimum 2377 GPH requirement.
 - Inspect the heat pump's coils for any obstructions or excessive dirt that might impede heat exchange.
 - Ensure the pool cover is used to minimize heat loss, especially during heating cycles.
- **Unusual Noise:**
 - Verify the unit is placed on a stable, level surface to prevent vibrations.
 - Check for any loose components or debris inside the fan area.
- **Water Leaks:**
 - Inspect all plumbing connections for tightness.
 - Check the condensate drain hose for blockages or disconnections.

For persistent issues or complex problems, contact Aquastrong customer support.

8. SPECIFICATIONS

Specification	Value
Model	HEX075
Rated Voltage/Frequency	220V/50-60Hz
Rated Heating Capacity	75000 BTU/h
Max COP	15.8
Heating Operation Water Temp	47-104°F
Cooling Operation Water Temp	47-83°F

Water Flow Volume	2377 GPH (40 Gallons Per Minute)
Minimum Circuit Ampacity	30A
Noise Level	53 dB
Product Dimensions (L x W x H)	18"L x 29"W x 43"H
Item Weight	216 pounds
Material	Cast Iron

9. WARRANTY AND SUPPORT

Your Aquastrong HEX075 Inverter Swimming Pool Heat Pump comes with a **3-year warranty**, ensuring peace of mind regarding product quality and performance.

For technical assistance, troubleshooting, or warranty claims, please contact Aquastrong customer support. Refer to the product packaging or the official Aquastrong website for the most current contact information.



The advertisement features a large blue badge with the text "3-Year Protection Included" in white. To the right of the badge is a circular seal with "3 YEARS WARRANTY" and stars. Below these elements is a photograph of the Aquastrong pool heat pump unit, which is white with a large black circular fan grille and the "AQUASTRONG" logo. The unit is positioned on a gravel base next to a swimming pool. At the bottom of the image, the Aquastrong logo is displayed in blue, followed by the words "POOL HEAT PUMP" in a light blue, spaced-out font.

Figure 9.1: The product includes a 3-year protection plan.

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