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## Aquacal SQ120

# AquaCal SQ120AHDSBTM SuperQuiet HeatWave Pool Heat Pump User Manual

Model: SQ120

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your AquaCal SQ120AHDSBTM SuperQuiet HeatWave 110000-BTU Pool Heat Pump. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.



Image 1.1: AquaCal SQ120AHDSBTM SuperQuiet HeatWave Pool Heat Pump. This image shows the exterior of the heat pump unit, typically a rectangular or square appliance with vents and a control panel.

## 2. SAFETY GUIDELINES

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Always observe basic safety precautions when installing, operating, and maintaining this product to reduce the risk of fire, electric shock, or injury to persons.

- **Electrical Safety:** Ensure the unit is properly grounded. All electrical wiring must be performed by a qualified electrician and comply with local codes and regulations. Disconnect power before servicing.
- **Water Safety:** Do not operate the unit if water is present around the electrical components. Ensure proper water flow

through the heat pump.

- **Placement:** Install the unit in a well-ventilated area, away from flammable materials. Maintain adequate clearance around the unit for proper airflow.
- **Children:** Keep children away from the unit during operation and maintenance.
- **Professional Installation:** Installation should be performed by a qualified professional to ensure safety and optimal performance.

### 3. PRODUCT OVERVIEW AND FEATURES

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The AquaCal SQ120AHDSBTM SuperQuiet HeatWave is a high-efficiency pool heat pump designed to extend your swimming season. It utilizes advanced technology to heat your pool water effectively and quietly.

#### Key Features:

- **Titanium ThermoLink Heat Exchanger:** Features patented counter-flow water management for superior efficiency and corrosion resistance.
- **Keypad Lock-Out:** Provides tamper-proof settings to prevent unauthorized changes to your desired pool temperature.
- **Heavy-Duty Scroll Compressor:** Ensures super-efficient and extremely quiet operation, minimizing noise disturbance.
- **Corrosion-Proof Cabinet:** Constructed with durable materials to withstand harsh outdoor environments and prevent corrosion.
- **Off-Set Plumbing:** Designed for easy installation, simplifying the connection to your existing pool plumbing system.

### 4. INSTALLATION

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Proper installation is crucial for the performance and longevity of your AquaCal heat pump. It is highly recommended that installation be performed by a certified pool professional or a qualified electrician/plumber.

#### General Installation Steps (Consult a Professional):

1. **Site Selection:** Choose a location with adequate airflow, away from obstructions, and on a solid, level surface.
2. **Plumbing Connections:** Connect the heat pump to your pool's filtration system using the off-set plumbing ports. Ensure all connections are watertight.
3. **Electrical Wiring:** Connect the unit to a dedicated electrical circuit as per local codes. Verify correct voltage and amperage.
4. **Initial Startup:** After all connections are secure, slowly open water valves to fill the heat pump with water. Check for leaks.
5. **Power On:** Energize the electrical circuit to the heat pump.

**Note:** Refer to the detailed installation guide provided with your unit for specific diagrams and instructions.

### 5. OPERATING INSTRUCTIONS

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Once installed and powered, your AquaCal heat pump is designed for user-friendly operation.

#### Basic Operation:

- **Power On/Off:** Use the main power switch or control panel button to turn the unit on or off.
- **Setting Desired Temperature:** Use the up/down arrows on the control panel to set your desired pool water

temperature. The unit will automatically heat the water to this setting.

- **Keypad Lock-Out:** To prevent accidental changes or tampering, activate the keypad lock-out feature as described in your unit's specific control panel instructions.
- **Monitoring:** The display will show the current water temperature and other operational statuses.

For optimal heating, ensure your pool pump is running continuously during the heating cycle. Using a pool cover can significantly reduce heat loss and improve efficiency.

## 6. MAINTENANCE

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

- **Clean Coils:** Periodically inspect and clean the evaporator coils to remove leaves, debris, and dirt that can obstruct airflow.
- **Clear Airflow:** Ensure that the area around the heat pump is free from obstructions to allow for proper air intake and exhaust.
- **Water Chemistry:** Maintain proper pool water chemistry to prevent damage to the heat exchanger.
- **Winterization:** In colder climates, follow proper winterization procedures to protect the unit from freezing temperatures. Consult your dealer or the full manual for specific steps.
- **Professional Inspection:** Consider an annual inspection by a qualified technician to ensure all components are functioning correctly.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Unit not heating pool water effectively.	<ul style="list-style-type: none"><li>• Low ambient air temperature.</li><li>• Insufficient run time.</li><li>• Dirty evaporator coils.</li><li>• Incorrect temperature setting.</li><li>• Pool cover not used.</li></ul>	<ul style="list-style-type: none"><li>• Heat pumps are less efficient in cold weather; allow more time.</li><li>• Ensure the unit runs for sufficient periods (e.g., 8-12 hours daily).</li><li>• Clean coils to ensure proper airflow.</li><li>• Verify desired temperature setting on the control panel.</li><li>• Use a solar blanket to retain heat.</li></ul>
Unit shuts off frequently or displays an error.	<ul style="list-style-type: none"><li>• Low water flow.</li><li>• Electrical supply issue (e.g., tripped breaker).</li><li>• Sensor malfunction.</li></ul>	<ul style="list-style-type: none"><li>• Check pool pump and filter for proper operation and clear blockages.</li><li>• Inspect circuit breaker and electrical connections. Reset if tripped.</li><li>• Contact a qualified technician for diagnosis and repair.</li></ul>
Unit is noisy.	<ul style="list-style-type: none"><li>• Debris in fan.</li><li>• Loose components.</li><li>• Compressor issue.</li></ul>	<ul style="list-style-type: none"><li>• Inspect fan for obstructions and remove them.</li><li>• Check for loose panels or screws.</li><li>• If noise persists or is unusual, contact a service professional.</li></ul>

## 8. TECHNICAL SPECIFICATIONS

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Below are the key technical specifications for the AquaCal SQ120AHDSBTM SuperQuiet HeatWave Pool Heat Pump.

Specification	Detail
Model Number	SQ120
BTU Output	110,000 BTU (as per product title)
Heat Exchanger	Titanium ThermoLink
Compressor Type	Heavy-Duty Scroll Compressor
Manufacturer	Aquacal
Item Weight	302 pounds
Package Dimensions	46.75 x 39.5 x 36.5 inches

## 9. WARRANTY AND CUSTOMER SUPPORT

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AquaCal HeatWave SuperQuiet Heat Pumps are backed by a comprehensive manufacturer's warranty, recognized as one of the best in its class. This warranty provides peace-of-mind and investment protection.

For specific warranty details, claims, or technical assistance, please refer to the warranty card included with your product or contact AquaCal customer support directly.

**Contact Information:** Please visit the official AquaCal website or consult your purchase documentation for the most current customer support contact details.