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DURATECH HS40

DURATECH Hotsplash HS40-4KW Pool Heat Pump User Manual

Model: HS40

1. Introduction

This manual provides essential information for the safe and efficient operation of your DURATECH Hotsplash HS40-4KW Pool Heat Pump. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent damage or injury.
The Hotsplash HS40-4KW is a compact and efficient heat pump designed for heating swimming pools up to 12 cubic meters. It features an environmentally friendly R32 gas refrigerant, a corrosion-resistant titanium heat exchanger, and an intuitive control panel for ease of use. It is designed to operate effectively in ambient temperatures of +10 °C and above.

2. Safety Information

Always adhere to the following safety guidelines to prevent electric shock, fire, injury, or damage to the unit:

- Ensure the unit is installed by a qualified professional in accordance with local electrical and plumbing codes.
- Do not operate the unit if the power cord or plug is damaged.
- Keep children and pets away from the unit during operation.
- Do not insert objects into the fan grille or any openings.
- Disconnect power before performing any maintenance or cleaning.
- Ensure proper ventilation around the unit.

3. Product Components

Familiarize yourself with the main components of your Hotsplash HS40-4KW heat pump:

Figure 3.1: Overall view of the Hotsplash HS40-4KW pool heat pump, blue and black, with power cord and water hose connected. This image shows the compact design and the main connections.

Figure 3.2: Front view of the Hotsplash HS40-4KW pool heat pump, showing the main fan and the "Hot Splash" logo, along with the water inlet and outlet connections. The fan draws air in for heat exchange.

Figure 3.3: Side view of the Hotsplash HS40-4KW pool heat pump, highlighting the water inlet and outlet ports and the fan grille. These ports are crucial for connecting to your pool's filtration system.

Figure 3.4: Close-up of the power plug for the Hotsplash HS40-4KW, featuring "TEST" and "RESET" buttons for safety. Always test the RCD/GFCI before each use.

Figure 3.5: A hand demonstrating the integrated carrying handle on the top of the Hotsplash HS40-4KW pool heat pump, highlighting its portability.

4. Setup and Installation

Proper installation is crucial for the performance and longevity of your heat pump. The unit should be placed on a stable, level surface with adequate clearance for air circulation (at least 50 cm around the fan outlet).

4.1. Placement

- Place the heat pump outdoors, ensuring it is not exposed to direct sunlight for prolonged periods or heavy rain without adequate cover.
- Ensure the ambient temperature is above +10 °C for optimal operation.
- Consider the noise level and air discharge direction when choosing a location.

4.2. Water Connections

Connect the heat pump to your pool's filtration system. The unit uses a full-flow technology, meaning the entire pool water flow passes through the heat pump.

1. Identify the water inlet and outlet ports on the heat pump (refer to Figure 3.3).
2. Connect the outlet of your pool filter pump to the heat pump's*IN* port.
3. Connect the heat pump's *OUT* port back to your pool's return line.
4. Ensure all connections are secure and watertight to prevent leaks.

4.3. Electrical Connection

The Hotsplash HS40-4KW comes with a pre-wired power cord and a safety plug (RCD/GFCI).

1. Ensure the power outlet is suitable for the unit's electrical requirements (refer to specifications).
2. Plug the power cord into a grounded electrical outlet.
3. Before each use, press the "TEST" button on the plug, then the "RESET" button to ensure the safety device is functioning correctly.

5. Operating Instructions

The Hotsplash HS40-4KW features an intuitive control panel with three buttons for easy operation.

5.1. Initial Start-up

1. Ensure the pool filter pump is running and water is flowing through the heat pump. The heat pump requires water flow to operate.
2. Plug in the heat pump and perform the RCD/GFCI test (Section 4.3).
3. The unit will typically start automatically or can be turned on using the power button on the control panel.

5.2. Setting Desired Temperature

Use the control panel buttons to adjust the target water temperature. Refer to the display for the current water temperature and the set temperature.

- Press the **SET** button to enter temperature adjustment mode.
- Use the **UP** and **DOWN** arrows to increase or decrease the desired temperature.
- Press **SET** again or wait a few seconds for the setting to be saved.

5.3. Normal Operation

The heat pump will automatically turn on and off to maintain the set temperature, provided there is continuous water flow from the pool pump. The fan will operate to draw in ambient air for heat exchange.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your heat pump.

6.1. Cleaning

- Periodically clean the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the air intake and exhaust grilles are free from debris, leaves, and other obstructions. Blockages can reduce efficiency.

6.2. Winterization (If Applicable)

If you live in an area where temperatures drop below +10 °C and you will not be using the pool, it is recommended to winterize the heat pump:

1. Disconnect the power supply.
2. Drain all water from the heat pump by disconnecting the water hoses.
3. Store the unit in a dry, protected area, or cover it with a breathable, waterproof cover if left outdoors.

7. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Unit does not turn on	No power; RCD/GFCI tripped; Insufficient water flow	Check power connection; Reset RCD/GFCI; Ensure pool pump is running and water flow is adequate.

Problem	Possible Cause	Solution
Poor heating performance	Low ambient temperature; Dirty coils/grilles; Incorrect temperature setting; Pool size too large	Ensure ambient temperature is above +10 °C; Clean unit; Verify temperature setting; Confirm pool volume is within recommended limits (up to 12 m^3).
Unusual noise	Debris in fan; Loose components; Unit not level	Inspect and remove debris; Check for loose parts; Ensure unit is on a stable, level surface.
Water leakage	Loose hose connections; Damaged O-rings	Tighten all hose connections; Inspect and replace O-rings if damaged.

If the problem persists after attempting these solutions, please contact customer support.

8. Specifications

Feature	Specification
Model Number	HS40
Product Dimensions	30 cm (L) x 30 cm (W) x 35 cm (H)
Product Weight	16 Kilograms
Material	Plastic
Color	Blue
Special Function	Hot Water (Pool Heating)
Recommended Pool Volume	Up to 12 m^3
Minimum Ambient Operating Temperature	+10 °C
Refrigerant	R32 (Environmentally friendly)
Heat Exchanger	Titanium (Corrosion-resistant)

9. Warranty Information

DURATECH products are manufactured to high-quality standards and are covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official DURATECH website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

10. Customer Support

For technical assistance, troubleshooting beyond this manual, or spare parts inquiries, please contact DURATECH customer support. Have your product model number (HS40) and purchase details ready when contacting support. You can typically find contact information on the DURATECH official website or on your product's packaging.

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