

DOEL FO-003

DOEL FO-003 12000 BTU Mini Swimming Pool Heat Pump User Manual

Model: FO-003 | Brand: DOEL

1. INTRODUCTION

The DOEL FO-003 is a 12000 BTU mini swimming pool heat pump designed for efficient heating of above-ground pools and spas up to 2000 gallons. This 3.45 kW electric pool heater features a durable titanium heat exchanger and operates on 110V 60Hz power. This manual provides essential information for the safe and effective installation, operation, and maintenance of your heat pump.

2. SAFETY INFORMATION

Read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, property damage, or serious injury.

- **Electrical Safety:** Ensure the unit is connected to a properly grounded 110V 60Hz electrical outlet. Do not use extension cords. All electrical connections should comply with local codes.
- **Water Connections:** Ensure all water connections are secure and leak-free before operating the unit.
- **Placement:** Position the heat pump on a stable, level surface with adequate airflow around the unit. Do not block the discharge vent.
- **Children and Pets:** Keep children and pets away from the unit during operation.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- DOEL FO-003 Mini Swimming Pool Heat Pump Unit
- Instruction Manual

- Electrical Schematic
- Pipe Connectors (2)
- Hose Clamps and Hoses (may vary by package)



Image: Contents of the DOEL FO-003 heat pump package, including the unit, manual, connectors, and schematic.

4. SPECIFICATIONS

Feature	Specification
Model Number	FO-003
Heating Capacity	12000 BTU (3.45 kW)
Power Supply	110V, 60Hz
Recommended Pool Volume	Up to 2000 gallons
Refrigerant Type	R410A
Heat Exchanger	Titanium
Item Weight	52.9 pounds

Feature	Specification
Package Dimensions	18.5 x 16 x 16 inches



Image: Front and side view of the DOEL FO-003 heat pump with its physical dimensions indicated.

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your heat pump. Follow these steps carefully:

- 1. Placement:** Choose a stable, level outdoor location near your pool, ensuring at least 2 feet of clear space around the unit for proper airflow.
- 2. Connectors:** Attach the provided pipe connectors to the water inlet and outlet ports on the heat pump. Ensure a tight seal using thread seal tape if necessary.
- 3. Hose Connections:** Connect the water hoses from your pool's filter pump system to the heat pump.

The water flow should be from the filter pump, into the heat pump's water inlet, and then from the heat pump's water outlet back to the pool. Secure hoses with clamps.

4. **Electrical Connection:** Plug the heat pump into a dedicated 110V 60Hz grounded electrical outlet. No additional wiring is required.
5. **Initial Check:** Once all connections are made, turn on your pool's filter pump to ensure water flow through the heat pump. Check for any leaks.



Image: The DOEL FO-003 heat pump installed next to an above-ground pool, showing hose connections to a filter pump and the pool.

110v/60hz Outlet

No wiring required, just plug into an electrical socket



Image: A standard 110V/60Hz electrical plug, indicating direct plug-in operation.

Installation Video Guide

Your browser does not support the video tag.

Video: A detailed installation guide for the DOEL Mini Heat Pump, demonstrating the step-by-step process of connecting the unit to a pool and filter system.

6. OPERATING INSTRUCTIONS

The DOEL FO-003 heat pump features an easy-to-use intelligent control panel.

1. **Power On/Off:** Press the power button on the control panel to turn the unit on or off.
2. **Set Temperature:** Use the up and down arrow buttons on the control panel to adjust your desired water temperature. The display will show the current water temperature and your set temperature.
3. **Heating Process:** The heat pump will begin heating the water to the set temperature. Heating time will vary depending on pool volume, ambient temperature, and desired temperature increase.



Image: The intelligent control panel of the DOEL FO-003 heat pump, showing the digital display and control buttons.

7. MAINTENANCE

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

- **Clean Exterior:** Periodically wipe down the exterior of the unit to remove dust and debris.
- **Clear Airflow:** Ensure the fan and air intake/discharge vents are free from obstructions (leaves, dirt, etc.) to maintain efficient operation.
- **Check Connections:** Regularly inspect all water and electrical connections for tightness and signs of wear.
- **Winterization:** If storing the unit for winter, drain all water from the heat pump and hoses to prevent freezing damage. Store in a dry, protected area.



Image: An internal view highlighting the durable and anticorrosive titanium heat exchanger, a key component for efficient heating.

8. TROUBLESHOOTING

If you encounter issues with your heat pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Heat pump not turning on	No power, tripped breaker, faulty connection	Check power outlet, reset breaker, ensure plug is fully inserted.
Water not heating or heating slowly	Insufficient water flow, incorrect temperature setting, ambient temperature too low, pool size exceeds capacity	Ensure filter pump is running and providing adequate flow (approx. 400 GPH recommended). Verify desired temperature setting. Note that heating is slower in colder ambient conditions. Confirm pool volume is within the 2000-gallon limit.
Unit making unusual noises	Fan obstruction, loose components	Turn off power and inspect fan for obstructions. Check for any loose screws or panels.
Water leaks	Loose hose connections, damaged O-rings	Tighten hose clamps. Inspect O-rings and replace if damaged.

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

9. WARRANTY AND SUPPORT

The DOEL FO-003 Mini Swimming Pool Heat Pump comes with a **one-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. This warranty does not cover damage caused by improper installation, misuse, neglect, or unauthorized repairs.

For pre-sales consultation, installation guidance, technical support, or after-sales assistance, please refer to the contact information provided with your purchase documentation or visit the official DOEL website.