

DOEL CIP-35SE

DOEL 120000BTU Full DC Inverter Pool Heat Pump User Manual

Model: CIP-35SE

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your DOEL 120000BTU Full DC Inverter Pool Heat Pump, Model CIP-35SE. Please read this manual thoroughly before installation and use to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

IMPORTANT SAFETY INSTRUCTIONS

- **Electrical Safety:** All electrical connections must be performed by a qualified electrician in accordance with local and national electrical codes. Ensure the power supply matches the unit's requirements (220-240V, 50Hz).
- **Grounding:** The unit must be properly grounded to prevent electrical shock.
- **Installation Location:** Install the heat pump in a well-ventilated area, away from flammable materials and direct sunlight. Maintain adequate clearance around the unit for proper airflow.
- **Water Connections:** Ensure all plumbing connections are secure and leak-free. Do not operate the unit without proper water flow.
- **Refrigerant:** This unit contains R32 refrigerant. Servicing should only be performed by certified personnel. Do not attempt to repair or modify the refrigerant system yourself.
- **Children and Pets:** Keep children and pets away from the unit during operation.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

PRODUCT OVERVIEW

The DOEL 120000BTU Full DC Inverter Pool Heat Pump is designed to efficiently heat and cool swimming pools up to 30,000 gallons. It features a full DC inverter compressor, R32 refrigerant, and a titanium heat exchanger for optimal performance and durability. The integrated WiFi smart control panel allows for convenient remote operation.

Inverter Heat Pump



Heating Capacity: 120000 BTU	COP: 15.8-6.8	Pool Volume: 3000 Gallons	Heating & Cooling	App Control	Titanium Heat Exchanger
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Image: Front view of the DOEL 120000BTU Full DC Inverter Pool Heat Pump. This image shows the main unit with its fan grille and the DOEL logo.

Key Features:

- **Full DC Inverter Technology:** Provides variable speed operation for precise temperature control and energy efficiency.
- **High Heating Capacity:** 120,000 BTU suitable for pools up to 30,000 gallons.
- **R32 Refrigerant:** Environmentally friendly and efficient refrigerant.
- **Titanium Heat Exchanger:** Corrosion-resistant for long-lasting performance with various pool chemistries.
- **WiFi Smart Control Panel:** Remote control and monitoring via a mobile application.
- **Multiple Operating Modes:** Includes Heating, Cooling, Auto, Powerful, Silent, and Defrost modes.

- **Low Noise Operation:** Designed for quiet performance, with a noise level as low as 56 dB.

INSTALLATION GUIDE

1. Choosing an Installation Location

Select a location that is:

1. Well-ventilated and open to the air.
2. At least 20 inches (50 cm) away from any walls or obstructions to allow for proper airflow.
3. On a solid, level surface capable of supporting the unit's weight (approximately 225 lbs / 102 kg).
4. Close to the pool's filtration system for easy plumbing connections.

Weight: 216 pounds



Image: Diagram showing the dimensions of the DOEL Pool Heat Pump (41.6 x 15.8 x 29.1 inches) and its weight (225 pounds). This helps in planning the installation space.

2. Plumbing Connections

Connect the heat pump to your pool's filtration system. Water should flow from the pool pump, through the filter, then to the heat pump, and finally back to the pool. Use appropriate PVC plumbing fittings and hose adapters (1.25" & 1.5" hose adapters, 4560 Pool Hose Conversion Adapters Kit, 1.5" PVC Plumbing Fittings are included) to ensure a watertight connection.



Image: Various hose adapters and PVC plumbing fittings provided with the heat pump, including 1.25" & 1.5" hose adapters, 4560 Pool Hose Conversion Adapters Kit, and 1.5" PVC Plumbing Fittings. These are used for connecting the heat pump to the pool's water circulation system.

3. Electrical Connections

WARNING: Electrical work must be performed by a qualified electrician.

1. Ensure the main power supply to the pool equipment is turned off at the circuit breaker.
2. Connect the power cord to the designated terminals inside the heat pump's electrical compartment. Refer to the wiring diagram inside the unit's access panel.
3. Connect the power cord of the water pump to the heat pump's terminal (L1, L2, P1, P2) to enable synchronized operation. This allows the pool pump to start and stop with the heat pump.
4. Verify all connections are secure and properly insulated.

1. Simply connect the power cord as directed to start using.
2. You can connect the power cord of the water pump to this terminal enables the pump to start and stop working along with the heat pump.

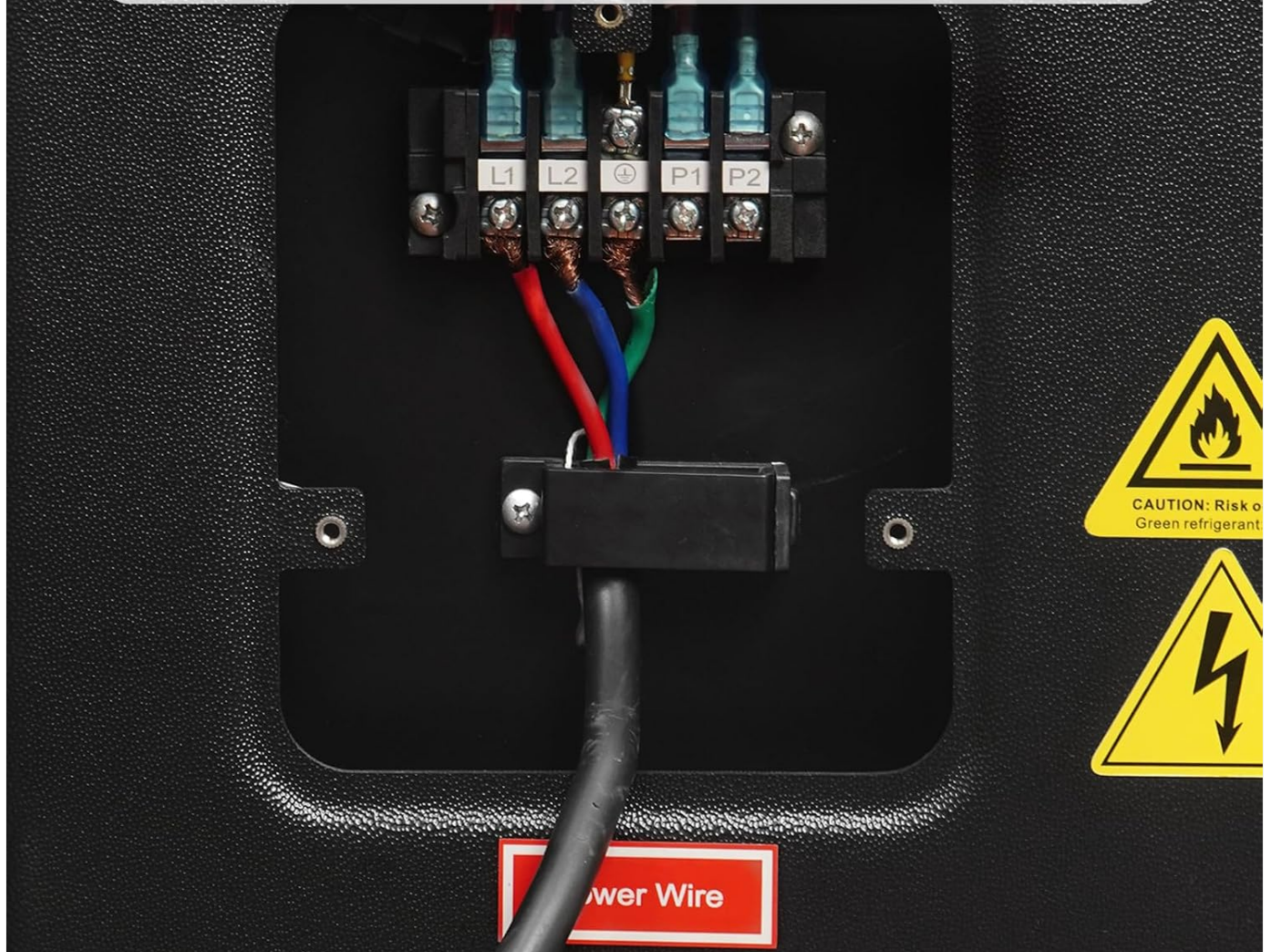


Image: Close-up view of the electrical connection terminal block inside the heat pump. It shows the L1, L2, P1, and P2 terminals for connecting the main power and the pool pump's power cord.

OPERATING INSTRUCTIONS

1. Initial Startup

1. Ensure all plumbing connections are secure and the pool pump is running, providing water flow to the heat pump.
2. Turn on the main power supply to the heat pump at the circuit breaker.
3. The unit will perform a self-check. Follow the instructions on the control panel to set your desired temperature and operating mode.

2. Control Panel Operation

The heat pump is equipped with an intelligent control panel for direct operation.

- **On/Off:** Press the power button to turn the unit on or off.
- **Temperature Setting:** Use the up/down arrows to adjust the desired pool water temperature.
- **Mode Selection:** Cycle through available operating modes (Heating, Cooling, Auto, Powerful, Silent, Defrost).
- **Timer:** Set schedules for operation.

3. WiFi Smart Control (Mobile App)

For remote control and monitoring, connect your heat pump to your home WiFi network and use the dedicated mobile application.

1. Download the official DOEL Smart Pool app from your device's app store.
2. Follow the in-app instructions to register an account and add your heat pump device.
3. Once connected, you can remotely control On/Off, temperature settings, mode selection, and set timers.



Image: A smartphone displaying the DOEL Smart Pool app interface, showing temperature settings and control options, alongside the heat

pump unit. This illustrates the WiFi control feature.

4. Operating Modes

- **Heating Mode:** Heats the pool water to the desired temperature (47-104°F).
- **Cooling Mode:** Cools the pool water to the desired temperature (47-82°F).
- **Auto Mode:** Automatically switches between heating and cooling to maintain the set temperature.
- **Powerful Mode:** Operates at maximum capacity for faster heating or cooling.
- **Silent Mode:** Reduces fan speed and compressor output for quieter operation, ideal for nighttime.
- **Defrost Mode:** Automatically activates in cold conditions to prevent ice buildup on the evaporator coil.



Image: Graphic illustrating the heating temperature range (47-104°F) and cooling temperature range (47-82°F) of the DOEL Pool Heat Pump.

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

1. Routine Cleaning

- **Exterior:** Wipe the exterior casing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Evaporator Coils:** Periodically inspect the evaporator coils for debris (leaves, dirt, etc.). Gently clean with a soft brush or vacuum cleaner. Ensure power is disconnected before cleaning.
- **Fan Blades:** Check the fan blades for obstructions.

2. Water Drainage

If the unit is not in use for an extended period (e.g., winterization), drain the water from the titanium heat exchanger to prevent freezing and damage.

1. Turn off the heat pump and disconnect its power supply.
2. Turn off the pool pump and close any valves leading to the heat pump.
3. Locate the drainage port at the bottom of the unit.
4. Open the drain plug to allow all water to exit the heat exchanger.
5. Once drained, close the plug.



Image: Close-up view of the drainage port on the DOEL Pool Heat Pump, labeled "Drainage". This port is used to drain water from the titanium heat exchanger for maintenance or winterization.

3. Professional Inspection

It is recommended to have a qualified technician inspect the heat pump annually, especially before the start of the swimming season, to ensure all components are functioning correctly.

TROUBLESHOOTING

Before contacting customer support, please review the following common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; circuit breaker tripped; loose wiring.	Check power supply and circuit breaker. Ensure all electrical connections are secure.
No heating/cooling.	Insufficient water flow; incorrect mode selected; low refrigerant.	Ensure pool pump is running and water flow is adequate. Verify correct operating mode. Contact a qualified technician for refrigerant issues.
Low water flow error.	Clogged filter; closed valves; faulty pool pump.	Clean pool filter. Open all valves in the plumbing line. Check pool pump operation.
Unusual noise during operation.	Debris in fan; loose components; compressor issue.	Disconnect power and check for debris in the fan. Tighten any loose screws. If noise persists, contact customer support.
WiFi connection issues.	Incorrect WiFi password; weak signal; app issues.	Verify WiFi password. Ensure unit is within WiFi range. Restart router and heat pump. Reinstall mobile app if necessary.

For problems not listed here or if solutions do not resolve the issue, please contact DOEL customer support.

SPECIFICATIONS

Parameter	Value
Model Number	CIP-35SE
Heating Capacity	120,000 BTU
Recommended Pool Volume	Up to 30,000 Gallons
Power Supply	220-240V, 50Hz
Max Power Input	4.76 kW
Max Current	30 A
Refrigerant	R32
Heat Exchanger	Titanium
Casing Material	ABS
Water Flow Volume	3170 Gal/h
Noise Level (3.28ft dB(A))	49-59 dB(A)
Working Temperature Range	5-109.4°F (47-104°F Heating, 47-82°F Cooling)

Parameter	Value
Product Dimensions (L x W x H)	41.6 x 15.8 x 29.1 inches
Item Weight	225 pounds
Manufacturer	Solareast Heat Pump LTD.

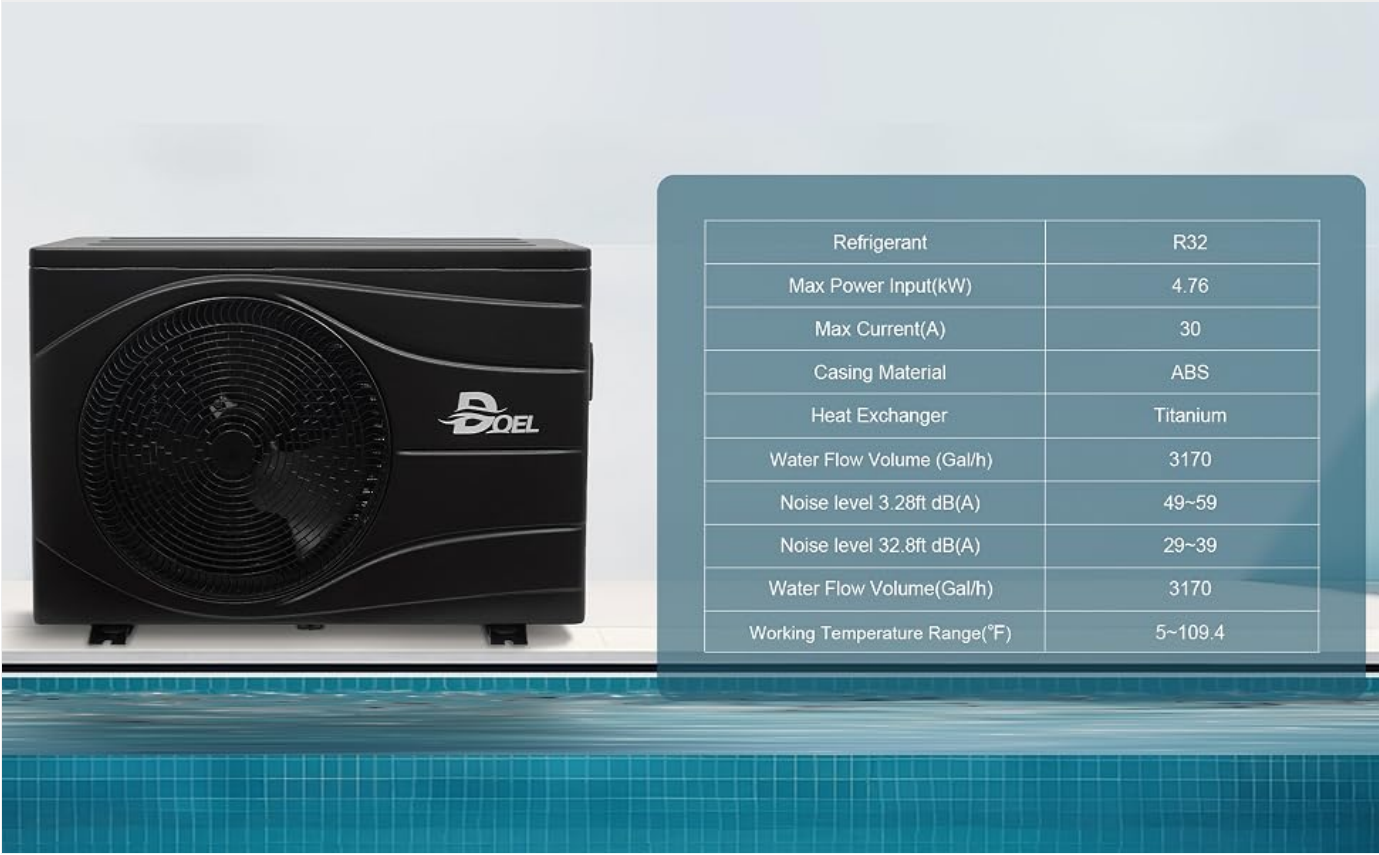


Image: A table displaying detailed technical specifications and parameters of the DOEL Pool Heat Pump, including refrigerant type, power input, casing material, heat exchanger type, water flow, noise level, and working temperature range.

WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical assistance, or to report any issues with your DOEL Pool Heat Pump, please contact DOEL customer support. Refer to your purchase documentation for specific warranty terms and contact details.

Manufacturer: Solareast Heat Pump LTD.

Online Support: [Visit the product page on Amazon](#) for customer support options.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question