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VEVOR VBPYCE-150

VEVOR Electric Pool Heat Pump User Manual

Model: VBPYCE-150 (3.22-15.25kW)

1. Important Safety Instructions

Please read this manual carefully before installation, operation, or maintenance. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

- **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. Do not operate the unit with damaged power cords or plugs.
- **Water Safety:** Do not operate the heat pump if there is any risk of water entering electrical components. Ensure proper water flow through the unit.
- **Installation:** Install the unit on a solid, level surface with adequate ventilation. Maintain specified clearances around the unit.
- **Operation:** Do not insert objects into the fan grille. Keep children and pets away from the unit during operation.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning. Refer to the maintenance section for proper procedures.
- **Refrigerant:** This unit contains refrigerant. Servicing should only be performed by qualified personnel.

2. Product Overview

The VEVOR Electric Pool Heat Pump is an energy-efficient solution for maintaining your pool's desired temperature. It offers both heating and cooling functions, suitable for above-ground or in-ground pools ranging from 30 to 60 m^3. Featuring inverter technology, a titanium tube heat exchanger, and quiet operation, it provides a comfortable swimming experience.



Figure 2.1: VEVOR Electric Pool Heat Pump, front view.

2.1 Key Features

- **Rapid Heating & Cooling:** 3.22-15.25 kW heating capacity for quick temperature adjustment.
- **Precise Temperature Control:** Maintains desired pool temperature with minimal fluctuations.
- **Energy Efficient:** Variable frequency inverter technology with EER up to 15.64.
- **Durable Construction:** High-performance compressor and titanium tube heat exchanger resistant to salt, chlorine, and corrosion.
- **Quiet Operation:** Operates at less than 62 dB (at 1 meter).

3. Package Contents

Please check the package contents upon arrival. If any items are missing or damaged, contact customer service.

- 1 x VEVOR Electric Pool Heat Pump
- 1 x User Manual (this document)

- 4 x Shock-absorbing Pads
- 2 x Drain Nozzles
- 1 x 2m Drain Hose
- 2 x Universal Metric-Imperial Connector Kit



Figure 3.1: Heat pump dimensions and included accessories.

4. Setup and Installation

4.1 Site Selection

- Choose a location with good air circulation, away from direct sunlight and heat sources.
- Ensure the unit is placed on a stable, level surface capable of supporting its weight (55.5 kg / 122.4 lbs).
- Maintain a minimum clearance of 50 cm (20 inches) around the unit for proper airflow and maintenance access.
- Position the unit to allow for proper drainage of condensate.

4.2 Plumbing Connection

The heat pump must be connected to your pool's filtration system. Ensure all connections are watertight.

1. Turn off the pool pump and close any necessary valves.
2. Connect the pool water outlet (from the filter) to the heat pump's inlet.
3. Connect the heat pump's outlet to the pool water return line.
4. Use the provided universal connector kit to ensure compatibility with your existing plumbing.
5. Install the drain hose to the condensate outlet.



Figure 4.1: Typical pipe installation diagram showing connection points within a pool filtration system.

4.3 Electrical Connection

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

- The unit requires an AC 220-240V, 50Hz power supply.
- Ensure the power circuit has appropriate overcurrent protection (circuit breaker) and a residual current device (RCD/GFCI) for safety.
- Connect the power cable to the designated terminal block inside the unit, following the wiring diagram provided on the unit's label.
- Ensure all connections are secure and protected from moisture.

5. Operating Instructions

5.1 Initial Start-up

1. Ensure all plumbing connections are secure and the pool pump is running, allowing water to flow through the heat pump.
2. Turn on the electrical power to the heat pump.
3. The unit will perform a self-check. The display will illuminate.

5.2 Control Panel

The heat pump features a smart programmable control panel for easy operation.



Figure 5.1: Smart programmable control panel for customizable control, real-time monitoring, and intelligent linkage.

- **Power Button:** Turns the unit ON/OFF.
- **Mode Button:** Selects operating mode (Heating, Cooling, Auto).
- **Up/Down Arrows:** Adjusts the desired temperature setting.
- **Display:** Shows current water temperature, set temperature, and operating status.

5.3 Setting Temperature

1. Press the Mode button to select either Heating or Cooling.
2. Use the Up/Down arrows to set your desired pool water temperature.
3. The heating temperature range is 9-40°C (48.2-104°F).
4. The cooling temperature range is 8-28°C (46.4-82.4°F).
5. The unit will automatically start or stop to maintain the set temperature.

5.4 Soft Start Function

The heat pump is equipped with a soft start function that minimizes the inrush current when the unit starts, reducing stress on electrical components and improving energy efficiency.

6. Maintenance

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

6.1 Regular Cleaning

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

6.2 Water Quality

Maintain proper pool water chemistry (pH, chlorine levels) as recommended by pool professionals. This prevents corrosion and scaling within the heat pump's heat exchanger.

6.3 Winterization (for cold climates)

If the unit will be exposed to freezing temperatures, it must be properly winterized to prevent damage.

1. Turn off the heat pump and disconnect its power supply.
2. Drain all water from the heat pump's plumbing by disconnecting the inlet and outlet pipes.
3. Ensure the condensate drain is clear.
4. Cover the unit with a protective, breathable cover to shield it from elements.

7. Troubleshooting

If you encounter issues, refer to the table below. For problems not listed or if solutions do not work, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Circuit breaker tripped; Loose wiring	Check power connection; Reset circuit breaker; Verify wiring (qualified electrician)
No heating/cooling	Insufficient water flow; Incorrect mode selected; Set temperature not reached	Ensure pool pump is running; Check for clogged filters; Select correct mode; Adjust set temperature
Low heating/cooling efficiency	Dirty evaporator coils; Poor air circulation; Low ambient temperature	Clean coils; Ensure proper clearances; Unit performance is affected by ambient temperature
Unusual noise	Loose components; Fan obstruction; Unit not level	Inspect for loose parts; Check fan for obstructions (power off); Ensure unit is on a level surface
Water leakage	Condensate drain blocked; Loose plumbing connections	Clear condensate drain; Tighten plumbing connections

8. Specifications

Feature	Specification
Model Number	VBPYCE-150
Rated Heating Capacity	3.22-15.25 kW
Max Input Power	3.82 kW
Power Supply	AC 220-240V, 50Hz
Heating Temperature Range	9-40°C (48.2-104°F)
Cooling Temperature Range	8-28°C (46.4-82.4°F)
Recommended Pool Size	30-60 m^3
Operating Environment Temperature	-10 to 40°C (14 to 104°F)
Noise Level	<62 dB (at 1m)
Net Weight	55.5 kg (122.4 lbs)

Feature	Specification
Product Dimensions (L x W x H)	1000 x 391 x 654 mm (39.4 x 15.4 x 25.8 inches)

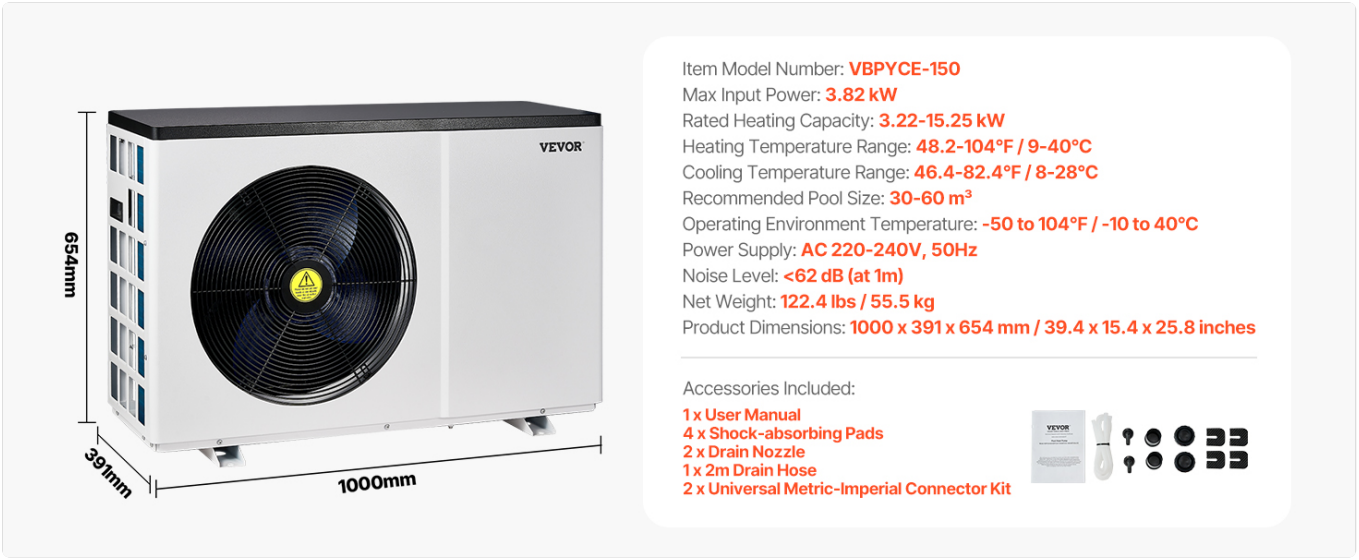

Figure 8.1: Visual representation of product specifications and dimensions.

9. Warranty and Support

VEVOR products are designed for durability and performance. For warranty information, please refer to the warranty card included with your product or visit the official VEVOR website. If you have any questions, require technical assistance, or need to report a problem, please contact VEVOR customer support through their official channels.
Please have your model number (VBPYCE-150) and purchase details ready when contacting support.

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