Vantec EEI 25-40/180

Vantec EEI 25-40/180 High-Efficiency Circulation Pump User Manual

Brand: Vantec | Model: EEI 25-40/180

1. INTRODUCTION

The Vantec EEI 25-40/180 High-Efficiency Circulation Pump is designed to facilitate forced circulation within central heating systems. Equipped with an inverter and a processor, the pump automatically adjusts its power and pressure parameters to meet the specific demands of the system. This design ensures efficient and stable operation with minimal energy consumption.

Key operational characteristics include quiet performance, very low energy consumption (as low as 5 W), and resistance to corrosion, contributing to its durability and reliability in various heating and cooling applications.

2. SAFETY INFORMATION

Before installation, operation, or maintenance, carefully read and understand all instructions in this manual. Failure to follow these instructions may result in property damage, injury, or death. Ensure all electrical connections are performed by a qualified electrician in accordance with local regulations. Always disconnect power before performing any service or maintenance on the pump. Do not operate the pump if it is damaged or if any electrical components are exposed to moisture.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- Vantec EEI 25-40/180 Circulation Pump
- Screw fitting kit
- Gaskets
- Power cable with plug

Image: The Vantec EEI 25-40/180 circulation pump shown with its included accessories, such as the power cable, screw fittings, and gaskets, all within its product packaging.

4. Setup and Installation

Installation of the Vantec EEI 25-40/180 pump should be carried out by qualified personnel to ensure proper function and safety. The pump is designed for integration into existing or new central heating systems.

4.1. Mechanical Installation

1. Ensure the system is depressurized and drained before installation.
2. Mount the pump in the designated location, ensuring the flow direction matches the system. The pump has a spacing of 180 mm between connections.
3. Use the provided screw fitting kit and gaskets to connect the pump to the system piping. The connection diameter is 1 1/2" - 1". Tighten connections securely to prevent leaks.

Image: The Vantec EEI 25-40/180 pump with its screw fittings installed, illustrating how it connects to system piping.

Image: A detailed view of the screw fitting kit and gaskets provided for secure and leak-proof installation.

4.2. Electrical Connection

1. Connect the provided power cable to the pump's electrical input.
2. Plug the power cable into a suitable 230 V/50 Hz electrical outlet. Ensure the power supply is stable and meets the pump's requirements.

Image: The power cable with a standard plug, used to connect the pump to the main electrical supply.

5. OPERATING INSTRUCTIONS

The Vantec EEI 25-40/180 pump features an electronic control panel for easy operation and monitoring.

5.1. Initial Start-up and Auto-Adaptive Function

The pump is equipped with an auto-adaptive function, allowing it to start without requiring manual adjustments. It automatically and continuously adjusts its power to the system's needs through a permanent magnet motor and differential pressure regulator.

5.2. Electronic Control Panel

The electronic control panel is located on the top of the motor. Its digital display shows the current energy consumption in watts (W) or meters (m) of head. Use the control buttons to navigate through settings or modes if available (specific button functions are typically detailed in a separate quick start guide or on the device itself).

Image: A close-up view of the electronic control panel, highlighting the digital display and control buttons for monitoring and adjusting pump operation.

5.3. Applicable Systems

This circulation pump is suitable for a variety of applications, including:

- Central heating systems
- Underfloor heating systems

- Heating systems with constant temperature and variable flow
- Heating systems with night operation mode
- Air conditioning systems
- Industrial circulation systems
- Domestic central heating (CO) systems
- Domestic hot water systems

6. MAINTENANCE

The Vantec EEI 25-40/180 pump is designed for minimal maintenance due to its robust construction and corrosion-resistant materials. Regular checks can help ensure optimal performance and longevity.

- **Visual Inspection:** Periodically inspect the pump and connections for any signs of leaks, corrosion, or damage.
- **Cleanliness:** Ensure the area around the pump is free from debris that could obstruct ventilation or access.
- **System Water Quality:** Maintaining good system water quality (e.g., proper pH, inhibitors) can extend the life of the pump and the entire heating system.

For any internal maintenance or repairs, it is recommended to contact a qualified service technician.

7. TROUBLESHOOTING

If the pump is not operating as expected, consider the following basic checks:

- **No Power:** Check if the pump is properly plugged into a live electrical outlet. Verify circuit breakers or fuses.
- **No Flow/Low Flow:** Ensure all valves in the system are open. Check for air in the system and bleed if necessary. Verify that the system pressure is within the pump's operating range.
- **Unusual Noise:** Air in the system or debris in the pump can cause noise. Bleed the system or, if persistent, contact service personnel.

For complex issues or if basic troubleshooting does not resolve the problem, contact a qualified service technician or the manufacturer's support for assistance.
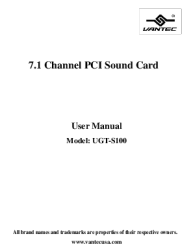
8. SPECIFICATIONS

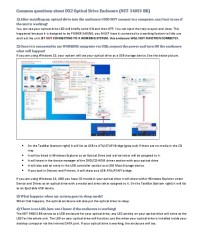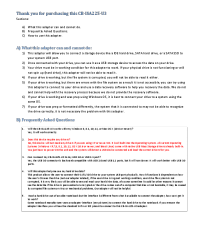| Feature	Specification
Rated Voltage	230 V / 50 Hz
Power Consumption	5 - 22 W
Max Flow Rate	48 l/min
Max Head	4.5 m
Max Operating Pressure	10 bar
Operating Temperature	+2 °C to +110 °C
Spacing (Port-to-Port)	180 mm
Connection Diameter	1 1/2" - 1"
Protection Index	IP44
Dimensions (L x W x H)	23 x 20 x 13 cm
Weight	2.35 kg
Motor Winding	100% Copper

9. WARRANTY AND SUPPORT

The Vantec EEI 25-40/180 Circulation Pump is covered by a manufacturer's warranty. Please refer to the warranty documentation provided with your purchase for specific terms and conditions. For technical support, service, or warranty claims, please contact your retailer or the Vantec customer service department. Keep your proof of purchase for warranty validation.

Related Documents - EEI 25-40/180

	[Vantec NST-M240C4 M.2 NVMe Enclosure Installation Guide](#) Step-by-step installation guide for the Vantec NST-M240C4 M.2 NVMe enclosure. Learn how to install your NVMe SSD, prepare it for use, and handle static-sensitive devices.
	[Vantec UGT-S100 7.1 Channel PCI Sound Card User Manual](#) User manual for the Vantec UGT-S100 7.1 Channel PCI Sound Card, detailing features, system requirements, installation steps, physical connections, and warranty information.

[Vantec ALL in 1 Multifunction Internal Card Reader UGT-CR955-BK User Manual](#)
User manual for the Vantec ALL in 1 Multifunction Internal Card Reader (Model: UGT-CR955-BK). Features include support for 59 memory card types, eSATA, USB 2.0, and FireWire ports. Installation, specifications, FAQ, and contact information.

[Vantec USB 3.0 Universal Mini Docking Station Adapter DSH-M100U3 User Manual](#)
User manual for the Vantec DSH-M100U3 USB 3.0 Universal Mini Docking Station Adapter. Learn about its features, system requirements, installation, and display configuration for Windows and Mac OS X.

[Vantec NexStar DX2 External Optical Drive Enclosure FAQ - NST-540S3-BK](#)
Frequently Asked Questions (FAQ) for the Vantec NexStar DX2 external optical drive enclosure (model NST-540S3-BK). Get answers on installation, connectivity, power, compatibility, and troubleshooting for your SATA optical drive.

[Vantec CB-ISA225-U3 SATA/IDE to USB 3.0 Adapter User Guide](#)
Comprehensive guide for the Vantec CB-ISA225-U3 adapter, detailing its capabilities, frequently asked questions, and step-by-step connection instructions for SATA and IDE hard drives.