VEVOR 007-F5-7IFC

VEVOR 007-F5-7IFC Circulation Pump Instruction Manual

Model: 007-F5-7IFC

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your VEVOR 007-F5-7IFC Cast Iron Circulation Pump. This pump is designed for circulating hot water in underfloor heating systems and home water heater systems, offering a maximum flow rate of 23 GPM and a head of 16 ft. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or property damage.

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Installation must be performed by a qualified professional in accordance with all local and national electrical and plumbing codes.
- Ensure the pump is properly grounded to prevent electric shock.
- Do not operate the pump with flammable liquids or in explosive atmospheres.
- Protect the pump from freezing temperatures.
- Ensure all connections are watertight to prevent leaks and electrical hazards.
- Do not run the pump dry. Ensure the system is fully hydrated before operation.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

3. Product Overview

3.1 Components

The VEVOR 007-F5-7IFC Circulation Pump consists of the following main components:

- **Cast Iron Shell:** Durable exterior casing providing IP44 protection.
- **Junction Box:** Sealed design for secure electrical connections.
- **Speed Control Knob:** Allows adjustment of the pump's operating speed.
- **1" NPT Flange Connection:** Standard connection for plumbing systems.
- **Built-in Check Valve:** Prevents backflow in the system.

Figure 1: Key components of the VEVOR 007-F5-7IFC Circulation Pump, including the cast iron shell, junction box, speed control knob, and 1-inch flange connection.

Figure 2: Front view of the VEVOR 007-F5-7IFC Circulation Pump, showing the main body and included sealing rings.

3.2 Key Features

- **High Compatibility:** Designed as a replacement for existing hot water recirculating pumps in underfloor heating and home water heater systems.
- **Integrated Check Valve:** Prevents water backflow, enhancing system stability and pump lifespan.
- **Quiet Operation:** Operates at a maximum noise level of 45 dB due to a pure copper motor and optimized internal design.
- **Adjustable Flow Rate:** Features three adjustable speed settings for customized water circulation.
- **Durable Construction:** Cast iron exterior with IP44 protection, suitable for water temperatures from 35.6°F to 230°F.

4. Setup and Installation

Proper installation is crucial for the efficient and safe operation of your circulation pump. Refer to the diagrams below for guidance.

1. **System Preparation:** Ensure the heating system is drained and depressurized before beginning installation.
2. **Pump Placement:** The circulator pump should be installed at the underfloor heating return line.

3. **Orientation:** The pump head should not be positioned upwards or downwards. Maintain a horizontal orientation for the motor shaft. Refer to Figure 3 for correct and incorrect orientations.
4. **Flow Direction:** Ensure the water flow direction aligns with the arrow indicated on the pump body.
5. **Connections:** Connect the pump using the 1" NPT flange connections. Use the provided sealing rings to ensure leak-free connections.
6. **Electrical Wiring:** Connect the pump to a 110V, 60Hz power supply. All electrical wiring must comply with local codes and be performed by a qualified electrician. Ensure the junction box is securely sealed after wiring.
7. **System Hydration:** After installation, slowly refill and hydrate the system, ensuring all air is purged before turning on the pump. Running the pump dry can cause damage.

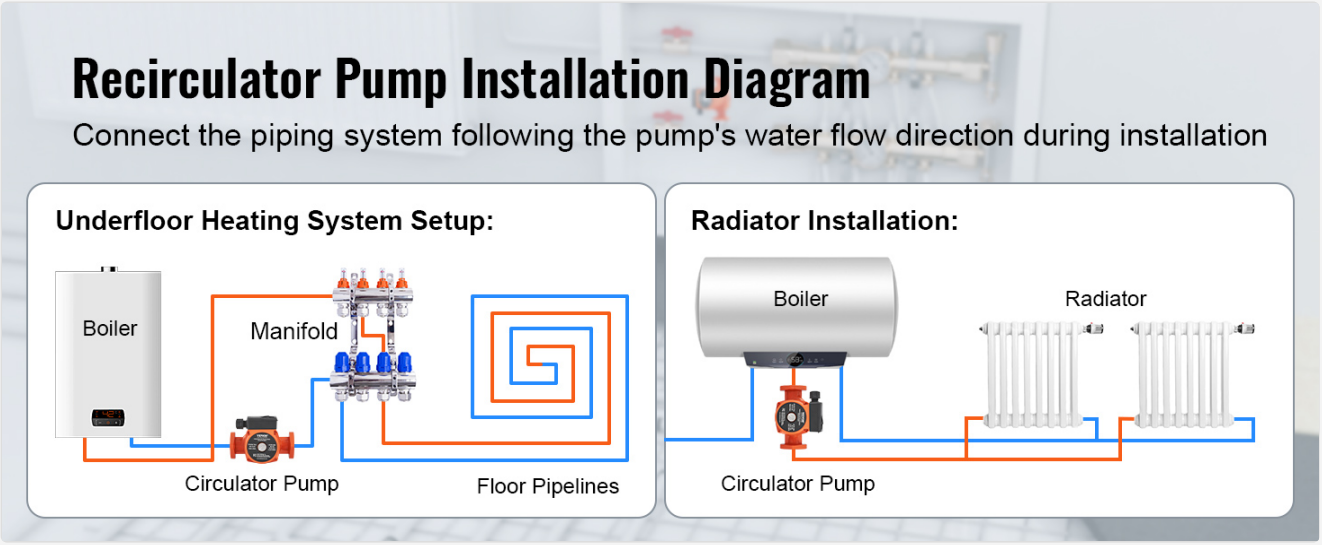

Figure 3: Recirculator Pump Installation Diagram, showing typical setups for underfloor heating and radiator systems.

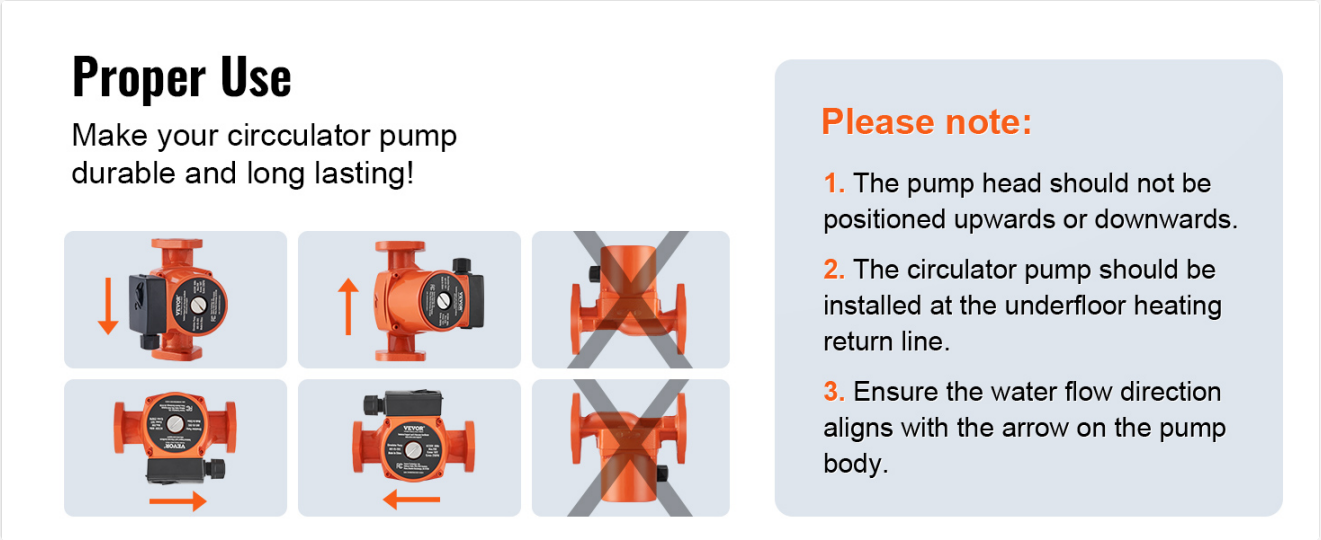

Figure 4: Proper Use guidelines for pump orientation and installation location.

Figure 5: Example of the VEVOR 007-F5-7IFC Circulation Pump installed within a heating system.

5. Operating Instructions

The VEVOR 007-F5-7IFC pump features three adjustable speed settings to optimize water circulation for various needs.

1. **Power On:** Once installed and the system is filled, apply power to the pump.
2. **Adjusting Speed:** Use the speed control knob located on the top of the pump's junction box to select the desired speed setting (1, 2, or 3).
    - **Speed 1 (Low):** For minimal circulation requirements or energy saving.
    - **Speed 2 (Medium):** For standard daily circulation needs.
    - **Speed 3 (High):** For maximum circulation, suitable for rapid heating or larger systems.
3. **Monitoring:** Observe the system's performance and adjust the speed as necessary to achieve optimal heating and energy efficiency.

Figure 6: Three speed modes for adjusting water circulation.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your VEVOR circulation pump.

- **Annual Inspection:** Annually inspect the pump and connections for any signs of leaks, corrosion, or wear.
- **System Water Quality:** Maintain good water quality in your heating system to prevent scale buildup and corrosion within the pump and piping.
- **Check Valve:** The pump includes a built-in check valve designed to prevent backflow, reducing the need for external maintenance on this component.
- **Winterization:** If the system is exposed to freezing temperatures, ensure it is properly drained or protected with antifreeze to prevent damage to the pump and pipes.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris to ensure proper heat dissipation.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your circulation pump.

Problem	Possible Cause	Solution
Pump does not start or run.	No power supply; Motor seized; Incorrect wiring.	Check power connection and circuit breaker. Consult an electrician to verify wiring. If motor is seized, contact support.
Pump is running but no water circulation.	Air in the system; Closed valves; Clogged impeller.	Bleed air from the system. Ensure all necessary valves are open. Inspect for blockages if accessible, or contact a professional.
Excessive noise or vibration.	Air in the system; Improper mounting; Worn bearings; Debris in pump.	Bleed air from the system. Check mounting bolts for tightness. If noise persists, it may indicate internal wear; contact support.
Leaking from connections.	Loose flange connections; Damaged sealing rings.	Tighten flange bolts. Replace sealing rings if damaged.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact VEVOR customer support.

8. Specifications

Detailed technical specifications for the VEVOR 007-F5-7IFC Circulation Pump:

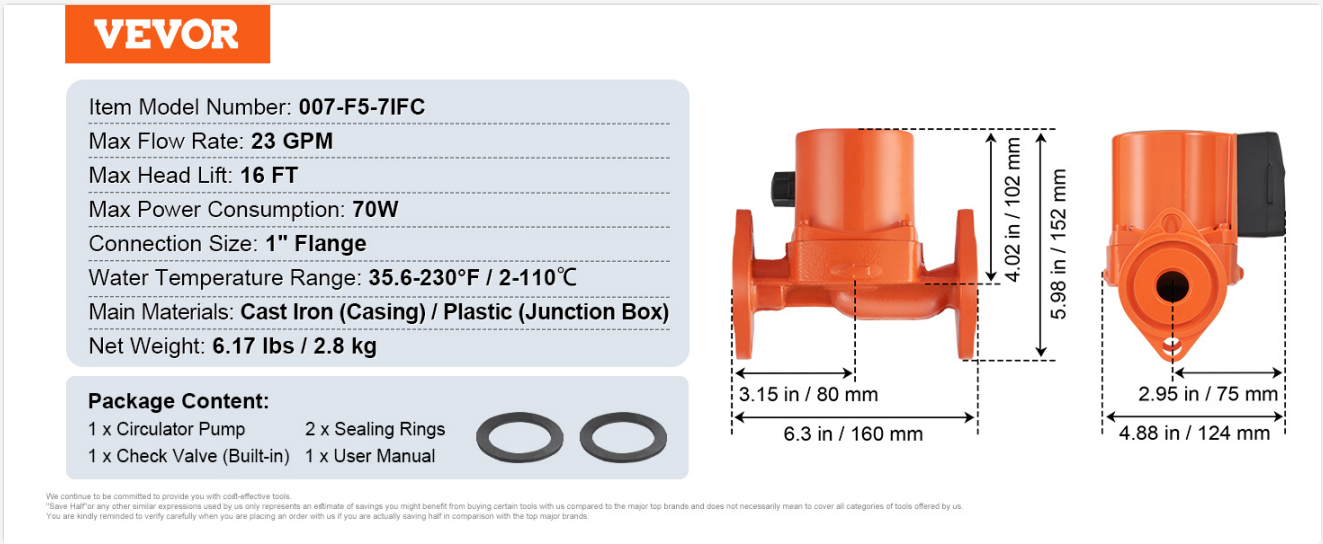

Figure 7: Product specifications and package contents.

Specification	Value
Model Number	007-F5-7IFC
Brand	VEVOR

Specification	Value
Material	Cast Iron (Casing) / Plastic (Junction Box)
Power Source	Corded Electric
Voltage	110 Volts
Max Power Consumption	70W
Maximum Flow Rate	23 GPM (Gallons Per Minute)
Maximum Lifting Height (Head)	16 Feet
Connection Size	1" NPT Flange Connection
Water Temperature Range	35.6°F to 230°F (2°C to 110°C)
Protection Rating	IP44
Net Weight	6.17 lbs / 2.8 kg
Included Components	1 x Circulator Pump, 2 x Sealing Rings, 1 x Check Valve (Built-in), 1 x User Manual

9. Warranty and Support

VEVOR products are designed for durability and performance. This product comes with a warranty as per VEVOR's standard terms and conditions. Please refer to the official VEVOR website or your purchase documentation for specific warranty details.
For technical support, warranty claims, or any questions regarding your VEVOR 007-F5-7IFC Circulation Pump, please visit the official VEVOR support page or contact their customer service directly. Information regarding technical support and e-warranty certificates can often be found on the product packaging or the VEVOR website.
Online Support: www.vevor.com/support

Related Documents - 007-F5-7IFC

	VEVOR Pre-Seasoned Cast Iron Tortilla Press User Manual and Instructions Detailed user manual for the VEVOR pre-seasoned cast iron tortilla press (models HES200, HES250, HES200SET, HES250SET). Includes assembly, preparation, cooking, cleaning, seasoning, and safety guidelines.
	VEVOR Cast Iron Wok User Manual and Care Guide Comprehensive instructions for VEVOR cast iron woks (Models CAS001-3, CAS002-3, CAS003-3), covering first-time usage, seasoning, storage, and cleaning for optimal performance and durability.
	VEVOR Floor Heating Mat User Manual - Model SHHM Comprehensive user manual for the VEVOR Floor Heating Mat (Model SHHM), providing detailed installation instructions, safety precautions, and technical specifications for efficient home floor heating.
	VEVOR Drum Hearer GCHM-40-90 User Manual and Installation Guide Official user manual and installation guide for the VEVOR Drum Hearer, model GCHM-40-90. Includes specifications, precautions, and setup instructions for safe and effective operation.
	VEVOR Electric Radiant Floor Heating System with Uncoupling Membrane - Installation Guide Detailed installation guide for VEVOR's Electric Radiant Floor Heating System with Uncoupling Membrane. Covers models SHHC-600, SHHC-720, SHHC-960, SHHC-1200, and SHHC-1440, including safety, parts, and installation steps.

VEVOR Affordable. Reliable. Home Improvement. FLOOR HEATING MAT USER MANUAL MODEL: SHHM	VEVOR SHHM Floor Heating Mat User Manual & Installation Guide Comprehensive user manual and installation guide for the VEVOR SHHM Floor Heating Mat. Learn about safety precautions, part lists, installation steps, and technical specifications for radiant floor heating systems.