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› Taco 007-F5-7IFC Cast Iron Circulator Pump Instruction Manual

Taco 007-F5-7IFC

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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Taco 007-F5-7IFC Cast Iron Circulator Pump. The Taco 007 Residential Water Circulator Pump is designed for use in hydronic heating, chilled fresh water systems, and domestic water systems. The Taco 007-F5 pump is typically used in Residential Hydronic Heating Systems. Taco 007 residential hydronic circulators are available in cast iron or stainless steel (for potable water systems) construction with flanged connections.

2. PRODUCT FEATURES

- Casing O-Ring: 008-005RP
- Flange Gasket Set: 007-007RP
- Capacitor or PC Board: 007-002RP
- Cartridge Assembly Complete: 007-042RP
- Standard High Capacity Output
- Compact Design
- Quiet, Efficient Operation
- Unique Replaceable Cartridge Design - Field Serviceable
- Direct Drive - Low Power Consumption
- 0.04 (1/25) horsepower motor

3. SPECIFICATIONS

Specification	Value
Brand	Taco
Model Number	007-F5-7IFC
Color	Green
Material	Cast Iron
Product Dimensions	7.1"L x 7"W x 5.5"H
Power Source	Corded Electric
Item Weight	0.176 ounces (5 Grams)
Maximum Flow Rate	22 Gallons Per Minute
Maximum Lifting Height	8.5 Feet
Voltage	115 Volts
GTIN/UPC	687752539288

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Taco circulator pump. It is recommended that installation be performed by a qualified professional.

4.1 Pre-Installation Check

- Ensure the pump is the correct model for your system's requirements.
- Verify that all necessary components, such as flange gasket sets (007-007RP) and casing O-rings (008-005RP), are available.
- Inspect the pump for any visible damage from shipping.

4.2 Mounting the Pump

1. Turn off all power to the heating system and close isolation valves to prevent water flow.
2. Drain the system or the section where the pump will be installed.
3. Position the pump in the desired location, ensuring the flow arrow on the pump casing aligns with the direction of water flow in your system.
4. Secure the pump to the piping using the provided flanges and bolts. Ensure gaskets are properly seated to prevent leaks.
5. Connect the electrical wiring according to local codes and the pump's specifications (115 Volts).

4.3 System Filling and Purging

After installation, the system must be properly filled and purged of air to ensure efficient operation and prevent damage to the pump. Air trapped in the system can cause noise and reduce pump performance.

- Slowly refill the system, allowing air to escape through air vents.
- Operate the pump briefly to help circulate water and dislodge any remaining air.
- Continue to purge air until no more air bubbles are heard or seen.

5. OPERATING INSTRUCTIONS

The Taco 007-F5-7IFC circulator pump is designed for quiet and efficient operation. Once properly installed and purged of air, the pump will automatically circulate water within your hydronic heating or water system as required by your system's controls.

- Ensure the power supply to the pump is stable and matches the specified voltage (115V).
- Monitor the system for any unusual noises or vibrations during initial operation.
- The pump may run warm to the touch during operation; this is normal.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your circulator pump.

- **Annual Inspection:** Check for any signs of leaks around the flanges or casing.
- **Cartridge Replacement:** The unique replaceable cartridge design (007-042RP) allows for easy field servicing. If the pump experiences reduced performance or becomes noisy, the cartridge assembly may need inspection or replacement.
- **Gasket and O-Ring Check:** Periodically inspect the flange gasket set (007-007RP) and casing O-ring (008-005RP) for wear and tear, replacing them as needed to maintain a watertight seal.
- **System Water Quality:** Maintain appropriate water quality in your hydronic system to prevent corrosion and buildup that can affect pump performance.

7. TROUBLESHOOTING

If you encounter issues with your Taco circulator pump, refer to the following common troubleshooting steps:

- **Pump Not Running:** Check the power supply and electrical connections. Ensure the system's thermostat or control unit is calling for heat/circulation.
- **Noisy Operation / Humming:** This often indicates air trapped in the system. Ensure the system is properly purged of air. A loud humming noise can also indicate a seized impeller or motor issue.
- **No or Low Flow:** Verify that isolation valves are fully open. Check for blockages in the piping or within the pump's impeller. Ensure the impeller spins freely (after safely disconnecting power and isolating the pump).
- **Leaks:** Tighten flange bolts if necessary. If leaks persist, inspect and replace flange gaskets (007-007RP) or casing O-ring (008-005RP).
- **Temperature Sensitivity:** The pump is designed to handle water temperatures up to 240°F (116°C). Operation above this temperature can cause damage. Ensure your system's temperature controls are functioning correctly.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC professional or Taco customer support.

8. PRODUCT IMAGES



Figure 1: Taco 007-F5-7IFC Circulator Pump with key dimensions. The pump is green cast iron, featuring a motor housing and flanged connections. The label indicates 'CARTRIDGE CIRCULATOR MODEL 007-F5, HP 1/25, AMP .71, VOLTS 115V, HZ 60, RPM 3250, MAX PRESSURE 125 PSI, MAX WATER TEMP 116°C (240°F)'. The label also includes a warning section and the Taco logo.

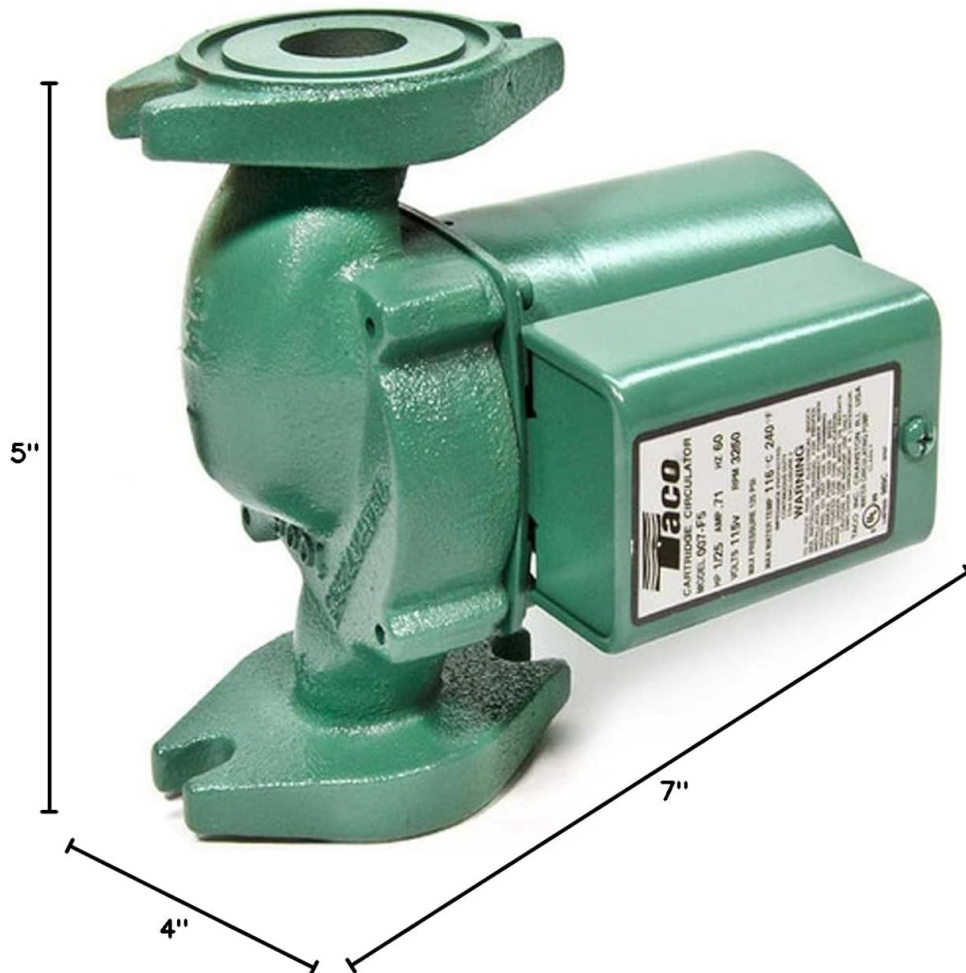


Figure 2: Side view of the Taco 007-F5-71FC Circulator Pump, highlighting the motor housing and the connection point for electrical conduit. The pump is connected to a pipe system.

9. OFFICIAL PRODUCT VIDEOS

9.1 Taco Cast Iron Circulator Water Pump Overview

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This video provides a general overview of the Taco Cast Iron Circulator Water Pump with Integral Flow Check, showcasing its design and typical application in a heating system. Duration: 0:17.

9.2 Detailed Look at Taco Cast Iron Circulator Pump

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A more detailed video presentation of the Taco Cast Iron Circulator Pump, highlighting its features and components. Duration: 0:44.

10. WARRANTY INFORMATION

Taco products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Taco website. Keep your purchase receipt as proof of purchase for any warranty claims.

11. CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact Taco customer support. Contact information can typically be found on the product packaging, the official Taco website, or through your authorized dealer.