

## Taco 0015-MSF3-IFC

# Taco 0015-MSF3-IFC 3-Speed Cast Iron Circulator Pump User Manual

Model: 0015-MSF3-IFC

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Taco 0015-MSF3-IFC 3-Speed Cast Iron Circulator Pump. Please read these instructions thoroughly before proceeding with installation or operation to ensure safe and efficient performance.

The Taco 0015-MSF3-IFC is a high-efficiency, three-speed circulator designed for hydronic heating and cooling systems. It features an Internal Flow Check (IFC) to prevent gravity flow and simplify installation.

## 2. SAFETY INFORMATION

**WARNING: Risk of Electric Shock. Disconnect power before servicing.**

**WARNING: Risk of Burns. Pump and piping may be hot. Allow to cool before handling.**

- Ensure all electrical wiring is performed by a qualified electrician and complies with local codes and regulations.
- Verify that the power supply matches the pump's voltage requirements (115 Volts).
- Do not operate the pump without water in the system. Dry running can cause severe damage.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Keep children and unauthorized personnel away from the pump during operation.

## 3. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and efficiency of your circulator pump.

### 3.1 Unpacking

Carefully remove the circulator from its packaging. Inspect for any visible damage. Report any damage to the carrier immediately.

## 3.2 Mounting

The circulator can be mounted in any position, provided the motor is horizontal. Ensure adequate space for wiring and future maintenance.



**Image Description:** A side view of the Taco 0015-MSF3-IFC circulator pump, showing the cast iron pump body and the motor housing. This view illustrates the typical orientation for installation within a piping system.

## 3.3 Piping Connections

The circulator is designed for use with standard flanges. Ensure all connections are tight to prevent leaks. Use appropriate pipe dope or Teflon tape on threaded connections.



**Image Description:** A view of the Taco 0015-MSF3-IFC circulator pump from an angle, highlighting the flange connections on both sides of the pump body. This shows where the pump connects to the system's piping.

### 3.4 Electrical Wiring

The circulator requires a 115 Volt AC power supply. Refer to the wiring diagram located inside the terminal box cover. Ensure proper grounding.



**Image Description:** An internal view of the Taco 0015-MSF3-IFC circulator pump's electrical compartment, showing the wiring connections. This image is for reference during electrical installation, emphasizing the importance of correct wiring.

1. Turn off the main power supply to the circuit before beginning any wiring.
2. Remove the terminal box cover.
3. Connect the power supply wires to the appropriate terminals as indicated by the internal diagram.
4. Secure all connections and replace the terminal box cover.

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## 4. OPERATING INSTRUCTIONS

The Taco 0015-MSF3-IFC circulator features three speed settings, allowing for optimization of system performance and energy consumption.



**Image Description:** A front view of the Taco 0015-MSF3-IFC circulator pump, clearly showing the product label with specifications and the speed selector switch. The label details voltage, frequency, max pressure, max water temperature, and power consumption for each of the three speeds.

## 4.1 Speed Selection

A selector switch on the motor housing allows you to choose between three operating speeds (1, 2, or 3). Refer to the product label for specific wattage and amperage ratings for each speed.

- **Speed 1:** Lowest flow and head, lowest power consumption.
- **Speed 2:** Medium flow and head, moderate power consumption.
- **Speed 3:** Highest flow and head, highest power consumption.

Select the speed that best matches your system's requirements for optimal performance and energy efficiency.

## 4.2 Internal Flow Check (IFC)

The integrated IFC eliminates the need for an external check valve, preventing gravity circulation in hydronic systems when the pump is off. This feature is automatic and requires no user intervention.

### 4.3 Initial Start-up

1. Ensure the system is filled with water and properly vented to remove all air.
2. Verify all electrical connections are secure.
3. Turn on the power supply to the circulator.
4. Observe the pump for smooth operation and check for any leaks.

## 5. MAINTENANCE

The Taco 0015-MSF3-IFC circulator is designed for continuous duty and requires minimal maintenance. However, periodic checks can extend its lifespan.

- **Annual Inspection:** Check for any signs of leaks around the flanges or motor housing.
- **Noise Check:** Listen for unusual noises, which could indicate bearing wear or cavitation.
- **System Water Quality:** Maintain proper system water quality to prevent corrosion and scale buildup, which can affect pump performance.
- **Cleaning:** Keep the exterior of the pump clean and free of dust and debris to ensure proper heat dissipation.

## 6. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start	No power; Blown fuse/tripped breaker; Motor seized	Check power supply; Reset breaker/replace fuse; Contact qualified service personnel.
Pump runs but no flow	Air in system; Closed isolation valves; Clogged impeller	Vent system; Open valves; Inspect/clean impeller (requires professional service).
Excessive noise/vibration	Air in system; Cavitation; Worn bearings; Improper mounting	Vent system; Ensure adequate system pressure; Contact qualified service personnel; Check mounting.
Leaking from pump	Loose flange connections; Damaged gasket/seal	Tighten flange bolts; Replace gasket/seal (requires professional service).

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

## 7. SPECIFICATIONS

- **Model:** 0015-MSF3-IFC
- **Brand:** Taco

- **Material:** Cast Iron
- **Horsepower:** 1/20 HP
- **Voltage:** 115 Volts
- **Frequency:** 60 Hz
- **Speeds:** 3 (Selectable)
- **Max Pressure:** 125 PSI
- **Max Water Temperature:** 110°C / 230°F
- **Internal Flow Check (IFC):** Yes
- **Enclosure Type:** 2
- **Duty:** Continuous Duty
- **Item Weight:** Approximately 7 Pounds
- **UPC:** 687752908343

## 8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact Taco, Inc. directly. Warranty terms typically cover manufacturing defects for a specified period from the date of manufacture or purchase.


**Manufacturer:** Taco, Inc.

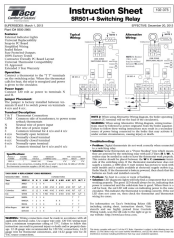
**Contact:** Please visit the official Taco, Inc. website for current contact information and technical support resources.



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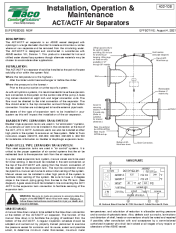
### Related Documents - 0015-MSF3-IFC

	<p><a href="#">Taco 0026e ECM High-Efficiency Circulator Instruction Sheet</a></p> <p>Instruction sheet for the Taco 0026e ECM High-Efficiency Circulator, detailing its features, applications, installation, wiring, programming, and troubleshooting. This variable speed circulator offers significant energy savings and replaces older single and 3-speed models.</p>
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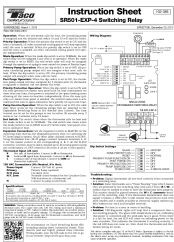
### [Taco SR501-4 Switching Relay Instruction Sheet and Wiring Guide](#)

Detailed instruction sheet for the Taco SR501-4 Switching Relay, covering features, operation, wiring diagrams, specifications, troubleshooting, and warranty information for HVAC professionals.



### [Taco ACT/ACTF Air Separator Installation, Operation & Maintenance Manual](#)

Comprehensive guide for installing, operating, and maintaining Taco ACT/ACTF Air Separators. Covers system types, maintenance procedures, safety warnings, and typical piping diagrams for hydronic heating and cooling systems.



### [Taco SR501-EXP-4 Switching Relay: Installation and Operation Guide](#)

Comprehensive instruction sheet for the Taco SR501-EXP-4 Single Zone Expandable Switching Relay. Covers operation, wiring diagrams, specifications, troubleshooting, and warranty for HVAC heating systems.



### [Taco ZVC406-5 Zone Valve Control: Installation and Operation Manual](#)

Comprehensive guide for the Taco ZVC406-5 Zone Valve Control, covering installation, operation, wiring, specifications, troubleshooting, and warranty information. Learn how to optimize heating system comfort and efficiency.



### [Taco Timer and Aquastat Instruction Sheet - Installation and Operation](#)

Detailed instruction sheet for Taco's Timer and Aquastat combination units (models 265-1, 265-3, 563-2). Covers application, installation, electrical hook-up, analog and digital timer programming, and warranty information.