

## Taco 0012-SF4

# Taco 0012-SF4 Circulator Pump Instruction Manual

Model: 0012-SF4

## 1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Taco 0012-SF4 Circulator Pump. Please read these instructions thoroughly before installation and keep this manual for future reference. Proper installation and maintenance will ensure optimal performance and longevity of the pump.

## 2. SAFETY INFORMATION

**WARNING:** Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- Always disconnect power before installing or servicing the pump.
- Installation and wiring must be performed by a qualified electrician or plumber in accordance with all local codes and regulations.
- Ensure the pump is properly grounded to prevent electrical shock.
- Do not operate the pump if it is damaged or has exposed wiring.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- This pump is designed for hydronic circulation applications. Do not use for other purposes.

## 3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- Taco 0012-SF4 Circulator Pump Unit
- Flange Set (if included with specific model variant)
- Gaskets
- Instruction Manual (this document)

## 4. PRODUCT OVERVIEW

The Taco 0012-SF4 is a high-performance stainless steel circulator pump designed for hydronic heating and cooling systems. It is suitable for medium head applications requiring high flow rates, making it ideal for large residential and light commercial use.



**Figure 1:** Taco 0012-SF4 Circulator Pump. This image shows the main body of the stainless steel circulator pump with its motor housing and inlet/outlet connections.

## Key Features:

- **Simplicity in Design:** The "00" series circulators are known for their straightforward and reliable construction.
- **Self-Lubricating:** Eliminates the need for a mechanical seal, enhancing reliability and reducing maintenance.
- **Removable Cartridge:** All moving parts are contained within a removable cartridge for easy servicing.
- **Direct-Drive Design:** Powerful pumps are supported by an efficient direct-drive mechanism.
- **Motor:** Operates with a 0.125 (1/8) horsepower motor.
- **Universal Flange-to-Flange Dimension:** Facilitates quick and easy installation, including replacement of existing pumps.

## 5. SETUP AND INSTALLATION

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Installation should only be performed by qualified personnel. Ensure all local plumbing and electrical codes are met.

### 5.1 Mounting the Pump

1. Choose a suitable location for the pump, ensuring it is accessible for maintenance and protected from freezing temperatures.
2. The pump can be installed in either horizontal or vertical piping, but the motor must always be above the pump volute to prevent air pockets.
3. Use the provided flanges and gaskets to connect the pump to the system piping. Ensure a tight, leak-free seal.
4. The universal flange-to-flange dimension allows for direct replacement of many existing circulators.

### 5.2 Electrical Connections

1. Verify that the power supply matches the pump's voltage requirements (refer to the pump label).
2. Connect the pump to a dedicated electrical circuit with appropriate overcurrent protection.
3. Ensure proper grounding according to local electrical codes.
4. All wiring connections must be secure and insulated.

### 5.3 System Filling and Purging

1. After plumbing connections are complete, fill the hydronic system with water.
2. Thoroughly purge all air from the system to prevent cavitation and ensure proper pump operation.
3. Check for leaks at all connections.

## 6. OPERATING INSTRUCTIONS

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Once installed and the system is filled and purged, the Taco 0012-SF4 circulator pump is ready for operation.

1. Ensure the system is fully pressurized and free of air.
2. Turn on the electrical power to the pump. The pump will begin circulating fluid through the system.
3. Monitor the system for proper flow and listen for any unusual noises, which could indicate air in the system or an issue with the pump.
4. The pump is designed for continuous operation within its specified parameters.

## 7. MAINTENANCE

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The Taco 0012-SF4 circulator pump is designed for minimal maintenance due to its self-lubricating design and durable components.

- **Annual Inspection:** Periodically inspect the pump for any signs of leaks, corrosion, or unusual noises.
- **Cartridge Replacement:** If the pump requires servicing, the entire moving assembly is contained within a removable cartridge, simplifying replacement. Refer to a qualified technician for cartridge replacement.

- **Cleaning:** Keep the exterior of the pump clean and free from debris to ensure proper heat dissipation.
- **No Lubrication Required:** The pump's design eliminates the need for external lubrication.

## 8. TROUBLESHOOTING

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Before attempting any troubleshooting, always disconnect power to the pump. If you are unsure about any step, consult a qualified professional.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty wiring; seized motor.	Check power supply and circuit breaker. Verify wiring connections. If motor is seized, professional service or cartridge replacement may be required.
No flow or low flow	Air in system; closed valves; clogged impeller; incorrect pump rotation.	Purge air from the system. Ensure all isolation valves are open. Inspect impeller for obstructions (requires professional service). Verify correct electrical phasing if applicable.
Excessive noise or vibration	Air in system (cavitation); loose mounting; worn bearings; foreign object in pump.	Purge air from the system. Tighten mounting bolts. If noise persists, professional inspection for worn bearings or foreign objects is recommended.
Leaking from pump	Loose flange connections; damaged gaskets; cracked housing.	Tighten flange bolts. Replace damaged gaskets. If housing is cracked, the pump may need replacement.

## 9. SPECIFICATIONS

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Model Number	0012-SF4
Manufacturer	Taco
Material	Stainless Steel
Power Source	AC/DC
Motor Horsepower	0.125 (1/8) HP
Item Weight	13.25 pounds
Product Dimensions	5 x 4 x 7 inches
Part Number	GID-523073

## 10. WARRANTY AND SUPPORT

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For specific warranty information, please refer to the documentation provided with your purchase or visit the official Taco website. For technical support, replacement parts, or service inquiries, please contact Taco customer service directly. Ensure you have your model number (0012-SF4) and purchase date available when contacting support.

*Contact information for Taco can typically be found on their official website or on the product packaging.*

