2067541

Generic Top S 1.25 x 15, 2-Speed Cast Iron Circulator (Model 2067541) Instruction Manual

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Generic Top S 1.25 x 15, 2-Speed Cast Iron Circulator, Model 2067541. Please read these instructions thoroughly before beginning any work with the circulator pump to ensure proper function and to prevent personal injury or damage to the equipment.

The circulator pump is designed for use in hot water heating systems, air conditioning, closed cooling circuits, and industrial circulation systems.

2. Safety Instructions

Adherence to these safety instructions is crucial for safe operation and to prevent hazards. Keep this manual accessible for future reference.

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (230V, 1 PH). Disconnect power before any installation or maintenance. All electrical work must be performed by a qualified electrician in accordance with local codes.
- **Temperature:** The pump handles fluids within a temperature range of 14°F to 248°F (-10°C to 120°C). Exercise caution when working with hot fluids to avoid burns.
- **Pressure:** The maximum operating pressure is 145 PSI. Do not exceed this pressure.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from freezing temperatures and direct sunlight. Ensure proper support for the pump and piping.
- **Maintenance:** Only perform maintenance tasks described in this manual. For complex repairs, contact a qualified service technician.

3. Product Features

The Generic Top S Circulator pump offers the following key features:

- Single-stage wet rotor pump with flanged connection.
- Two pre-selectable speed stages for capacity adjustment.
- Robust cast iron body suitable for various heating and cooling systems.
- Sturdy cast aluminum electrical box.
- Short flange-to-flange dimension for compact installation.
- Automatically vented design.

- No mechanical seal, reducing maintenance requirements.
- Simple installation process.
- Quiet and maintenance-free operation.
- Thermal overload motor protection.
- Power-on indicator light.
- Cable feed from both sides to facilitate installation.

4. Technical Specifications

Image 1: Generic Top S 1.25 x 15 2-Speed Cast Iron Circulator Pump. This image displays the circulator pump with its green motor housing and black cast iron body, along with the electrical box.

Table 1: Circulator Pump Specifications

Specification	Value
Model Number	2067541
Type	2-Speed Pump
Application	Heating
Material	Cast Iron (Pump Housing), Engineered Composite (Impeller), Stainless Steel (Shaft), Metal-impregnated Carbon (Bearing)
Voltage	230V
Phase	1 PH
Hertz	60 Hz
Horse Power	1/8 HP
RPM	3200
Speeds	2
Max Pressure	145 PSI
Max Flow	27 GPM
Max Head	18.4 Ft
Temperature Range	14°F - 248°F (-10°C - 120°C)

Specification	Value
Connection Size	1-1/4"
Connection Type	Flanged

5. Setup and Installation

Proper installation is critical for the circulator's performance and longevity. Consult a qualified professional if you are unsure about any step.

1. **System Preparation:** Ensure the system is drained and depressurized before installation.
2. **Mounting Location:** Select a location that allows for easy access for maintenance, is protected from environmental extremes, and provides adequate ventilation. The pump should be installed horizontally with the motor shaft in a horizontal position.
3. **Piping Connection:** Connect the pump to the system piping using appropriate flanges and gaskets. Ensure connections are tight to prevent leaks. Avoid putting strain on the pump housing from misaligned pipes.
4. **Electrical Connection:**
    - Verify the power supply (230V, 1 PH, 60Hz) matches the pump's requirements.
    - Route the electrical cable through the designated entry points on the sturdy cast aluminum electrical box. The cable feed can be from either side.
    - Connect the wires according to the wiring diagram provided inside the electrical box cover. Ensure proper grounding.
    - Secure all electrical connections and close the electrical box cover.
5. **System Filling and Venting:** After installation, slowly fill the system with fluid. The pump is automatically vented, but it is good practice to manually vent the system if air pockets are suspected.

6. Operation

The circulator pump features two pre-selectable speed stages to adjust capacity based on system requirements.

1. **Initial Start-up:** After ensuring the system is filled and vented, switch on the power supply to the pump. The power-on indicator light should illuminate.
2. **Speed Selection:** Locate the speed selector switch on the pump's motor housing. This switch allows you to choose between two distinct operating speeds.
    - Select the lower speed for reduced flow and energy consumption.
    - Select the higher speed for increased flow and head, suitable for systems requiring greater circulation.

    Adjust the speed as needed to achieve optimal system performance and comfort.
3. **Monitoring:** Observe the system for proper circulation and listen for any unusual noises. The pump is designed for quiet operation.

7. Maintenance

The Generic Top S Circulator is designed to be largely maintenance-free due to its wet rotor design and lack of mechanical seals. However, periodic checks are recommended.

- **Annual Inspection:** Annually inspect the pump for any signs of external leaks, corrosion, or damage to the electrical cable and connections.
- **System Fluid Quality:** Ensure the system fluid is clean and free of debris that could impede pump operation.
- **Cleaning:** Keep the exterior of the pump clean and free of dust or dirt buildup to ensure proper heat dissipation.
- **No Lubrication Required:** The wet rotor design means the bearings are lubricated by the system fluid, requiring no external lubrication.

8. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact a qualified service technician.

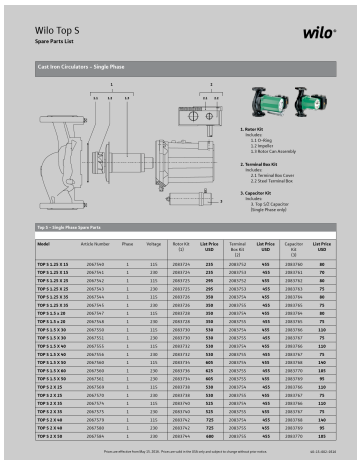
Table 2: Troubleshooting Guide

Problem	Possible Cause	Solution
Pump does not start	No power supply; Blown fuse/tripped breaker; Motor thermal overload activated; Impeller jammed.	Check power connections and circuit breaker. Allow motor to cool if overloaded. Disconnect power and inspect impeller for obstructions.
Pump runs but no flow or low flow	Air in system; Closed valves; Clogged impeller/piping; Incorrect speed setting.	Vent the system. Open all necessary valves. Disconnect power and check for obstructions. Adjust speed setting to higher.
Excessive noise/vibration	Air in system; Cavitation; Loose mounting; Foreign object in pump.	Vent the system. Ensure adequate system pressure. Check mounting bolts. Disconnect power and inspect pump for foreign objects.
Leakage from pump	Loose flange connections; Damaged gaskets.	Tighten flange bolts. Replace damaged gaskets.

9. Disposal

When the circulator pump reaches the end of its service life, it should be disposed of in an environmentally responsible manner. Do not dispose of electrical appliances with household waste. Please recycle where facilities exist. Contact your local authority for advice on recycling and disposal.

The materials used in this product, such as cast iron, stainless steel, and engineered composites, can often be recycled.



[pdf] Parts List

Wilo® TOP S 15X50 115V Auer Steel Wilo USA 2067542 Part List auersteel ASSETS DOCUMENTS ITEMS EN |||

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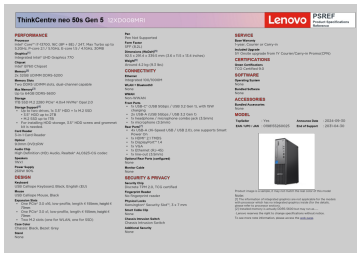

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