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Zoeller 292-0001

Zoeller 292-0001 M292 Submersible Sewage/Effluent Pump Instruction Manual

Model: 292-0001

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Zoeller Model 292-0001 M292 High Head Waste-Mate Automatic Cast Iron Single Phase Submersible Sewage/Effluent Pump. Please read these instructions thoroughly before installation or operation to ensure proper function and to prevent injury or damage.

The Zoeller M292 is designed for handling sewage and effluent, featuring a robust cast iron construction and a non-clogging vortex impeller capable of passing 2-inch spherical solids. It is equipped with an automatic float-operated switch for reliable operation.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

- Always disconnect power to the pump before handling or servicing.
- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Do not operate the pump in an explosive atmosphere.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Do not pump flammable or corrosive liquids.
- This pump is not intended for use in swimming pools or marine areas.

SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your Zoeller M292 pump. Consult a qualified professional for installation if you are unsure.

Unpacking and Inspection

Carefully remove the pump from its packaging. Inspect for any visible damage that may have occurred during shipping. Report any damage to your supplier immediately.



Image: Zoeller 292-0001 M292 Submersible Sewage/Effluent Pump. This image shows the pump from a side angle, highlighting its cast iron body and discharge port.

Location Requirements

- Install the pump in a sump basin or lift station designed for sewage/effluent applications.
- Ensure the basin is adequately sized to prevent frequent cycling of the pump.
- The pump must be placed on a solid, level surface within the basin.

Piping Connections

- Connect the pump to a 2-inch NPT female flanged vertical discharge pipe.
- Use a check valve in the discharge line to prevent backflow.
- Ensure all piping is properly supported and sealed to prevent leaks.

Electrical Connections

- The pump operates on 115 Volts.
- Connect the 20-foot, 3-wire neoprene cord to a dedicated, properly grounded electrical circuit with appropriate overcurrent protection.
- Verify that the power supply matches the pump's voltage requirements.
- The float switch is factory-set for automatic operation. Ensure it has free movement within the sump. On point: 14-3/4 inches, off point: 5 inches.

OPERATING INSTRUCTIONS

The Zoeller M292 pump is designed for automatic operation via its float switch.

Automatic Operation

- Once properly installed and connected to power, the pump will activate automatically when the liquid level rises to the "on" point (approximately 14-3/4 inches).
- The pump will continue to operate until the liquid level drops to the "off" point (approximately 5 inches), at which time it will shut off.
- Ensure the float switch is not obstructed by debris or the basin walls.

Initial Start-up

- After installation, fill the sump basin with water to verify proper operation of the float switch and pump.
- Observe the pump cycling on and off to confirm it functions as expected.
- Listen for unusual noises or vibrations, which may indicate an issue.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump. Always disconnect power before performing any maintenance.

Routine Checks (Monthly)

- **Inspect Float Switch:** Ensure the float switch moves freely and is not obstructed by debris or sludge.
- **Check for Debris:** Periodically inspect the sump basin for excessive buildup of solids or foreign objects that could interfere with pump operation or clog the impeller.
- **Verify Discharge Line:** Ensure the discharge pipe is clear and free of obstructions.
- **Listen for Abnormal Noises:** Unusual grinding, rattling, or humming sounds may indicate a problem.

Cleaning

- If the pump or basin becomes excessively dirty, disconnect power, remove the pump, and clean it thoroughly with water.
- Pay attention to the impeller area to ensure it is free of any fibrous material or solids.

Winterization (if applicable)

If the pump is installed in an area subject to freezing temperatures and will not be used, it should be removed, cleaned, and stored in a warm, dry location to prevent damage from freezing water.

TROUBLESHOOTING

Before attempting any repairs, always disconnect the pump from the power source. Consult a qualified service technician for complex issues.

Problem	Possible Cause	Solution
Pump does not run.	No power; tripped circuit breaker; faulty float switch; motor overload.	Check power supply and circuit breaker. Inspect float switch for obstruction or damage. Allow motor to cool if thermal overload tripped.
Pump runs but does not pump water.	Clogged impeller; air lock; discharge pipe obstruction; low water level.	Disconnect power and clear impeller. Ensure pump is fully submerged. Check discharge line for blockages.
Pump runs continuously.	Float switch stuck in "on" position; continuous inflow; faulty check valve.	Inspect float switch for obstruction. Verify inflow rate. Check and replace faulty check valve.
Pump cycles too frequently.	Sump basin too small; faulty check valve; float switch setting.	Consider a larger basin. Inspect check valve. Adjust float switch if possible (consult manual for specific model).

SPECIFICATIONS

- **Model:** Zoeller 292-0001 M292
- **Type:** High Head Waste-Mate Automatic Submersible Sewage/Effluent Pump
- **Construction:** Powder coated cast iron housing, switch case, motor housing, and base
- **Impeller:** Bronze, non-clogging vortex impeller, passes 2-inch spherical solids
- **Motor:** 1/2 Horsepower, 115 Volts, Single Phase, Oil-filled, hermetically sealed with automatic reset thermal overload protection
- **Discharge:** 2-inch NPT female flanged vertical discharge
- **Maximum Flow Rate:** 140 Gallons Per Minute (with 5-foot head)
- **Shut-off Head:** 42 Feet
- **On Point:** 14-3/4 inches
- **Off Point:** 5 inches
- **Cord:** 20-Foot, 3-wire neoprene cord
- **Maximum Liquid Temperature:** 130°F (54°C)
- **Dimensions (Approximate):** 19.31" L x 12.88" W x 19.31" H
- **Item Weight:** 87 Pounds
- **Manufacturer:** Zoeller

WARRANTY INFORMATION

The Zoeller 292-0001 M292 pump typically comes with a warranty of **12 months from the date of installation or 18 months from the date of manufacture**, whichever occurs first. This warranty covers defects in materials and workmanship under normal use.

Important: Abuse or misapplication of the pump can void this warranty. Always refer to the official warranty documentation provided with your product for complete terms and conditions.

SUPPORT AND CONTACT

For technical assistance, replacement parts, or warranty claims, please contact Zoeller customer support or your authorized dealer.

Visit the official Zoeller website for additional resources and contact information: www.zoellerpumps.com

When contacting support, please have your pump's model number (292-0001) and date of purchase readily available.

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