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› MSELTOS MD-TPS-20 HVAC Condensate Pump User Manual

## MSELTOS MD-TPS-20

# MSELTOS MD-TPS-20 HVAC Condensate Pump User Manual

Model: MD-TPS-20 | Brand: MSELTOS

## 1. PRODUCT OVERVIEW

The MSELTOS MD-TPS-20 is a compact and efficient condensate pump designed for automatic removal of condensate from various gravity drainage equipment. It features a 1/30 HP motor, a maximum flow rate of 132 GPH, and a maximum lift of 20 feet. This pump is suitable for use with air conditioners, dehumidifiers, commercial ice makers, furnaces, and boilers.

Key features include an automatic safety switch, three work indicator lights for easy status monitoring, and a 0.6-gallon reservoir. The unit is designed for user-friendly installation and maintenance.

# Suitable for HVAC Professionals and Gravity Drainage Appliances

- Dehumidifiers 👍 ★★★★★
- Portable AC Units and Air Conditioning Systems
- Commercial Ice Makers
- Furnaces
- Boilers



Figure 1: The MSELTOS MD-TPS-20 Condensate Pump is compatible with dehumidifiers, portable AC units, commercial ice makers, furnaces, and boilers.

Video 1: An overview of the MSELTOS Tank Condensate Pump MD-TPS-20, highlighting its universal application for air conditioners, dehumidifiers, ice makers, furnaces, and boilers. It demonstrates the 20 ft max head and 132 GPH max flow, four 1.1-inch water inlets with dust covers, a barbed water outlet with a built-in check valve, a gradienter, three working indicator lights, and the safety switch connection point. The video also shows the included instruction manual, four zip ties, and 20 ft silicone tubing.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your condensate pump. Please follow these instructions carefully.

### 2.1 Unpacking and Components

Before installation, ensure all components are present:

- Condensate Pump x 1
- 20 ft Tubing x 1
- Safety Switch Wire x 1

- Zip Ties x 4
- Instruction Manual x 1

## Parts In The Box



**Condensate Pump x 1**



**20 ft Tubing x 1**



**Safety Switch Wire x 1**



**Zip tie x 4**

Figure 2: The package contents include the condensate pump, 20 ft tubing, safety switch wire, and four zip ties.

### 2.2 Placement

Install the condensate pump in a horizontal position. The integrated spirit level on the pump's top cover can assist in ensuring proper horizontal alignment.

# Powerful & Easy To Use

**MAX. HEAD**

**20 FT**

**MAX. FLOW**

**132 GPH**

**VOLTAGE**

**110-240V**



Figure 3: The pump features a spirit level for horizontal placement, 1.1-inch I.D. water inlets with dust covers, and a 2/5-inch O.D. barbed water outlet with a built-in check valve.

## 2.3 Connecting Water Inlets and Outlet

The pump is equipped with four 1.1-inch I.D. water inlets, allowing connection to multiple pieces of equipment. These inlets come with dust covers. The 2/5-inch O.D. barbed outlet includes a built-in check valve to prevent water backflow. Connect the provided 20 ft tubing to the outlet and route it to a suitable drainage point.

## 2.4 Safety Switch Connection

The pump includes a safety switch function. Connect the provided safety switch wire to the designated metal joints on the side of the pump. This wire can be integrated into your HVAC system to automatically shut off the appliance in case of a potential overflow, preventing water damage. If you are unsure about connecting the safety switch, consult a professional.

# Safety Switch

Automatically shut down the AC system when there is a risk of overflow

The length of the safety switch wire is **5 ft**



Figure 4: The safety switch connection point on the pump, designed to automatically shut down the AC system if an overflow risk is detected. The safety switch wire is 5 ft long.

Video 2: This video demonstrates the unboxing and key features of the MSELTOS Condensate Pump. It highlights the inclusion of a 20 ft tubing, the four water inlets with dust covers, the water outlet with a check valve, the spirit level, the working status indicator lights, and the connection point for the safety switch wire.

## 3. OPERATING INSTRUCTIONS

The MSELTOS MD-TPS-20 condensate pump operates automatically, detecting water levels and initiating pumping as needed.

### 3.1 Automatic Drainage

The pump automatically detects the water level in its 0.6-gallon reservoir. When the water reaches a certain level, the pump activates to remove the condensate, preventing overflow. It will automatically stop once the water level drops.

# Auto & Quiet Drainage

- *Lower Than 30 dB Working Noise*
- *Auto Start & Stop*

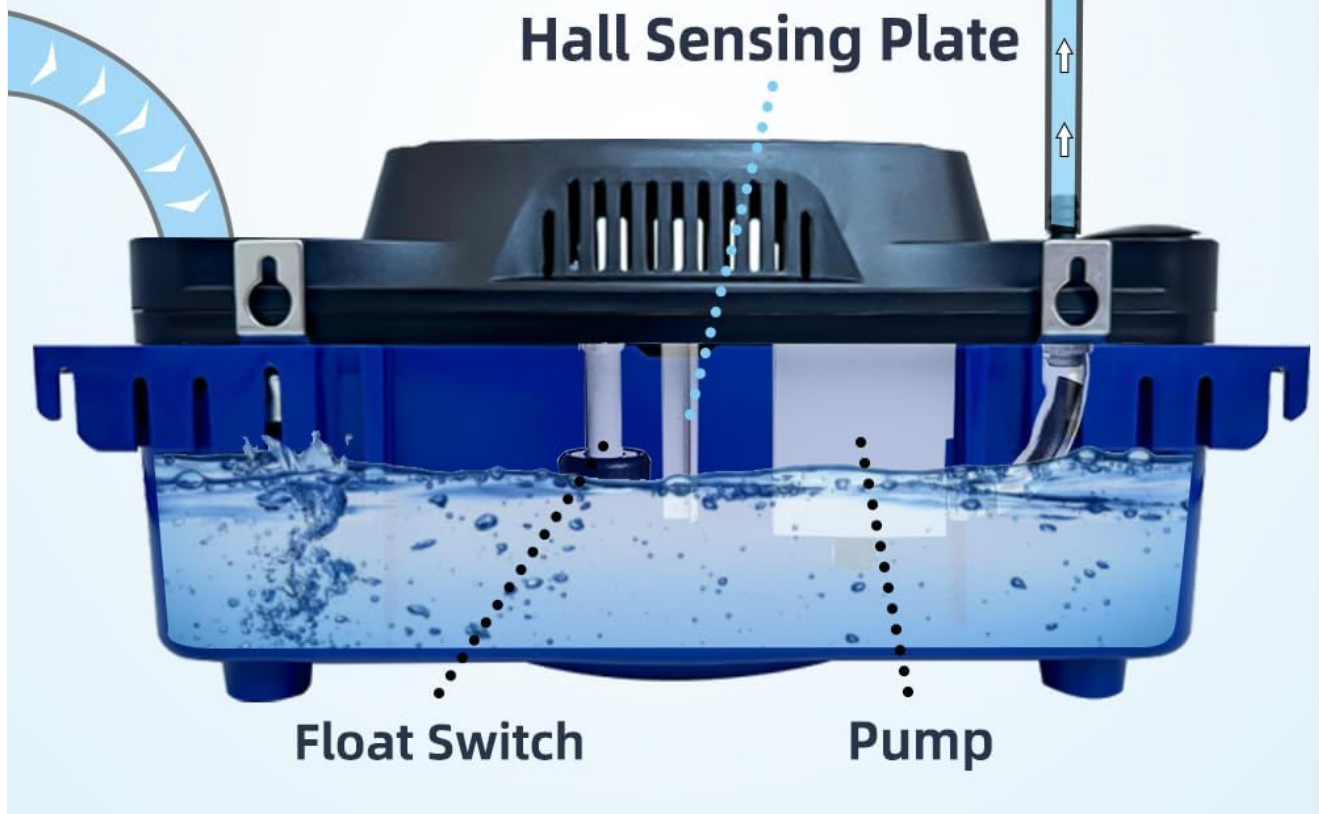


Figure 5: The pump utilizes a float switch and Hall sensing plate for automatic start/stop operation, maintaining a low working noise level below 30 dB.

## 3.2 Indicator Lights

The pump features three indicator lights on its panel to communicate its operational status:

- **Green Light (READY):** Indicates that the pump is connected to power.
- **Yellow Light (PUMPING):** Indicates that the pump is actively working and draining water.
- **Red Light (ALARM):** Indicates a risk of overflow. An audible alarm will also sound simultaneously.

# Overflow Alarm & 3 Work Indicator Light

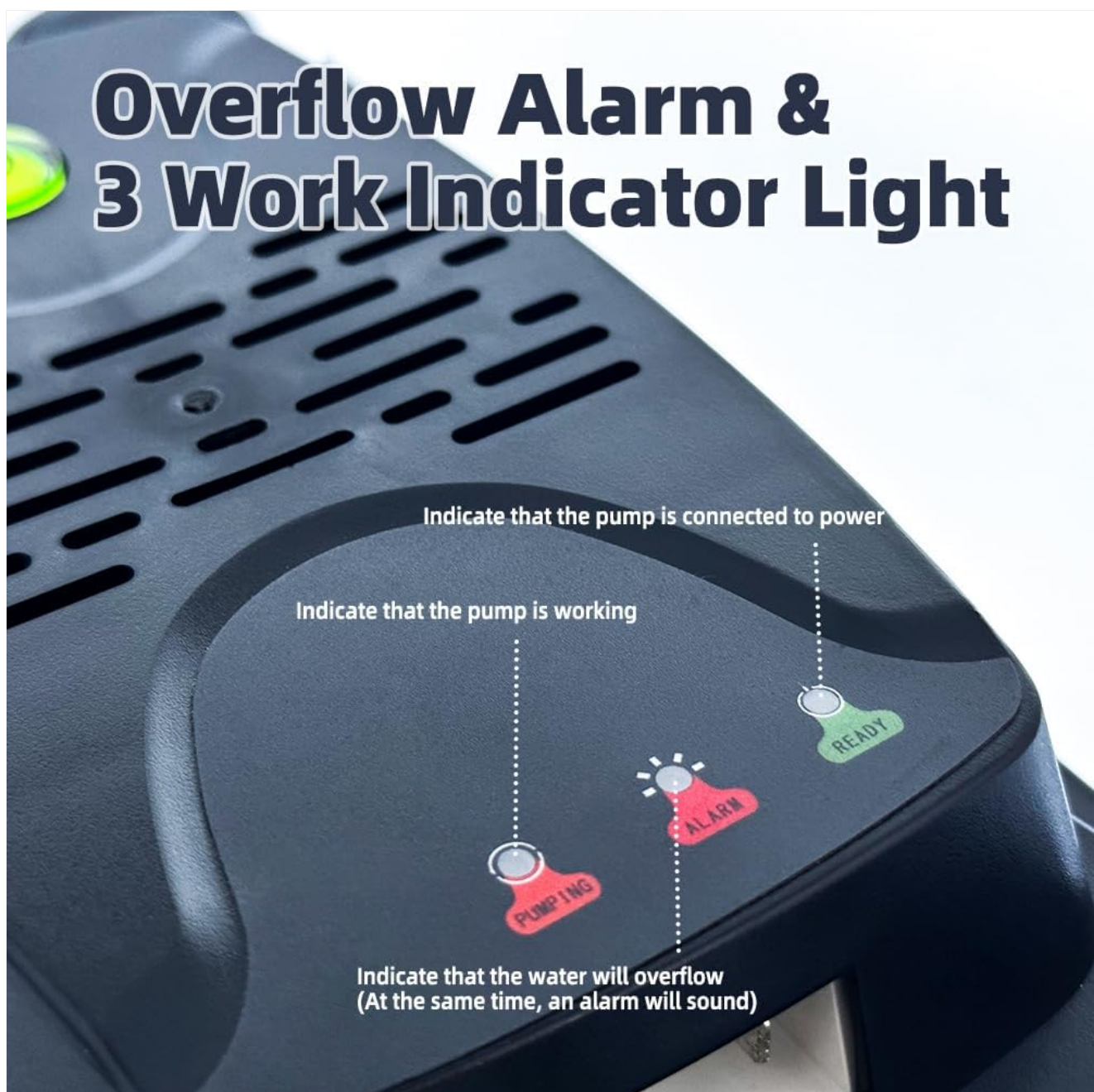


Figure 6: The three indicator lights (Green: Power, Yellow: Pumping, Red: Alarm) provide visual feedback on the pump's status.

## 4. MAINTENANCE

Regular maintenance ensures the efficient operation and extends the lifespan of your condensate pump.

### 4.1 Reservoir Cleaning

The 0.6-gallon reservoir is made of specially treated plastic designed to resist dirt accumulation. However, periodic cleaning is recommended to prevent clogging and ensure proper function. Disconnect power before cleaning. Remove the top cover and clean the inside of the reservoir with mild soap and water. Rinse thoroughly.

### 4.2 Tubing Inspection

Periodically inspect the 20 ft drainage tubing for any kinks, blockages, or damage. Ensure the tubing remains clear to allow for unobstructed water flow.

## 5. TROUBLESHOOTING

If you encounter issues with your condensate pump, refer to the following common problems and solutions:

| Problem                                      | Possible Cause                                                                                                                                                       | Solution                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump not running / No green light            | No power supply                                                                                                                                                      | Check power connection and outlet. Ensure the power cord is securely plugged in.                                                                                                                                                                                                                             |
| Pump not draining water / Red alarm light on | <ul style="list-style-type: none"> <li>• Clogged inlet/outlet or tubing</li> <li>• Float switch malfunction</li> <li>• Water inflow exceeds pump capacity</li> </ul> | <ul style="list-style-type: none"> <li>• Inspect and clear any blockages in the inlets, outlet, or tubing.</li> <li>• Clean the reservoir and check the float switch for free movement.</li> <li>• Ensure the pump's capacity (132 GPH) is sufficient for your equipment's condensate production.</li> </ul> |
| Excessive noise during operation             | <ul style="list-style-type: none"> <li>• Pump not level</li> <li>• Vibrations</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>• Ensure the pump is placed on a horizontal, stable surface using the built-in spirit level.</li> <li>• Check for any objects touching the pump that could cause vibration.</li> </ul>                                                                                |

If the problem persists after attempting these solutions, please contact customer support.

## 6. SPECIFICATIONS

Detailed technical specifications for the MSELTOS MD-TPS-20 Condensate Pump:

# Product Specifications



|                   |                               |
|-------------------|-------------------------------|
| DIMENSIONS        | 12.7"(L) × 5.51"(W) × 6.1"(H) |
| WEIGHT            | 2.89 LBS                      |
| POWER CORD LENGTH | 7'                            |
| WATER OUTLET O.D. | 2/5"                          |
| WATER INLET I.D.  | 1.1"                          |

Figure 7: Visual representation of the pump's dimensions and key specifications.

| Feature                | Specification                     |
|------------------------|-----------------------------------|
| Brand                  | MSELTOS                           |
| Model Number           | MD-TPS-20                         |
| Power Source           | AC                                |
| Voltage                | 115 Volts (AC)                    |
| Horsepower             | 1/30 HP (30 Watts)                |
| Maximum Flow Rate      | 132 GPH (2.16 Gallons Per Minute) |
| Maximum Lifting Height | 20 Feet                           |
| Reservoir Capacity     | 0.6 Gallons                       |
| Product Dimensions     | 12.7"L x 5.51"W x 6.1"H           |

| Feature                        | Specification         |
|--------------------------------|-----------------------|
| Item Weight                    | 3.3 Pounds            |
| Water Inlet I.D.               | 1.1 inches (4 inlets) |
| Water Outlet O.D.              | 2/5 inches            |
| Max Drainage Water Temperature | 158 °F (70 °C)        |
| Sound Level                    | 30 Decibels           |
| Cord Length                    | 7 Feet                |

## 7. WARRANTY AND SUPPORT

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### 7.1 Warranty Information

This MSELTOS MD-TPS-20 Condensate Pump comes with a **1-Year Seller Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact MSELTOS customer support. Refer to the contact information provided with your product packaging or visit the official MSELTOS website for support details.