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 - › MSELTOS MS-DPP-50 6.4 GPH 50 FT Max Head HVAC Condensate Pump Instruction Manual

MSELTOS MS-DPP-50

MSELTOS MS-DPP-50 6.4 GPH 50 FT Max Head HVAC
Condensate Pump Instruction Manual

Model: MS-DPP-50 | Brand: MSELTOS

1. PRODUCT OVERVIEW

The MSELTOS MS-DPP-50 Drip Pan Condensate Pump is designed to efficiently remove excess condensation from HVAC systems, dehumidifiers, and furnaces. This automatic pump helps prevent water overflow and potential damage to your property. It features quiet operation, a compact design, and an integrated safety switch for enhanced protection.



Image: The MSELTOS MS-DPP-50 condensate pump, a blue rectangular unit with indicator lights and an attached power cord.

2. KEY FEATURES

- **Efficient Condensate Removal:** Automatically activates to remove condensation, preventing overflow.
- **Quiet Operation:** Operates with noise levels below 17 dB, ensuring minimal disruption.
- **Compact Design:** Mini size allows for easy installation in various drain pans or water collection trays.
- **High Performance:** Features a maximum head of 50 feet and a maximum flow rate of 6.4 GPH (Gallons Per Hour).
- **Automatic Safety Switch:** Can be connected to the HVAC system for overflow protection, shutting down the system if water levels become too high.
- **Durable and Easy to Maintain:** Constructed with high-quality materials for longevity and includes a metal filter at the water inlet to prevent debris.



Image: Overview of the pump's key specifications including 50 FT Max. Head, 6.4 GPH Max. Flow, and 110-230V Voltage Range. It also highlights the built-in check valve.

3. PARTS INCLUDED

The following components are included with your MSELTOS MS-DPP-50 Condensate Pump:

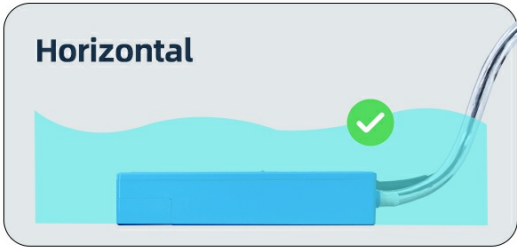
- Drain Pan Pump Unit
- Instruction Manual
- Safety Switch Fuses (2 units)

Note: Tubing is not included. This pump is designed to fit 6 mm (0.23") I.D. tubing.

Installation Precautions



Horizontal



Slight Tilt

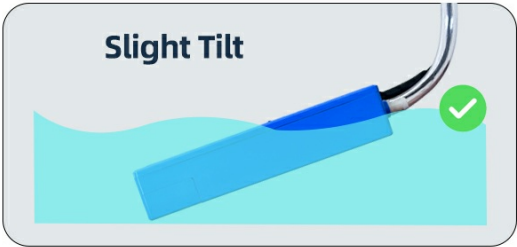


Image: Contents of the product package, showing the blue pump unit, an instruction sheet, and two safety switch fuses. A note indicates tubing is not included.

4. SPECIFICATIONS

Specification	Value
Model Number	MS-DPP-50

Specification	Value
Brand	MSELTOS
Color	Blue
Material	Plastic
Product Dimensions (L x W x H)	16.6" x 1.8" x 1.3"
Power Source	AC
Item Weight	0.9 Pounds (14.4 ounces)
Maximum Flow Rate	0.16 Gallons Per Minute (6.4 GPH)
Maximum Lifting Height (Head)	50 Feet
Voltage	110-230 Volts
Wattage	5 Watts
Sound Level	15 dB
Included Components	Drain Pan Pump, Instruction Manual, Safety Switch Fuse



Image: The physical dimensions of the pump are 16.6 inches in length, 1.8 inches in width, and 1.3 inches in height.



Image: A graph illustrating the pump's performance, showing that as the lifting height increases, the flow rate gradually decreases.

5. SETUP AND INSTALLATION

5.1 Placement

Place the pump horizontally in the drip tray. A slight tilt is also acceptable, ensuring the water level sensors are higher than the water inlet. This allows the pump to automatically detect the water level and drain condensation effectively.



Image: Diagrams showing correct installation: either perfectly horizontal or with a slight tilt, ensuring the water inlet is submerged.

Important: Do not invert the pump. Ensure the water level sensors are always higher than the water inlet. If the pump is inverted or the sensors are lower than the inlet, the pump will not automatically stop, potentially leading to continuous operation or overflow.



Image: Diagrams illustrating incorrect installation: the pump inverted or tilted such that the sensors are below the water inlet, which prevents proper operation.

5.2 Tubing Connection

Connect appropriate 6 mm (0.23") I.D. tubing to the pump's barbed water outlet. The pump has a built-in check valve

to prevent backflow.



Image: A close-up view of the pump's 6mm O.D. barbed water outlet, highlighting its compatibility with 6mm I.D. tubing and the built-in check valve.

5.3 Electrical Connections

The pump comes with a 6.6 ft power cord and safety switch wires. The power plug is ETL certified. For electrical connections, identify the Live (L), Neutral (N), and Earth (E) wires. The green wire on the plug is the earth wire.

Caution: If you are unsure about electrical connections, consult a qualified professional or your AC system company's technical personnel.



Image: A diagram showing the color-coded wires for electrical connection: Earth (green), Neutral (white), Live (blue), and two alarm wires (black and red) for the safety switch.



Image: A visual guide for plug wiring, showing the black, green, and white wires of the plug and how they correspond to the pump's blue, green, and white wires.

6. OPERATING INSTRUCTIONS

6.1 Automatic Operation

The pump operates automatically based on water levels detected by its internal sensors:

1. The pump will start pumping when the water level reaches approximately 1 cm (0.34 inches) above the lowest sensor.
2. The pump will stop pumping when the water level drops below the two lowest sensors, typically around 2 cm (0.78 inches) from the bottom.



Image: Details on the pump's automatic start and stop water levels: 2 cm (0.78") to start, 1 cm (0.34") to stop. It also indicates the 2.5 cm (0.98") level for safety switch activation.

6.2 Water Level Sensors

The pump is equipped with four water level sensors to manage operation and safety:

1. When the water level is lower than sensors 1 and 2, the pump will stop pumping.
2. When the water level reaches sensor 3, the pump will start pumping.
3. When the water level reaches sensor 4, the safety switch will activate to shut off your AC system, preventing overflow.

Each sensor is covered with a transparent protective film to prevent excessive dirt accumulation.



Image: An internal view of the pump showing the four water level sensors labeled 1, 2, 3, and 4, with descriptions of their respective functions for pump start, stop, and safety switch activation.

6.3 Indicator Lights

The pump features three indicator lights to provide operational status:

- **READY (Green):** Indicates that power is connected to the pump.
- **PUMPING (Orange):** Illuminates when the pump is actively draining water.
- **ALARM (Red):** Lights up when excessive water intake poses a risk of overflow, indicating the safety switch has been triggered or is about to be.



Image: A close-up of the pump's indicator lights (Ready, Pumping, Alarm) with text explaining what each light signifies regarding power, active pumping, and potential overflow.

7. MAINTENANCE

The MSELTOS condensate pump is designed for easy maintenance. Regular cleaning of the water inlet filter is recommended to ensure optimal performance and prevent blockages.

- The water inlet is openable, allowing for easy access to the filter screen.
- Periodically remove any accumulated dirt or debris from the filter screen to maintain efficient water flow into the pump.



Image: A view of the pump with its water inlet cover open, revealing the filter screen designed to prevent foreign objects from entering and blocking the pump.

8. TROUBLESHOOTING

If you encounter issues with your condensate pump, consider the following:

- **Pump Not Starting/Stopping Automatically:** Verify that the pump is installed correctly (horizontal or slight tilt) and that the water level sensors are positioned higher than the water inlet. Incorrect placement can prevent proper automatic operation.
- **Reduced Flow Rate or No Pumping:** Check the water inlet filter for blockages. Clean any debris that may have accumulated. Ensure the tubing is not kinked or obstructed.
- **Alarm Light On:** This indicates a high water level, suggesting a potential overflow risk. Check for blockages in the drain line, ensure the pump is functioning, or verify the safety switch connection to your HVAC system.
- **No Power:** Ensure the power cord is securely plugged in and that the power outlet is functional. Check the 'READY' indicator light.

9. WARRANTY AND SUPPORT

This MSELTOS condensate pump comes with a **1-Year Seller Warranty**.

For technical support, warranty claims, or further assistance, please contact the seller or manufacturer directly through your purchase platform or the official MSELTOS website.

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