

## Tivora EWD 330

# Tivora EWD 330 Automatic Electronic Drain Valve User Manual

Model: EWD 330 | Part Number: MKD231

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Tivora EWD 330 Automatic Electronic Drain Valve. This device is designed to automatically discharge condensate from compressed air systems, ensuring optimal performance and longevity of your equipment. Please read this manual thoroughly before installation and operation.

The Tivora EWD 330 is compatible with Atlas systems and replaces part numbers 1622855181, EWD330M, and 2901146551.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in serious injury or property damage.**

- Always disconnect power to the compressed air system before installing, servicing, or performing maintenance on the drain valve.
- Ensure the compressed air system is depressurized before working on the drain valve.
- Installation and maintenance should only be performed by qualified personnel.
- Wear appropriate personal protective equipment (PPE), including eye protection.
- Verify that the power supply (115V) matches the requirements of the drain valve.
- Do not operate the valve if it is damaged or malfunctioning.
- Dispose of condensate according to local environmental regulations.

## 3. PRODUCT OVERVIEW

The Tivora EWD 330 is an automatic electronic drain valve designed for reliable condensate removal. It features a robust construction and an integrated control unit for scheduled drainage cycles.



**Figure 3.1:** Main view of the Tivora EWD 330 Automatic Electronic Drain Valve. This image shows the overall assembly of the drain valve, including the main body, electronic control unit, and power cable with connector.

### 3.1 Components

- **Valve Body:** The main housing containing the drainage mechanism.
- **Electronic Control Unit:** Manages the drainage cycle. Features indicator lights for Alarm, Valve operation, and Power, along with a TEST button.
- **Power Cable and Connector:** For electrical connection to a 115V power source.
- **Inlet/Outlet Ports:** Connections for condensate entry and discharge.



**Figure 3.2:** Close-up view of the electronic control unit. This image highlights the indicator lights (Alarm, Valve, Power) and the 'TEST' button, along with product identification labels.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Tivora EWD 330 drain valve.

1. **Verify Compatibility:** Before installation, ensure the drain valve is compatible with your system. Check the part numbers (EWD330, 1622855181, 2901146551, EWD330M) against your existing equipment.
2. **Depressurize System:** Ensure the compressed air system is completely depressurized and isolated from power before proceeding.
3. **Mounting:** Mount the drain valve in a suitable location, typically at the lowest point of the condensate collection vessel (e.g., air receiver, filter, dryer). Ensure it is installed vertically with the drain outlet facing downwards.
4. **Connect Condensate Lines:** Connect the condensate inlet from your system to the "IN" port(s) of the drain valve. Connect a suitable drain line to the outlet port for safe disposal of condensate. Ensure all connections are tight to prevent leaks.



**Figure 4.1:** View of the inlet ("IN") and outlet ports on the Tivora EWD 330. This image shows the threaded connections for condensate input and output.

- 5. Electrical Connection:** Connect the 115V power cable to a suitable power supply. The valve is designed for plug-and-play installation. Ensure the connection is secure.



**Figure 4.2:** Close-up of the power connector. This image details the multi-pin connector for electrical power supply to the drain valve.

- 6. Test Operation:** After installation, restore power and pressure to the system. Press the "TEST" button on the control unit to manually initiate a drainage cycle and verify proper operation. Observe for any leaks.

## 5. OPERATING INSTRUCTIONS

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The Tivora EWD 330 is an automatic drain valve. Once properly installed and powered, it will operate automatically to discharge condensate.

- **Automatic Operation:** The valve is pre-set to open and close at regular intervals, effectively removing

accumulated condensate from the compressed air system.

- **Indicator Lights:**
  - **Power:** Illuminates when the unit is receiving power.
  - **Valve:** Illuminates when the valve is open and discharging condensate.
  - **Alarm:** Illuminates in case of a detected fault or malfunction. Refer to the Troubleshooting section.
- **TEST Button:** Pressing this button will manually activate a drainage cycle, allowing you to check the valve's function at any time.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable operation of your Tivora EWD 330 drain valve.

- **Daily/Weekly Inspection:** Visually inspect the valve for any signs of leaks, damage, or unusual operation. Ensure condensate is being discharged effectively.
- **Cleaning:** Periodically clean the exterior of the valve. Do not use harsh chemicals.
- **Filter Check (if applicable):** If your system includes a pre-filter for the drain valve, check and clean/replace it as per your system's maintenance schedule.
- **Annual Check:** It is recommended to perform a thorough check of the valve's internal components annually. This may require professional assistance.
- **Condensate Disposal:** Always ensure condensate is disposed of in an environmentally responsible manner, adhering to local regulations.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with the Tivora EWD 330 drain valve.

Problem	Possible Cause	Solution
Valve does not drain condensate.	<ul style="list-style-type: none"><li>• No power to the unit.</li><li>• Condensate inlet blocked.</li><li>• Valve malfunction.</li></ul>	<ul style="list-style-type: none"><li>• Check power connection and fuse.</li><li>• Inspect and clear inlet port.</li><li>• Press TEST button. If still no operation, contact support.</li></ul>
Valve drains continuously or leaks.	<ul style="list-style-type: none"><li>• Debris in valve seat.</li><li>• Valve seal damaged.</li><li>• Incorrect installation.</li></ul>	<ul style="list-style-type: none"><li>• Depressurize system, clean valve internals.</li><li>• Inspect and replace seals if necessary.</li><li>• Review installation steps.</li></ul>
Alarm light is illuminated.	<ul style="list-style-type: none"><li>• Internal fault detected.</li></ul>	<ul style="list-style-type: none"><li>• Disconnect power, wait 30 seconds, reconnect. If alarm persists, contact support.</li></ul>

## 8. SPECIFICATIONS

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Feature	Detail
Model	EWD 330
Part Number	MKD231
Voltage	115V
Operating Pressure Range	0.8 - 15 Bar (12 - 215 psig)
Operating Temperature	1 - 60 °C (34 - 140 °F)
Power Consumption	2VA
Item Weight	4.22 pounds
Package Dimensions	8.27 x 7.28 x 4.72 inches
Manufacturer	Tivora
Compatible Replacements	Atlas 1622855181, EWD330M, 2901146551

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Ensure you have your product model number (EWD 330) and part number (MKD231) available when seeking support.

Manufacturer: Tivora