**Tivora 1627793300**

# Tivora EWD330 BE Air Compressor Drain Valve (Model 1627793300) User Manual

Automatic Condensate Drain for Air Compressors

## 1. Product Overview

The Tivora EWD330 BE is an automatic electronic drain valve designed for efficient removal of condensate from air compressor systems. This device ensures optimal performance and longevity of your air compressor by preventing the accumulation of moisture.

### 1.1 Key Features

- **Automatic Condensate Drainage:** Electronically controlled to automatically discharge condensate.
- **Wide Voltage Compatibility:** Operates within a 24V-230V range, suitable for various electrical systems.
- **Durable Construction:** Manufactured with high-quality materials for stable performance and extended service life.
- **Easy Installation:** Designed for plug-and-play setup, minimizing installation time and complexity.
- **Compatibility:** Directly replaces Atlas Copco Compressor part number 1627793300 (1627-7933-00).

### 1.2 Product Identification

Refer to the image below for a general view of the Tivora EWD330 BE Air Compressor Drain Valve.


Figure 1: Front view of the Tivora EWD330 BE Air Compressor Drain Valve.

The model number and specifications are typically located on the product label, as shown in Figure 2.


Figure 2: Top view showing the product identification label with model EWD 330 BE and part number.

## 2. Safety Information

Before installing, operating, or performing maintenance on the drain valve, please read and understand all safety instructions. Failure to follow these instructions may result in property damage, serious injury, or death.

### 2.1 General Safety Guidelines

- Always disconnect power to the compressor and depressurize the system before installation or maintenance.
- Ensure the electrical supply matches the voltage requirements of the drain valve (24V-230V).

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not operate the valve if it appears damaged or is not functioning correctly.
- Installation should be performed by qualified personnel familiar with air compressor systems and electrical connections.

## 3. Installation

The Tivora EWD330 BE drain valve is designed for straightforward installation. Ensure the compressor system is de-energized and depressurized before proceeding.

### 3.1 Pre-Installation Checks

- Verify that the replacement part number (1627793300 or 1627-7933-00) matches your existing valve or compressor requirements.
- Confirm the power source voltage is within the 24V-230V AC range.
- Inspect the valve for any visible damage from shipping.

### 3.2 Installation Steps

1. **Prepare the Compressor:** Turn off the air compressor and disconnect it from its power source. Slowly open any manual drain valves to fully depressurize the system.
2. **Remove Old Valve (if applicable):** Carefully disconnect any electrical wiring and unscrew the old drain valve from the condensate collection point. Be prepared for residual condensate.
3. **Install New Valve:** Apply thread sealant (e.g., PTFE tape) to the threaded inlet of the new Tivora EWD330 BE valve. Screw the valve securely into the condensate collection port of the air compressor. Ensure a tight, leak-free connection.
4. **Connect Electrical Wiring:** Connect the electrical wires from the compressor's control system to the drain valve's terminal block. Ensure correct polarity and secure connections. The valve is designed for plug-and-play operation.
5. **Verify Connections:** Double-check all mechanical and electrical connections for security and correctness.

Figure 3 illustrates the side view of the valve, showing the inlet/outlet ports, while Figure 4 and 5 provide views of the electrical connections.

Figure 3: Side view of the drain valve, highlighting the connection points.

Figure 4: Bottom view showing the drain outlet and electrical cable entry.

Figure 5: Detailed view of the electrical connection points.

## 4. Operation

Once properly installed and connected, the Tivora EWD330 BE drain valve operates automatically to remove condensate from your air system.

### 4.1 Initial Power-Up

1. After installation, restore power to the air compressor.
2. The drain valve will typically perform an initial cycle or indicate power status via an LED (if present).
3. Allow the compressor to build pressure. The valve will then begin its automatic drainage cycles based on its internal programming.

### 4.2 Automatic Drainage Function

The EWD330 BE is an electronic drain valve that senses condensate levels or operates on a timed cycle to open and close, expelling accumulated water and oil from the compressor's receiver or filter housing. This process is fully automatic and requires no manual intervention during normal operation.

## 5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Tivora EWD330 BE drain valve.

### 5.1 Routine Maintenance

- **Daily/Weekly:** Visually inspect the valve for any leaks or unusual noises. Ensure condensate is being discharged effectively.
- **Monthly/Quarterly:** With the compressor de-energized and depressurized, inspect the drain port for blockages. Clean if necessary. Check electrical connections for tightness and corrosion.
- **Annual:** Consider a more thorough inspection of internal components if accessible, or consult a qualified technician.

### 5.2 Cleaning

To clean the exterior of the valve, use a damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no moisture enters the electrical components.

## 6. Troubleshooting

This section provides solutions to common issues you might encounter with your drain valve.

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| Valve not draining condensate | No power to the valve<br>Drain port blocked<br>Valve malfunction | Check electrical connections and power supply.<br>Depressurize system and clear any blockages from the drain port.<br>Contact support for further assistance. |
| Continuous air leakage from valve | Valve not closing properly<br>Debris in valve seat | Depressurize system and inspect valve for debris. Clean if necessary.<br>If issue persists, valve may need replacement. |
| Valve not activating | Incorrect wiring<br>Insufficient condensate accumulation (for sensor-based models) | Verify wiring against installation instructions.<br>Monitor condensate levels; if no condensate, valve will not activate. |

## 7. Specifications

Technical specifications for the Tivora EWD330 BE Air Compressor Drain Valve.

| Specification | Value |
|---|---|
| Manufacturer | Tivora |
| Item Model Number | 1627793300, 1627-7933-00 |
| Compatible With | Atlas Copco Compressor 1627793300 |
| Power Source | AC (24V-230V) |
| Included Components | Air Compressor Drain Valve |
| Item Weight | 4.2 pounds |
| Package Dimensions | 8.39 x 7.28 x 4.8 inches |
| Color | Gray |

## 8. Warranty and Support

For product support, technical assistance, or warranty inquiries, please contact Tivora customer service. Keep your purchase receipt and model number handy for faster service.
For the most up-to-date information, please visit the official Tivora website or contact your authorized dealer.
*Note: Specific warranty terms and conditions may vary. Please refer to the documentation provided at the time of purchase or contact the manufacturer directly.*