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Caleffi 11727

Caleffi Robocal Automatic Air Vent 3/8" DN10 Instruction Manual

Model: 11727 | Brand: Caleffi

1. Introduction

The Caleffi Robocal Automatic Air Vent is designed to efficiently remove air residues from heating and air conditioning systems without requiring manual intervention. Eliminating trapped air prevents undesirable effects such as noise, wear on hydraulic components, and suboptimal radiator performance. This manual provides essential information for the proper installation, operation, and maintenance of your automatic air vent.

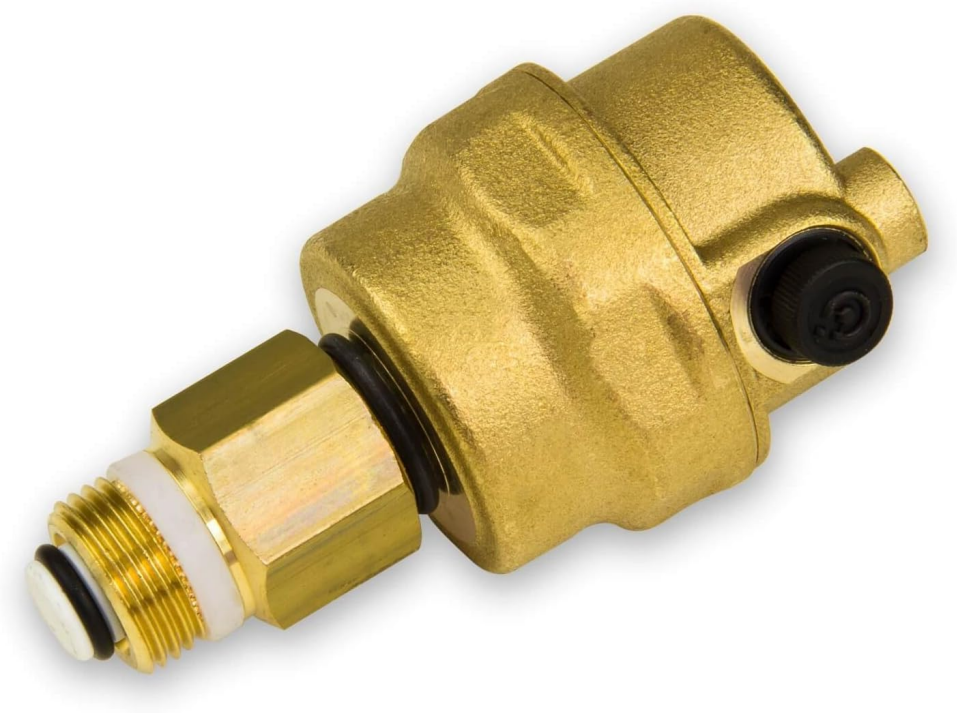


Figure 1: Caleffi Robocal Automatic Air Vent, main view.

2. Product Overview and Features

The Caleffi Robocal Automatic Air Vent (Model 11727) is a robust component crafted for durability and reliable performance in various HVAC applications. Key features include:

- **Automatic Air Purging:** Continuously removes air from the system.

- **Durable Construction:** Housing and cover made of brass for longevity.
- **Reliable Sealing:** Features a silicone rubber seat seal.
- **High Performance:** Operates effectively up to 110 °C (230 °F) and 10 bar (145 psi) operating pressure.
- **Anti-Rotation and Anti-Vibration System:** Integrated float system ensures stable and consistent operation.
- **Connection:** 3/8" AG (male thread) with an approximate diameter of 16.5 mm.



Figure 2: Disassembled view of the air vent, highlighting the 3/8" threaded connection.

3. Installation

Proper installation is crucial for the optimal performance of the automatic air vent. Follow these guidelines:

1. **Mounting Position:** The air vent is designed for **vertical mounting**. Ensure the float mechanism can move freely.
2. **Connection:** Connect the 3/8" AG male thread to a corresponding female thread in your heating or cooling system. The external thread has a diameter of 16.67 mm.
3. **Air Venting:** For automatic air venting, turn the black cap on the outlet completely counter-clockwise from its closed position. This opens the vent, allowing air to escape automatically.
4. **Location:** Install the air vent at the highest points of the system where air tends to accumulate.
5. **Avoid Inaccessible/Frost-Prone Areas:** Do not install the air vent in locations that are difficult to access or where there is a risk of freezing.

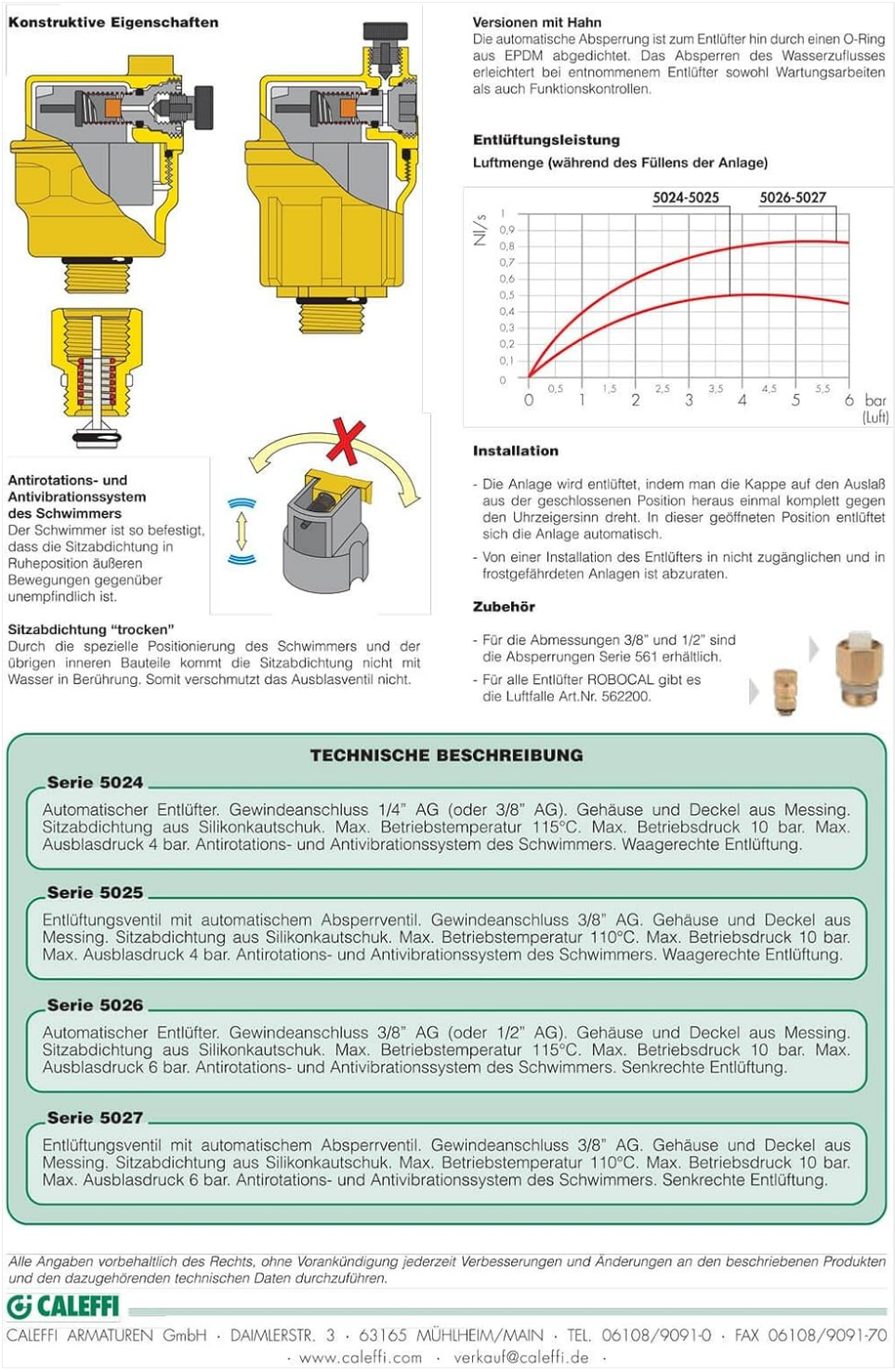


Figure 3: Technical diagram illustrating internal construction and installation guidance. Note the vertical mounting requirement and the cap for air release.

4. Operating Instructions

The Caleffi Robocal Automatic Air Vent operates automatically once correctly installed and activated.

- **Automatic Function:** With the black cap fully open (turned counter-clockwise), the internal float mechanism will automatically open and close the vent to release trapped air from the system.
- **Manual Closure:** If necessary, the air vent can be manually closed by turning the black cap clockwise until it is fully tightened. This might be required during system maintenance or if the vent needs to be temporarily isolated.
- **Initial System Fill:** During the initial filling of the heating or cooling system, ensure the air vent cap is open to allow for efficient air purging.

5. Maintenance

The Caleffi Robocal Automatic Air Vent is designed for maintenance-free operation. However, regular checks of the overall system are recommended to ensure optimal performance:

- **Visual Inspection:** Periodically inspect the air vent for any signs of leakage or damage.
- **Functionality Check:** Ensure the black cap is in the open position for automatic air release. If air is persistently present in the system, verify the vent is not blocked or obstructed.
- **Cleaning:** Do not attempt to disassemble the unit for cleaning. External cleaning with a damp cloth is sufficient if needed.

6. Troubleshooting

If you encounter issues with your automatic air vent, consider the following:

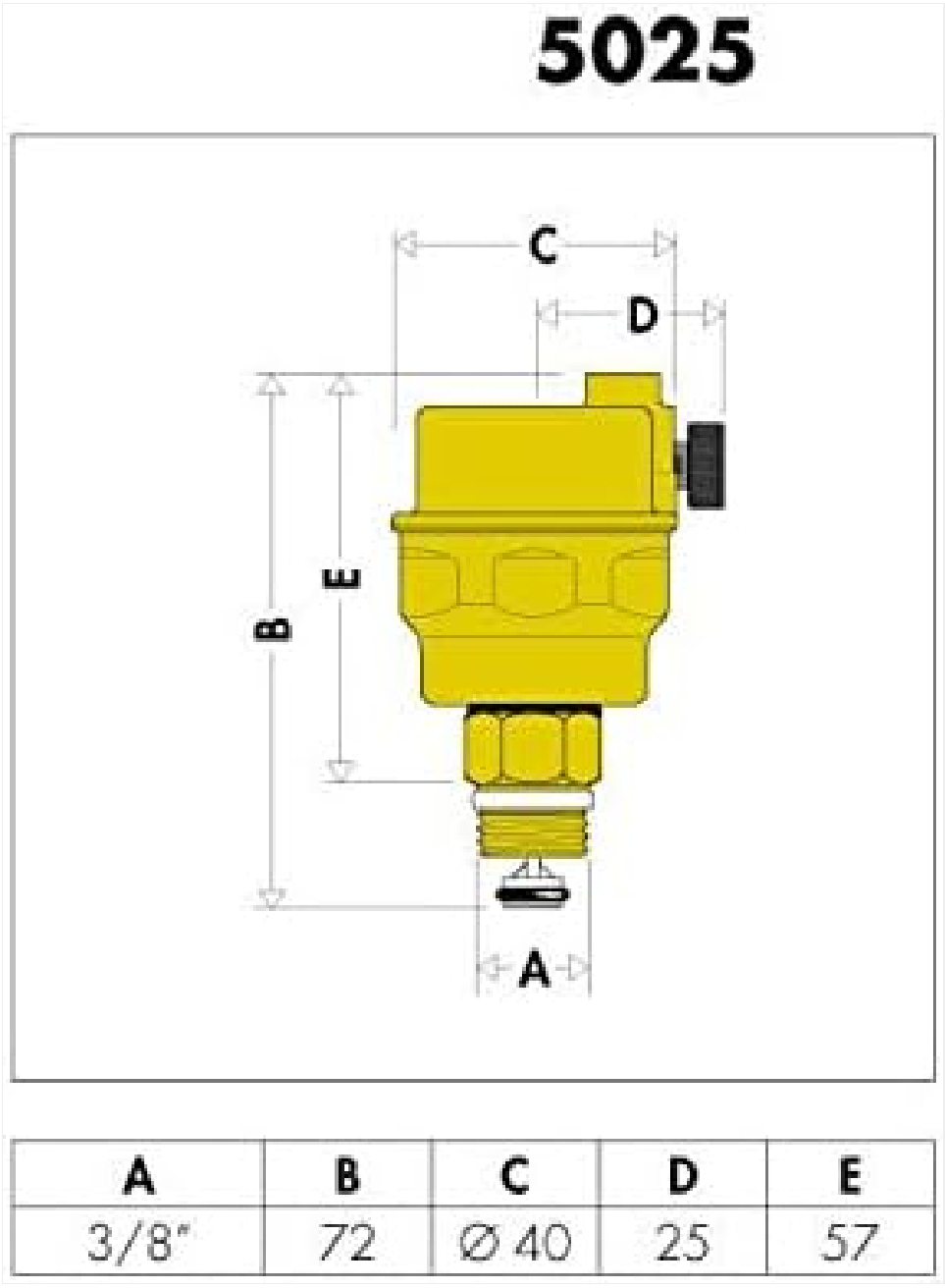
- **Persistent Air in System:**
  - Ensure the black cap on the air vent is fully open (turned counter-clockwise).
  - Verify that the air vent is installed at the highest point of the system where air collects.
  - Check for any blockages around the vent opening.
  - Confirm system pressure is within the operating range (max 10 bar).
- **Water Leakage from Vent:**
  - Ensure the connection thread is properly sealed.
  - If leakage persists from the vent opening, the internal mechanism might be faulty. In this case, the unit may need replacement.
- **No Air Release:**
  - Confirm the cap is open.
  - Check if the system is actually pressurized and contains air.

For issues not resolved by these steps, contact a qualified technician or the product supplier.

7. Specifications

Specification	Value
Model Number	11727
Material	Brass (Housing and Cover)
Seal Material	Silicone Rubber
Connection Size	3/8" AG (Male Thread)
External Thread Diameter	Approx. 16.5 mm (0.65 inches)
Max. Operating Temperature	110 °C (230 °F)
Max. Operating Pressure	10 bar (145 psi)
Max. Blow-off Pressure	4 bar (58 psi)
Mounting Orientation	Vertical

Specification	Value
Dimensions (Model 5025)	A: 3/8", B: 72mm, C: Ø40mm, D: 25mm, E: 57mm



A	B	C	D	E
3/8"	72	Ø 40	25	57

Figure 4: Dimensional drawing for Caleffi Robocal Model 5025 (3/8" DN10).

8. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. Keep your purchase receipt as proof of purchase.

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