Capricorn K13500

Instruction Manual

Capricorn HypAir Balance Pipe Vent for Sanitary Systems DN 32-63

Model: K13500

Product Overview

The Capricorn HypAir Balance Pipe Vent is a ventilation valve designed for sanitary drainage systems. It effectively prevents pressure build-up within the sewage installation, ensuring smooth wastewater flow and preventing common issues such as dry siphons and unpleasant odors.

This maintenance-free valve is suitable for various applications, including passive and energy-efficient homes. Its design eliminates the risk of roof transpiration (e.g., on flat roofs or near skylights) and prevents cold bridging, which can lead to condensation on pipes. The HypAir Balance system ensures 100% airtight operation and is approved according to EN 12380 standards. It is resistant to temperatures ranging from 0°C to 60°C.



Figure 1: The HypAir Balance Pipe Vent, featuring a white top and a black flexible base.

Key Features

- Prevents pressure build-up in sewage installations.
- Ensures siphons remain filled, preventing drying out.
- Eliminates unpleasant odors and gases from drainage systems.
- Reduces or eliminates dripping issues in pipes.
- Maintenance-free operation.
- Suitable for passive and energy-efficient buildings.

- Prevents roof transpiration and cold bridging.
- 100% airtight design.
- Approved according to EN 12380 standard.
- Temperature resistant from 0°C to 60°C.

Setup and Installation

Proper installation of the HypAir Balance pipe vent is crucial for optimal performance. The valve is designed to be installed in sanitary drainage systems to allow air intake when negative pressure occurs, preventing siphon emptying and odor release.

Installation Guidelines:

1. **Determine Pipe Diameter:** Identify the diameter of the pipe where the vent will be installed. The HypAir Balance vent is compatible with various pipe sizes (DN 32-63 and 70-110 mm).
2. **Select Correct Adapter:** Use the appropriate adapter for your pipe diameter. The valve's flexible base can be adjusted or trimmed to fit. Refer to the installation diagrams for specific guidance on how to connect the vent to different pipe sizes.
3. **Positioning:** Install the vent in a vertical position, ensuring it is easily accessible for inspection if needed, although it is maintenance-free. It should be placed at a point where air can be drawn into the system to equalize pressure.
4. **Secure Connection:** Ensure a secure and airtight connection between the vent and the pipe to prevent leaks and maintain system integrity.



Figure 2: Detailed installation diagrams for various pipe diameters (32mm, 40mm, 50mm, 63mm, 70mm, 75mm, 90mm, 100mm, 110mm).

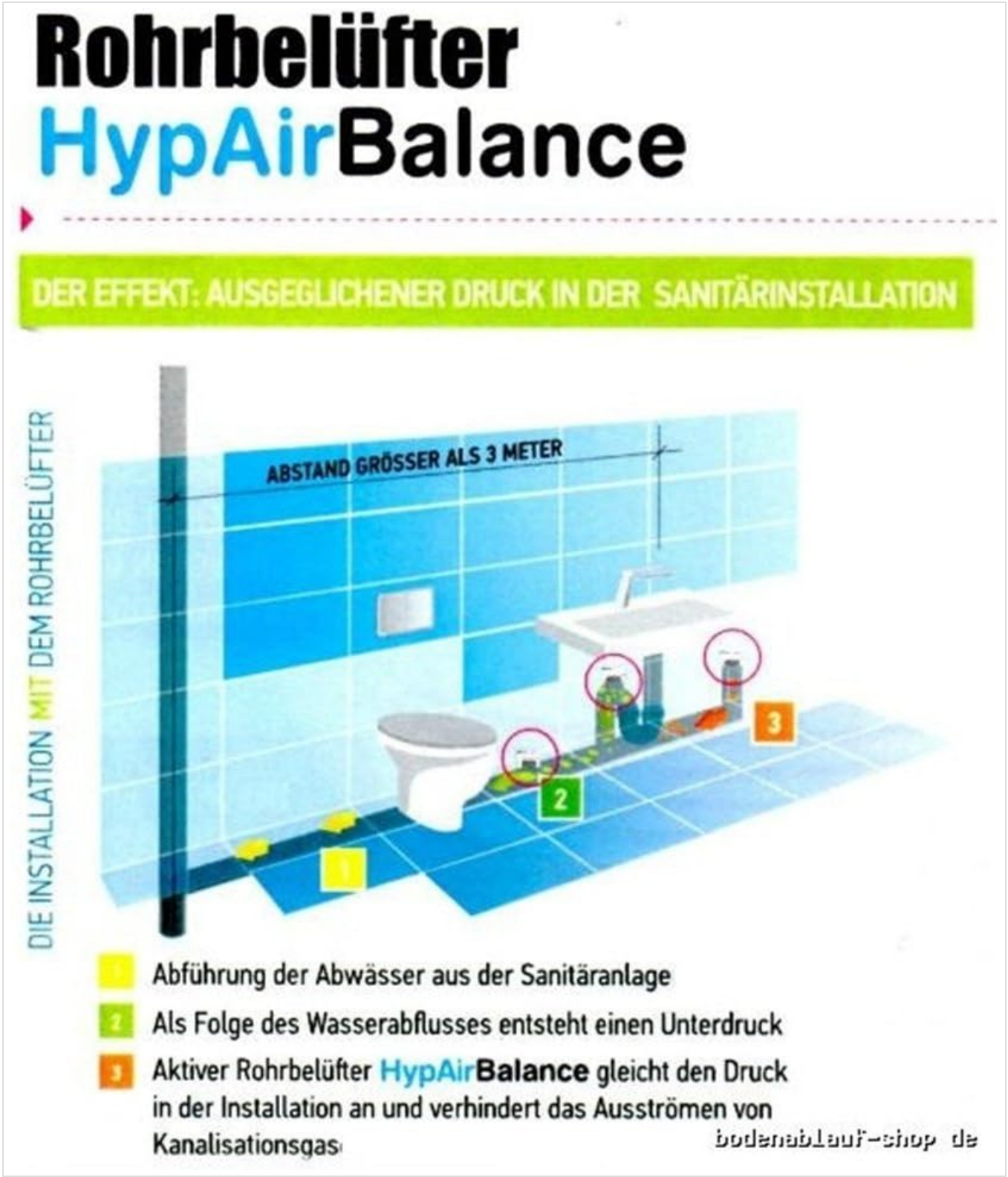


Figure 3: Illustrative diagram of the pipe vent's placement within a typical sanitary drainage system, highlighting its role in pressure equalization.

Operating Principle

The HypAir Balance pipe vent operates based on pressure differentials within the sanitary system. When wastewater flows down the pipes, it can create negative pressure (a vacuum) that might pull water from siphons, leading to the release of sewer gases.

The valve contains a membrane or seal that opens automatically when negative pressure is detected, allowing fresh air to enter the drainage system. This air intake equalizes the pressure, preventing the siphons from being emptied. Once the pressure is balanced, the valve automatically closes, creating an airtight seal that prevents unpleasant odors and gases

from escaping into the living space.



Figure 4: Visual representation of air (blue arrows) entering the pipe vent to equalize pressure within the system.



Figure 5: Cross-sectional view demonstrating the internal valve mechanism: it opens to allow air in during negative pressure and closes to seal the system when pressure is balanced or positive.

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Video 1: An overview of the HypAir Balance Pipe Vent, demonstrating its features and benefits for sanitary systems.

Maintenance

The Capricorn HypAir Balance Pipe Vent is designed to be *maintenance-free*. Its robust construction and self-regulating mechanism ensure long-term reliable operation without the need for regular cleaning or servicing.

However, it is recommended to periodically inspect the visible parts of the valve for any physical damage or obstructions that might impair its function. Ensure that the area around the vent is clear and not blocked by debris or other objects.

Troubleshooting

While the HypAir Balance pipe vent is highly reliable, certain issues might arise in a sanitary system that could be mistakenly attributed to the vent. Here are some common scenarios and potential solutions:

Problem	Possible Cause	Solution
Persistent odors from drains	◦ Siphon dry-out (if vent is not functioning) ◦ Blockage in drainage pipes ◦ Improper installation of vent	◦ Check if the vent is installed correctly and not obstructed. ◦ Ensure siphons are filled with water. ◦ Inspect drainage pipes for blockages and clear them if necessary.
Gurgling sounds from drains	◦ Insufficient air intake (vent obstructed or faulty) ◦ Partial blockage in pipes	◦ Verify the vent is not blocked and can freely draw air. ◦ Check for and clear any partial blockages in the drainage system.
Water dripping from vent	◦ Incorrect installation (e.g., not vertical) ◦ Damage to the internal membrane/seal	◦ Ensure the vent is installed perfectly vertically. ◦ If damage is suspected, the unit may need replacement.

If problems persist after attempting these solutions, it is advisable to consult a qualified plumber or contact Capricorn customer support.

Specifications

Attribute	Detail
Brand	Capricorn
Model Number	K13500
Product Dimensions (LxWxH)	7.9 x 7 x 7 cm
Weight	120 grams
Color	White
Material	Metal, Plastic
Input Connection Size	DN 32-63 (adjustable)
Temperature Resistance	0°C to 60°C
Certification	EN 12380
Number of Ports	1

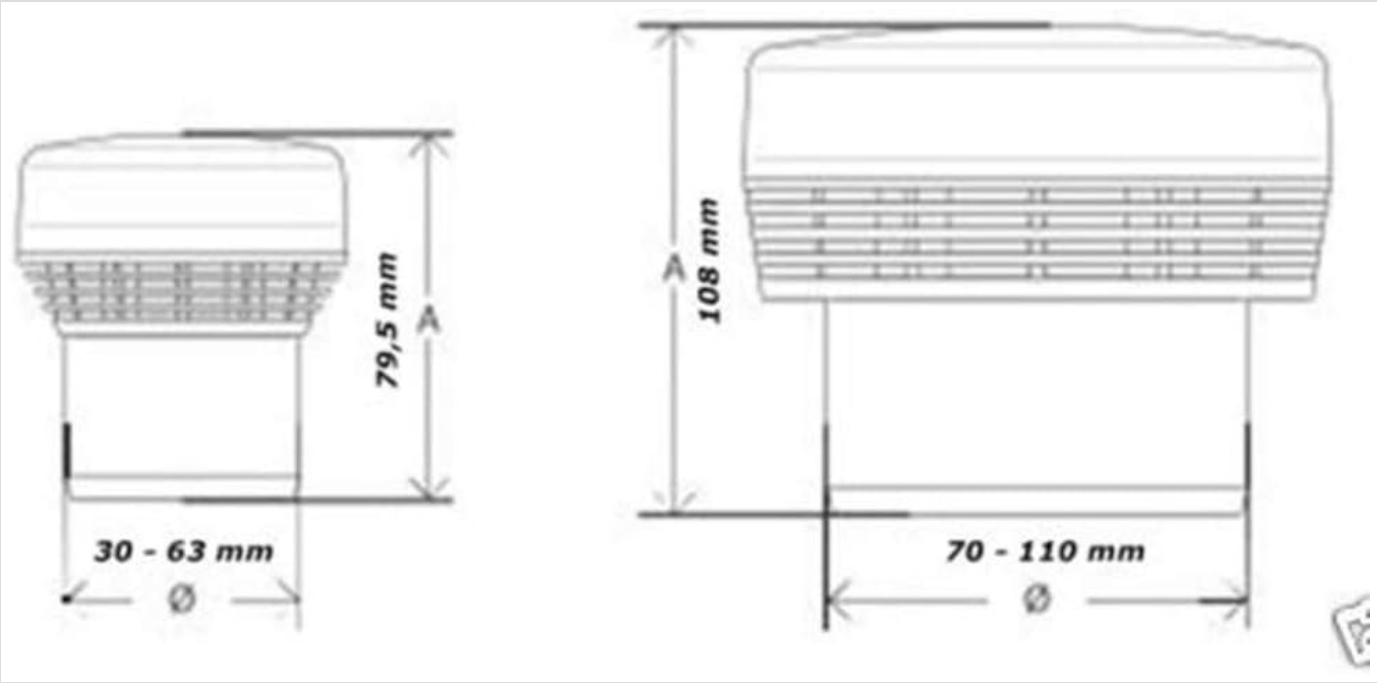


Figure 6: Dimensional drawing indicating the height and compatible pipe diameters for different versions of the vent.

Warranty and Support

For warranty information, technical support, or any inquiries regarding your Capricorn HypAir Balance Pipe Vent, please refer to the official Capricorn website or contact their customer service directly.

Capricorn Official Website: www.capricorn.pl

Please have your product model number (K13500) and purchase details ready when contacting support.

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