

Article Overview

The FLX-PRV distribution box is a plenum box designed for air supply and exhaust in residential ventilation systems, compatible with semi-rigid oval HDPE ducts.

Overview

The FLX-PRV distribution box (also called a plenum or manifold) is used in mechanical ventilation systems with heat recovery, typically in single-family homes. It serves as a central hub to distribute air from the main duct to multiple branch ducts, ensuring efficient air supply and exhaust throughout the building .

Design and Construction

- o **Material:** Made from galvanized steel with HDPE connectors; some models include internal insulation with 9 mm rubber foam for airtightness and noise reduction .
- o **Duct Compatibility:** Designed to connect with FLX-HDPE-132-52 semi-rigid oval ducts. Connection spigots are typically male, with female options available on request .
- o **Branch Ports:** Depending on the model, the box can have 2 to 8 spigots, allowing distribution to multiple rooms or diffusers .
- o **Installation:** Can be concealed in cast-in-place floors or insulation layers, making it suitable for heat-recovery ventilation systems in residential buildings .

Technical Specifications

- o **Spigot Diameter:** Commonly 160 mm or 200 mm, with configurations indicated in the product code (e.g., FLX-PRV-R-2-2-2-2-160) for number and arrangement of spigots .
- o **Dimensions:** Typical dimensions include 300 mm x 300 mm for the main body, with depth and height varying by model .
- o **Airflow Function:** Supports both supply and exhaust air, ensuring balanced ventilation and compatibility with heat-recovery units .

Applications

- o **Residential Ventilation:** Ideal for single-family homes with mechanical ventilation and heat recovery systems.
- o **Air Distribution:** Provides multiple branch connections to supply air to individual rooms or extract air from wet areas.
- o **Concealed Installation:** Can be embedded in floors or insulation voids to maintain aesthetics and protect ductwork from contamination .

Ordering and Customization

- o Product codes specify the number of spigots, spigot diameter, and connection type.
- o Female spigot connections are available by adding "F" to the product code.
- o Custom options include stainless steel construction for enhanced durability or applications involving special requirements . The FLX-PRV distribution box is a versatile and essential component for modern residential ventilation systems, providing efficient air distribution, airtight connections, and compatibility with heat-recovery units.

A Pressure Relief Valve (PRV) is a safety device installed on the transformer tank to protect

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FLX-PRV-R distribution box (manifold) is designed for installation in concrete screed or insulation layer, the distribution box has oval

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The FLX-PRV plenum box is installed into concrete screed for oval ventilation ducts. FLX-PRV box is fitted

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Distribution box PRV

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