Horizontal Long Distribution Box



Overview

For seamless consolidation, distribution, and management of power supply. Find distribution boxes that are designed to perform and last longer.

Key Takeaways

A long horizontal distribution box is a modular enclosure designed to house multiple electrical or ventilation connections in a horizontal layout, offering flexibility, safety, and easy access.

Overview

A long horizontal distribution box is typically used to distribute electrical power or air flow across multiple circuits or ducts while maintaining a compact, elongated form factor. These boxes are ideal for applications where space is limited or where a horizontal layout is preferred for aesthetic or functional reasons.

Key Features

Modular Design: Many horizontal distribution boxes, such as Panasonic modular boxes, offer 16- or 32-module options with horizontal and vertical expandability, allowing multiple boxes to be combined into a seamless system. Material Options: Boxes are commonly made from flame-retardant ABS plastic for lightweight durability or stainless steel (grades 201, 304, 316) for corrosion resistance in harsh environments. Mounting Flexibility: Suitable for flush or surface mounting, making them adaptable to different interior or industrial setups.

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Protection and Safety: Many boxes feature IP40 or higher ratings, providing protection against dust and minor water ingress, and are made from flame-retardant materials to reduce fire risk. Accessibility: Features like 180° openable covers, quick-access panels, and modular components ensure easy inspection, maintenance, and repairs.

Applications

Electrical Distribution: Used in residential, commercial, and industrial settings to consolidate and manage power supply, protecting circuits from overloads and short circuits. Ventilation Systems: Specialized horizontal plenum boxes, such as the FLX-PRO-R-P, are used in mechanical ventilation systems to distribute air efficiently while minimizing installation space. Customizable Layouts: Modular boxes allow for personalized configurations, accommodating different numbers of circuits or ducts depending on project requirements.

Selection Tips

Determine the number of modules or circuits needed to ensure the box can accommodate all connections. Choose the appropriate material based on environment: ABS for indoor use, stainless steel for outdoor or corrosive conditions.

Check I

P rating to ensure adequate protection against dust and moisture. Consider mounting options and available space to select a flush or surface-mounted design. Look for modular expandability if future upgrades or additional circuits are anticipated.

Long horizontal distribution boxes combine functionality, safety, and flexibility, making them a reliable choice for both electrical and ventilation systems while maintaining a clean, organized installation.

Article Content

Distribution Box : Final Distribution

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The FLX-PLO-R-P/ FLX-PRO-R-P distribution boxes (manifolds) are used to run the domestic ventilation ductwork to each individual room. The air distribution box is equipped with a perforated panel, which

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Distribution boxes – For modular and decentralised solutions

Modern automation solutions are becoming increasingly decentralised. As a result, you need distribution systems that can be easily integrated into the common automation systems and are more efficient to

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A distribution box ensures that electrical supply is distributed in the building, also known as a distribution board, panel board, breaker panel, or electric panel.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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