Dimensions and Specifications of a 30HP Cold Storage Power Distribution Box



Overview

Double screen operation ECB-5080S Cold storage electric control box. The compact design (dimensions: 220mm x 180mm x 95mm, net weight: 1.2kg/unit) allows.

Key Takeaways

A 30HP cold storage power distribution box typically features a robust, industrial-grade enclosure with dimensions and layout designed to house MCCBs, bus bars, and cable glands, but exact measurements vary by manufacturer.

Typical Construction and Materials

Enclosure Material: Industrial-grade ABS+PC flame-retardant plastic or 2 mm galvanized steel for outdoor/indoor use. Protection Rating: IP-55 or higher, ensuring resistance to dust, moisture, and extreme temperatures. Suitable for cold storage environments ranging from -30°C to +70°C.

Door and Locking: Slanting roof with overhang, concealed hinges, and Godrej-type 3-position locking system for security. Internal Layout: Provision for one bus bar arrangement with 4-pole MCCB for main supply and outgoing feeders with 2- or 3-pole MCCBs. Insulated barriers separate MCCBs to prevent heat transfer and short circuits.

Cable Entry: Heavy-duty, double-compression cable glands for incoming and outgoing cables, with detachable plates for easy installation. Earthing: Two solid earthing points on either side of the box for safety.

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Typical Dimensions and Tolerances

While exact dimensions vary by manufacturer, illustrative dimensions for a 30HP LT distribution box are often in the range of: Height: 1200–1500 mmWidth: 800–1000 mmDepth: 400–600 mmTolerance: ±10% depending on design and manufacturer.

Additional Features

Monitoring and Control: Some models include dual-display panels for temperature and system status monitoring, overload protection, phase loss detection, and compressor delay start functions. Customization: OEM/ODM options for front panel labels, housing color, and branding are available. Compatibility: Designed to integrate with major compressor brands (Copeland, Bitzer, Danfoss) and refrigerants like R404A and R134a.

Recommendation

For precise installation planning, it is recommended to obtain the manufacturer's datasheet or technical drawing for the specific 30HP model, as dimensions and internal layout can vary significantly between suppliers. This ensures proper fit, compliance with electrical codes, and safe operation in cold storage environments.

Article Content

Double screen operation ECB-5080S Cold storage electric control box ...

The compact design (dimensions: 220mm x 180mm x 95mm, net weight: 1.2kg/unit) allows for space-saving wall mounting inside cold rooms while maintaining excellent heat dissipation and electrical

Cold Storage Electric Control Box Condensing Unit Electric Control

Cold Storage Electric Control Box Condensing Unit Electric Control Box 5hp 10hp 15hp 20hp 25hp 30hp 40hp 220v 380v

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RB301M | Eaton RhinoBox power distribution unit | Specifications | Eaton

Specifications and datasheets Eaton Specification Sheet - RB301M Temporary power centers with GFCI protection spec sheet

Distribution Box Specifications And Models

The above are only some common distribution box specifications and features. When making actual selections, it is necessary to comprehensively

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TECHNICAL SPECIFICATION I.R.O. 63,100,160 & 315 KVA

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1. SCOPE: This Specification covers the design, manufacture, testing at works and supply of Distribution Boxes made out of CRCA MS for controlling the L.T. feeders from the L.T. side of Distribution

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