

How to start the fan in the distribution box



AI Overview

To start a fan distribution box safely, ensure proper installation, wiring, and protective checks before powering on the system.

Preparation and Safety Checks

Turn Off Power: Before any work, switch off the main circuit breaker to de-energize the system and prevent electric shock.

Verify De-energization: Use a voltage tester or multimeter to confirm that no current is present in the distribution box.

Inspect the Box: Ensure the distribution box is properly installed, securely mounted, and rated for the fan load (industrial fans may require 100A-rated boxes).

Wiring and Connections

Check Wiring Layout: Identify input (line) and output (fan circuits) terminals. Follow color coding: black for hot, white for neutral, and green or bare for ground.

Connect Circuit Breakers: Install individual breakers for each fan or circuit. Ensure the breaker rating matches the fan's current requirements.

Secure Connections: Strip wire ends to the correct length, insert into terminals, and tighten screws firmly. Avoid loose connections to prevent overheating or arcing.

Grounding: Confirm that the grounding wire is properly connected to the box and fan circuits for safety.

Initial Power-On Procedure

Visual Inspection: Check that all wires are neatly arranged, no insulation is damaged, and all protective devices (breakers, fuses) are in place.

Reconnect Main Power: Turn on the main breaker carefully. Observe for any unusual sounds, sparks, or smells.

Activate Fan Circuits: Switch on the individual breakers controlling the fans. Verify that each fan starts smoothly and operates without abnormal vibration or noise.

Test Protection Devices: Confirm that overload and short-circuit protection functions are operational by checking the breaker response under controlled conditions.

Maintenance and Monitoring

Label Circuits: Clearly mark each fan circuit for easy identification during maintenance.

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When the space temperature decreases beyond the control of the primary air valve, the fan is started along with the first stage of heat. The fan delivers warm plenum air from the controlled space to the

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EC BOX FAN Safety, Installation, Operation and Maintenance

Only approved, qualified personnel familiar with the assessment of hazards and risks associated with fans, and with the use of tools and test equipment required to service such fans, should install,

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FB-IOM_V7 dd

For sequences that call for the fan to start as the first stage of heat, the cooling minimum cfm can be verified at the di user. Setting the minimum control point will typically require careful adjustment of

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