



RP-Max-Z Room Pressurization System

Z-Purge Class I, Division 2 Gp C&D Ex pz Zone 2 IIB T3 Cat. 3 G ATEX



OPERATION

The Expo Technologies RP-Max-Z range of room pressurizing units are designed for Type Z (Ex pz) pressurization of rooms in accordance with NFPA 496 2008 and ATEX IEC/EN 60079-13 Draft. At the heart of each system is Expo's control logic which provides for pressure monitoring and air inlet fan control.

The RP-Max-Z room pressurization systems are designed to be used in Class I Div 2 or Zone 2 locations making the interior of the room a general purpose location. The RP-Max-Z can adequately pressurize and ventilate rooms with 1 door (1800 cfm) or 2 doors (3000 cfm). For additional ventilation capacities consult the factory.

CORE FUNCTIONS

- Room pressure monitoring and display
- Fan speed control to reach minimum pressure for compensation of leakages
- Fan control to provide high rate ventilation [up to 60 fpm (0.3 m/sec) velocity across open doors] for door open conditions
- Alarm contacts for low pressure and fan failure indication

ADDITIONAL FUNCTIONS

- External input to shut down fan
- External input to force system into high flow

Features

- + Designed to NFPA496 and ATEX EN 60079-13 (Draft) Room Standards
- + Compact Design for Harsh Environments
- + -20°C (-4°F) to +40°C (+104°F) on request +60°C (140°F)
- + Easy Access User Controls
- + Fresh Air Inlet Connection
- + Replaceable Inlet Air Filter
- + Ventilation Capacities of 1800 to 3000 cfm (3000 to 5000m³/hr)

ELECTRICAL

- Electrical configuration includes required circuit protection for motors and control circuitry
- Configured for single phase 230V 50/60Hz. Other supplies upon request

MECHANICAL

- Preferred mounting arrangements:
 - Through Wall Mounting
 - In Room Wall Mounting
 - Custom design can be engineered to meet specific room requirements

- Simple filter and additional filtration devices
- Sand trap box can be specified for high dust environments such as desert locations
- Inlet stacks can be provided to suit
- Optional Stainless Steel or Corrosion Resistant Materials
- Additional Options Available Consult the Factory

Technical Specification Room Pressurization System RP - -

