

Bebco EPS® 6100 Series Purge and Pressurization System

Large-Enclosure Purge and
Pressurization System for Zones 1 and 2



Your automation, our passion.

 **PEPPERL+FUCHS**

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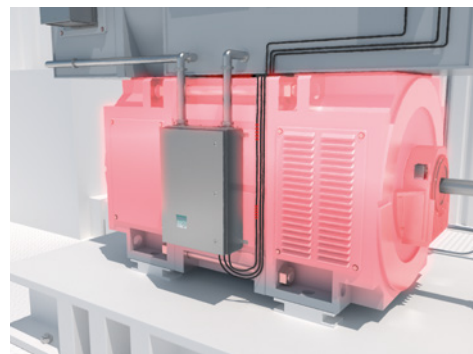
Low-cost protection for large enclosures and electronics in hazardous areas.

The 6100 series purge and pressurization system consists of a control unit, an enclosure protection vent, a low-pressure sensor, and optional temperature sensors. Specially designed for use with large motors, drives, compressors, and enclosures in hazardous locations, the 6100 can purge enclosures larger than 13 m³ (460 ft³).



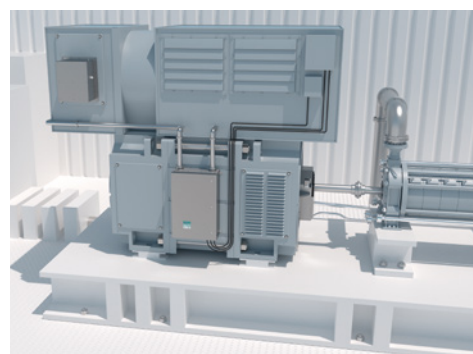
Quick and Easy Configuration

The configurable control unit comes with an intrinsically safe user interface. The unit can be mounted in a separate enclosure near operating personnel for quick access and easy monitoring. When configuring the unit, the user interface can be used to access the easy-to-use menu for commissioning.



Pressure and Temperature Monitoring/Control

The configurable control unit also features temperature monitoring, pressure monitoring and compensation, and up to three temperature sensor inputs that can monitor various temperature points within a motor housing. The intrinsically safe low-pressure sensor provides an accurate enclosure pressure reading for safe operation in hazardous locations. The pressure sensor, which can measure internal pressure from 0 to 25 mbar, can be installed at the motor's low-pressure section for safe and accurate readings.



Added Flexibility with Configurable Inputs and Outputs

Suited for applications in the chemical, petrochemical, and oil and gas industries, the system comes with a configurable auxiliary output that can be used for control and alarm notifications. Two selectable intrinsically safe inputs are available to support power control, bypass, an energizing control valve, or a door-open alarm.

Automatic system

- Modern, electronic microprocessor-based control system instead of pneumatic logic
- Menu-driven programming for manual or automatic system

Protection

- IP66

Universal

- AC 100 ... 250 V AC
- DC 20 ... 30 V DC

Materials

- 1.4404/316L stainless steel

Dimensions

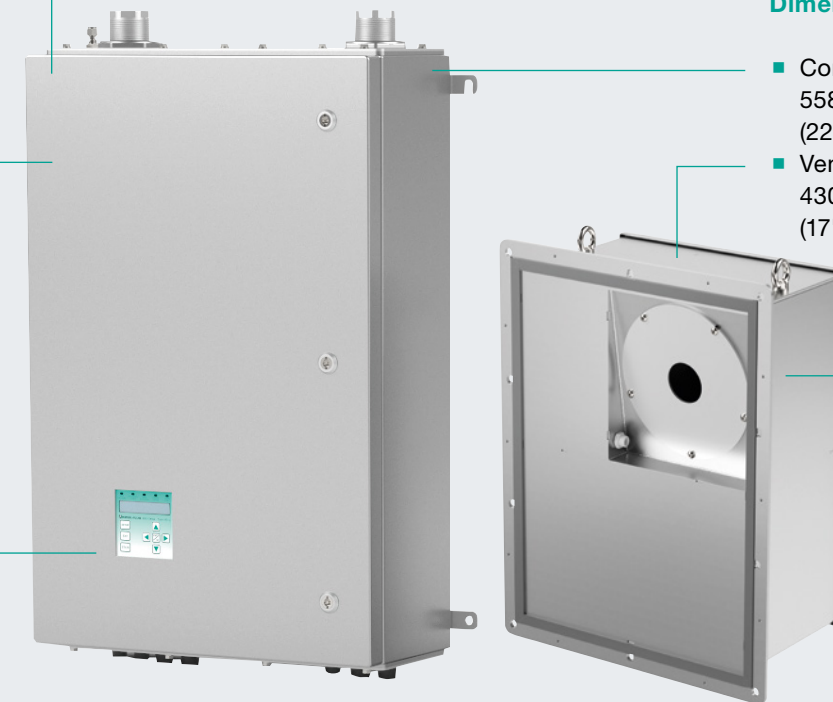
- Control unit
558 mm x 762 mm x 213 mm
(22" x 30" x 8.4")
- Vent
430 mm x 350 mm x 225 mm
(17" x 13.8" x 8.9")

Control

- Multiple optional temperature inputs for monitoring
- Automatic pressure compensation for excess leakage from motor
- Auxiliary contact outputs for alarm or control

Interface

- User display indicates status of system and historical alarm data
- LED indication of safe pressure, power, bypass, and faults
- Password-protected, user-configured operations like bypass for maintenance



Control Unit

Enclosure Protection Vent

Maximum flow

- 14,000 l/min



ATEX and IECEx certification appropriate for installation in Zone 1 and Zone 2



Global leader in purging technology—support in 70+ countries



Easier to install: only requires intrinsically safe wiring



Password-protected, user-configured operations



The remote pressure sensor can be installed in a low-pressure area to ensure the enclosure pressure is above the minimum



Access to historical information, temperature, time in use, current and last alarm (if any), purging time left, and enclosure pressure

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality
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