

Bebco EPS® 6100 Series Purge and Pressurization System

Large-Enclosure Purge and
Pressurization System for
Zone 1



Your automation, our passion.

Bebco EPS® 6100 Series Purge and Pressurization System

Cost-effective 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 areas, the 6100 can purge enclosures larger than 13 m³ (460 ft³).



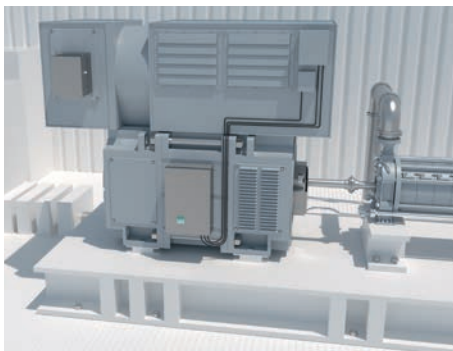
Simple Configuration Process

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 user-friendly 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.

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Automatic system

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

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

Degree of protection

- IP66

Dimensions

- 558 x 762 x 213 mm (22" x 30" x 8.4")



Control Unit

Universal

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

Materials

- 1.4404/316L stainless steel



6100 Series pressure sensor

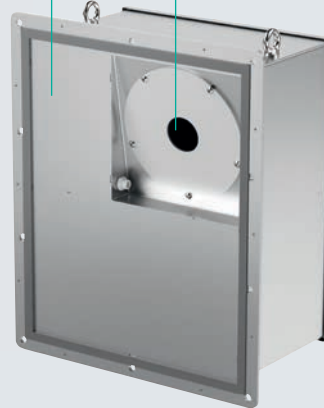
- Universal mounting in any orientation
- Measures internal pressures from 0 to 25 mbar
- 1 1/2 inch NPT process connection
- Intrinsically safe when connected to 6100 control unit

Dimensions

- 430 x 350 x 225 mm (17" x 13.8" x 8.9")

Maximum flow

- 14,000 l/min



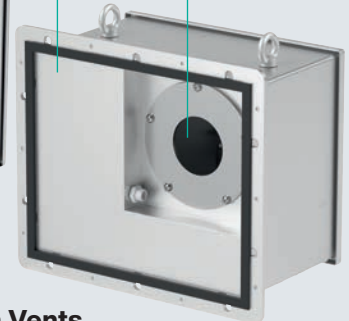
Enclosure Protection Vents

Dimensions

- 330 x 280 x 186.8 mm (13" x 11" x 7.3")

Maximum flow

- 6,000 l/min



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



Easier to install: only requires intrinsically safe wiring



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



Global leader in purging technology—support in 70+ countries



Password-protected, user-configured operations



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

Your automation, our passion.

- Industrial Sensors
- Industrial Communication and Interfaces
- Enterprise Mobility
- Hazardous Area Products and Solutions

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Printed in the USA • Part. No. 70186516 3/25



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