

Product Description

Model YZ101A is a Type Y or Z pressurization unit designed to protect electrical equipment in Class I and Class II Hazardous Areas. When connected to a supply of protective gas, the Model YZ101A will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 / Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 2 / Zone 2 areas. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 / Zone 1 to Division 2 / Zone 2. This allows Division 2 / Zone 2 equipment to operate in Division 1 / Zone 1 Hazardous Areas.

Unit Operation

Prior to Start-Up: Ensure Protected Enclosure Power is OFF, Enclosure Pressure Control Regulator is closed, Protective Gas Supply is ON and alarm system is activated (if utilized). If utilized, test Purge Vent for proper operation. **Class II Area Start-Up:** Remove all dust from protected enclosure. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. **Class I Area Start-Up:** Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Allow unit to purge protected enclosure for the required time marked on Unit Start Up Instructions or for 5 minutes, minimum. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. Protected enclosure power should be de-energized if "Safe" pressure cannot be restored within a reasonable amount of time.

Unit Specifications

Class I & II Maximum Enclosure Volumes:	2 & 10 cubic feet
Universal Unit Weight:	3.5 lbs.
Vertical & Horizontal Unit Weights:	8.0 & 8.0 lbs.
Operating Temp. Range:	-20° F - 120° F
Protective Gas Supply:	* Air or Inert Gas
Supply Pressure w/ RR-4 Regulator:	5 psi maximum
Supply Pressure w/ PV-2 Vent:	80 - 125 psi maximum
Unit Supply Connection:	1/4" tube fitting
Enclosure Supply:	1/4" tube fitting
Enclosure Reference:	1/4" tube fitting
Safe Enclosure Pressure:	0.25" w.c.
Safe Pressure Flow Rate:	** 0.1 - 3.5 SCFH per cubic foot
Switch Set Point on Decrease:	0.15" w.c. ± 0.02"
Pressure Switch Conduit Port:	1/2" FPT
Pressure Switch Contact Ratings:	See EPSK Bulletin

* Air must contain no more than trace amounts of flammable vapors.
 ** Enclosure integrity determines safe pressure flow rate.

Recommended Accessories

Redundant safety devices are necessary to protect the enclosure from excessive pressure of the protective gas supply in accordance with the requirements of NFPA 496, EN 50016 and IEC 60079-02.

Best Purging Systems Corporation therefore strongly recommends a Model RR-4 Redundant Regulator installed upstream of this unit's enclosure pressure control regulator. As an alternative, a Model PV-2 Spark Arresting Purge Vent may be installed on the protected enclosure or the last enclosure of a pressurized enclosure array to relieve excessive pressure created by other sources.



Model YZ101A Type Y & Z Pressurization Unit

Class I Applications **Class II Applications**
Up To 2 Cubic Feet **Up to 10 Cubic Feet**

Technical Bulletin YZ101A TB-R0

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**Universal Mount Unit
less Pressure Switch for
any side or panel mounting**



**Vertical Mount Unit
with Pressure Switch for
left or right side mounting**



**Horizontal Mount Unit
with Pressure Switch for
top or bottom side mounting**



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Rear Views



Horizontal Mount Unit with Pressure Switch

Enclosure Pressure Reference Connection
Enclosure Pressure Gauge
Atmospheric Reference



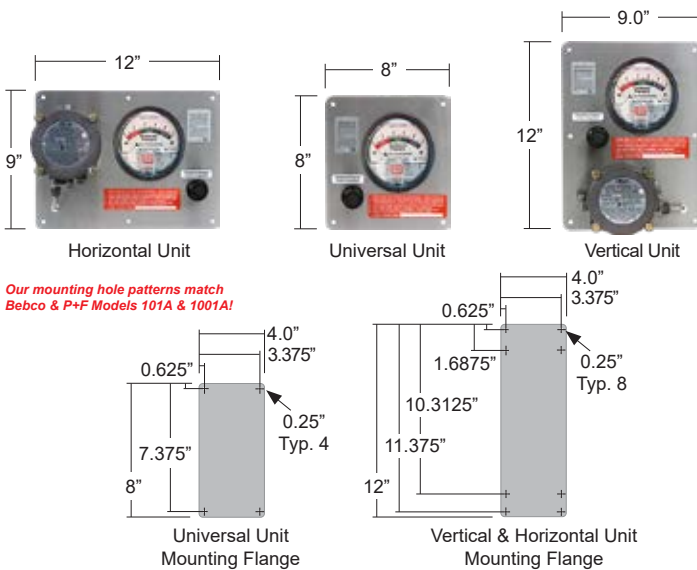
Universal Mount Unit less Pressure Switch

Unit Supply Connection
Enclosure Pressure Control Regulator
Enclosure Supply Connection



Vertical Mount Unit with Pressure Switch

Unit & Mounting Flange Dimensions



Model Number Matrix

Typical Model Number:

YZ 101A-CI/CII-L-U-*

Unit Type

Y - Division 1 / Zone 1 to Division 2 / Zone 2
Z - Division 2 / Zone 2 to Unclassified

Unit Series

101A - Purging & Pressurization Unit

Area Classification

CI/CII - Class I & Class II Areas

Pressure Switch Option

L - Less Switch
W - Class I, Group C & D / Class II, Group E, F & G Switch
B - Class I, Group A, B, C & D Switch

Mounting Configuration

U - Universal V - Vertical H - Horizontal

Group B Switch Voltage (omit if not applicable)

24 - 24 VDC 120 - 120 VAC 240 - 240 VAC

Please contact a Sales Associate for specifications and factory integration of Model PMGK Panel Mount Gasket Kits for Universal Mounting Configurations

Material Specifications

Unit Mounting Plate & Flange: 304 Stainless Steel
Tube Fitting Bodies & Ferrules: 316 Stainless Steel
Tube Fitting Compression Nut Coating: Molybdenum Disulfide
Enclosure Pressure Gauge Lens: Acrylic w/ Neoprene O-Ring
Enclosure Pressure Gauge Body: Cast Aluminum w/ Epoxy Finish
Fastener Kit Sealing Screws: 316 Stainless Steel w/ Neoprene O-Ring
Fastener Kit Sealing Washers: 18-8 Stainless Steel w/ Neoprene Washer
Fastener Kit Locking Nuts: 316 Stainless Steel w/ Nylon Insert

Atmospheric Reference: 316 Stainless Steel Body & 304 SS Element
Indelible Unit Nameplates: 3M Lexan™ w/ 3M VSB™ Adhesive
Pressure Control Regulator Head & Knob: Acetal Polymer Plastic
Pressure Control Regulator Body: Zinc w Buna N Elastomers
Pressure Switch Body: Cast Aluminum w/ Epoxy Finish
Pressure Switch Body Bolts: Zinc Plated Steel
Pressure Switch Contacts: Mica Silver
Enclosure Pressure Gauge & Switch Diaphragms: Fluorosilicone

Unit & Protected Enclosure Accessory Bulletin Hyperlinks



Model PV
Spark Arresting Pressure Vents
Prevents excessive enclosure pressure upon unit regulator failure



Model RR
Redundant Supply Pressure Regulators
Prevents excessive enclosure pressure upon unit regulator failure



Model BCK
Unit & Bulkhead Connection Kits
Connects the unit and multiple protected enclosures of an array



Model RAB & RAH
Remote Alarm Beacons & Horns
Signals loss of protected enclosure safe pressure



Model EPSK
Enclosure Pressure Switch Kits
Complements universal mount units to activate audible or visual alarms



Model EPWN & ETWN
Pressure & Temperature Warning Nameplates
Provides NFPA required markings for protected enclosure doors and covers



Model PMGK
Panel Mount Gasket Kits
Converts universal mount units for panel mounting in protected enclosures

One (1) Model EPWN Enclosure Warning Nameplate & One (1) Unit Flange or Panel Mount Fastener Kit furnished with all Units. All specifications subject to change without notice. Warranty & Liability policies available upon request.