Product Description

Model YZ102 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class I Hazardous Areas. When connected to a supply of protective gas and utilized in conjunction with a Model PV-2 Spark Arresting Purge Vent, the Model YZ102 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure and accomplish purging of the protected enclosure in an expedited manner. 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, Protective Gas Supply is ON, Filter Regulator is set to 60 PSI, and alarm system is activated (if utilized). Test Purge Vent for proper operation. **Start-Up**: Close and seal Protected Enclosure. Open Enclosure Pressure Control Valve until a "Safe" reading is shown on the Enclosure Pressure Gauge. Open Purge Control Value and allow unit to purge protected enclosure for the required time marked on Unit Start Up Instructions or for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Product Specifications

Maximum Enclosure Volume: Universal Unit Weight:	15 cubic feet 8.5 lbs.
Vertical & Horizontal Unit Wei	ghts: 13.5 & 13.5 lbs.
Operating Temp. Range:	-20° F - 120° F
Protective Gas Supply:	* Air or Inert Gas
Unit Supply Pressure:	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
Purging Enclosure Pressure:	** 5" - 8" w.c.
Purging Flow Rate:	4 SCFM / 240 SCFH @ 60 psi
4 Volume Purge Time:	1 minute per 1.0 cubic foot
5 Volume Purge Time:	1 minute per 0.8 cubic foot
Switch Set Point on Decrease	0.15" w.c. ± 0.02"
Pressure Switch Conduit Port:	1/2" FPT
Pressure Switch Contact Ratir	ngs: See EPSK Bulletin

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

Required Accessory

A Model PV-2 Spark Arresting Vent is required for proper operation of the purging cycle and 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 requires the purchase of a Model PV-2 Spark Arresting Purge Vent with this unit for installation on the protected enclosure or the last enclosure of an enclosure array.



Model YZ102 Type Y & Z Purging & Pressurization Unit

Class I Applications Up To 15 Cubic Feet

Technical Bulletin YZ102 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

Unit Supply Connection Enclosure Supply Connection Atmospheric Reference

Filter

Regulator

Enclosure Pressure Control Valve

Universal Mount Unit

less Pressure Switch

Control Valve Enclosure Pressure Reference Connection Enclosure Pressure Gauge

Purge



Vertical Mount Unit with Pressure Switch

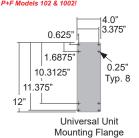
Unit & Mounting Flange Dimensions

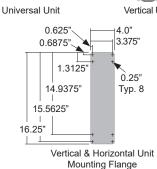






Our mounting hole patterns mate Bebco & P+F Models 102 & 1002





Model Number Matrix

Typical Model Number:	<u>¥Z 102-ÇI-Ļ-Ų-</u> ^	
Unit Type Y - Division 1 / Zone 1 to Division 2 / Zone 2 Z - Division 2 / Zone 2 to Unclassified		
Unit Series — 102 - Purging & Pressurization Unit		
Area Classification ————————————————————————————————————		
Pressure Switch Option L - Less Switch W - Class I, Group C & D Switch B - Class I, Group A, B, C & D Switch		
Mounting Configuration U - Universal V - Vertical H - Horizo	ontal	
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

Mounting Plate, Flange & Atmospheric Reference: Valve & Fitting Bodies, Ferrules & Unit Fasteners: Tube Fitting Compression Nut Coating:

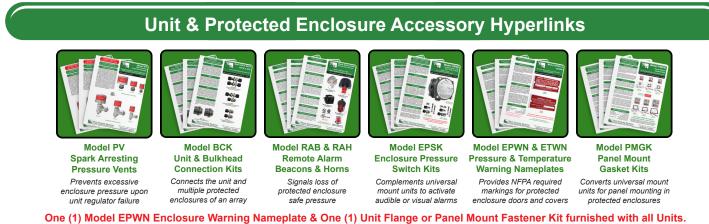
Enclosure Pressure Gauge Lens: Enclosure Pressure Gauge Body: Fastener Kit Sealing Screws: Fastener Kit Sealing Washers: 18-8 Stainless Steel w/ Neoprene Washer Fastener Kit Locking Nuts:

304 Stainless Steel 316 Stainless Steel Molybdenum Disulfide Acrylic w/ Neoprene O-Ring

Cast Aluminum w/ Epoxy Finish 316 Stainless Steel w/ Neoprene O-Ring 316 Stainless Steel w/ Nylon Insert

www.purgeit.com

Atmospheric Reference: 316 Stainless Steel Body & 304 SS Element 3M Lexan[™] w/ 3M VSB[™]Adhesive Indelible Unit Nameplates: Supply Regulator Head & Bowl: Acetal Polymer Plastic Supply Regulator Body: Zinc w Buna N Elastomers Supply Pressure Gauge: Painted Steel Case, Plastic Lens, Brass Body Cast Aluminum w/ Epoxy Finish Pressure Switch Body: Pressure Switch Bolts & Contacts: Zinc Plated Steel & Mica Silver Enclosure Pressure Gauge & Switch Diaphragms: Flurosilicone



All specifications subject to change without notice. Warranty & Liability policies available upon request.

Best Purging Systems Corporation

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