

**OPTIONAL ACCESSORIES  
For Model WAC & WHP Air  
Conditioners & Heat Pumps**

**Description**

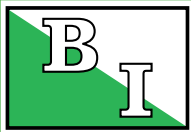
Models EV-1, PV-1 and PV-2 are economy and powered ventilator units that are intended to enhance Bebcos Model EX, CX or IX Style WAC or WHP Air Conditioner (ac) or Heat Pump Units. The purpose of these units is to direct makeup air through the discharge grill assembly of a modified ac or heat pump unit. The Model EV-1 Economy Ventilator is designed to allow the unassisted delivery of makeup air into the air conditioner or heat pump unit at a maximum rate of up to 25% of the ac or heat pump unit's evaporator blower air flow rating. Model PV-1 and PV-2 Powered Ventilators deliver makeup air with a motor driven blower at rates of 200 scfm and 450 scfm, respectively.

**General Features**

All Model EV and PV Units feature a fully seal metal housing that can be pre-attached at our factory or installed in the field. The Model EV-1 Unit features an adjustable metal damper, positioned by an external locking adjustment handle, an intake filter and an external filter access cover for easy service. Model PV-1 & PV-2 Units feature an explosion proof motor and blower housing, inlet filter, and two interchangeable side covers for access to interior components. One side cover features a separate filter access cover that can be positioned at time of installation to face outward for easy service. All units feature a stack inlet for the addition of spiral duct piping, and can be constructed from 14 gauge galvanized or stainless steel. Standard finishes include the Bard Corporation's standard tan color enamel paint (as shown in photos to right), white urethane paint or a natural brushed finish for stainless steel material. Custom paint finishes can be applied upon request by providing a written specification at time of order. Gasket strips and fasteners are supplied with all units to facilitate attachment to the side of the ac or heat pump unit being modified.

**PV-1 & PV-2 Features**

Model PV-1 and PV-2 Units feature a 16 gauge galvanized steel blower housing which secures an Underwriter's Laboratories (UL) Listed totally enclosed, non-ventilated (TENV) Class I, Group C&D, Division 2 hazardous (classified) location rated motor that drives a non-sparking aluminum blower wheel, in complete accordance with National Electric Code (NEC) Article 500 design requirements. The motor has 24" wiring leads and is fitted with a screw cover conduit outlet box, 1/2" seal-flex conduit and a 1/2" conduit hub that penetrates the middle right front surface of the housing, just above the airflow discharge opening.



**MODEL EV & PV  
ECONOMY & POWERED  
VENTILATOR UNITS**

**ECU Division Technical Bulletin EV/PV-R1.0** **10/03**



**Model EV-1**



**Model PV-1**

**Operation**

Operation of the Model EV-1 Unit is manual. The volume of makeup airflow is regulated by adjusting the damper while measuring airflow through the inlet or from the discharge grill of the modified ac or heat pump unit within the room or building.

Operation of Model PV-1 and PV-2 Units may be either automatic or continuous. Optional accessories include a Powered Ventilator Control Relay, a Hand/Off/Auto Switch and a Model BPM-WPS Building Pressure Monitor that features a differential pressure indicator and a Class I, Group C&D, Division 2 rated differential pressure switch. When all accessories are added, the Evaporator Blower of the modified ac or heat pump is normally wired for continuous operation. In the "Auto" mode, the PV Unit blower will then engage upon loss of pressure within the room or building. In the "On" mode the PV Unit blower operates continuously, and in the "Off" mode, the blower is disabled.

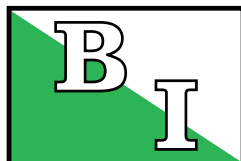
**Material Specifications**

**UNIT HOUSINGS & EV-1 DAMPER**

Unit Body:	14 Gauge Galvanized Steel or 14 Gauge #316 Stainless Steel
Gasket Strips:	1" Closed Cell Black Neoprene
Fasteners:	#316 Stainless Steel
Filter Media:	Polyurethane Open Cell Foam
Filter Frame:	23 Gauge Anodized Aluminum
Damper Frame:	16 Gauge Galvanized Steel
Damper Blade:	20 Gauge Galvanized Steel
Adjustment Handle:	Zinc Plated Steel

**PV-1 & PV-2 MOTOR & BLOWER**

Blower Body:	20 Gauge Galvanized Steel
Blower Wheel:	16 Gauge Aluminum
Motor:	Enamel Painted Carbon Steel
Conduit Outlet Box & Cover:	Malleable Iron w/ Zinc Electroplate, Dichromate & Epoxy Powder Coating
Conduit Hub:	Die-Cast Zinc w/ PVC Wire Guard & Neoprene O-Ring
Seal-Flex Conduit:	PVC Coated Galv. Steel



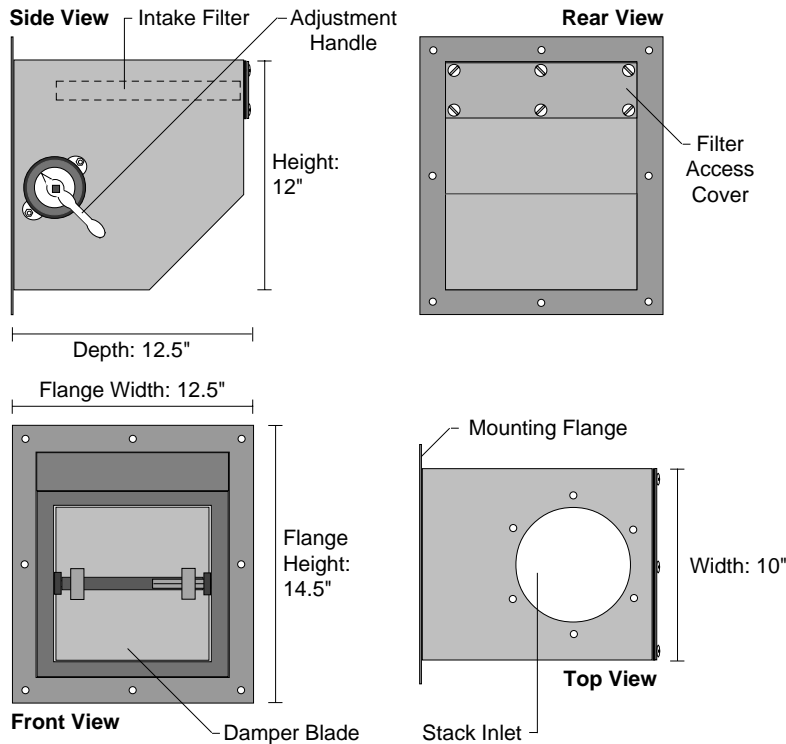
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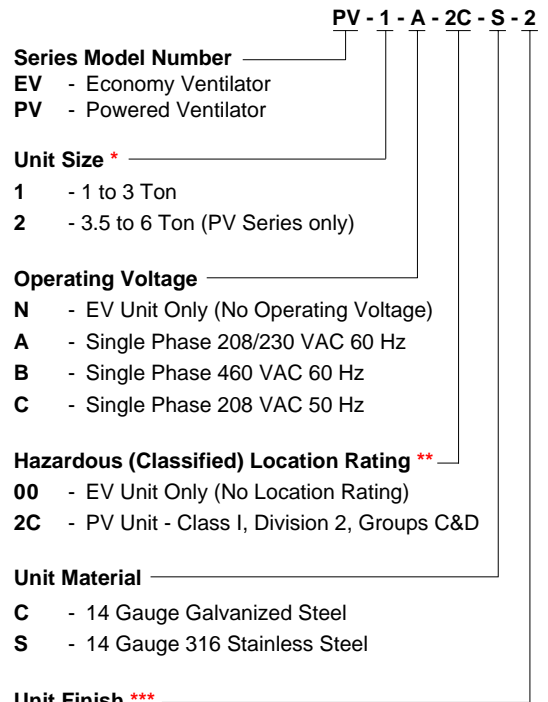
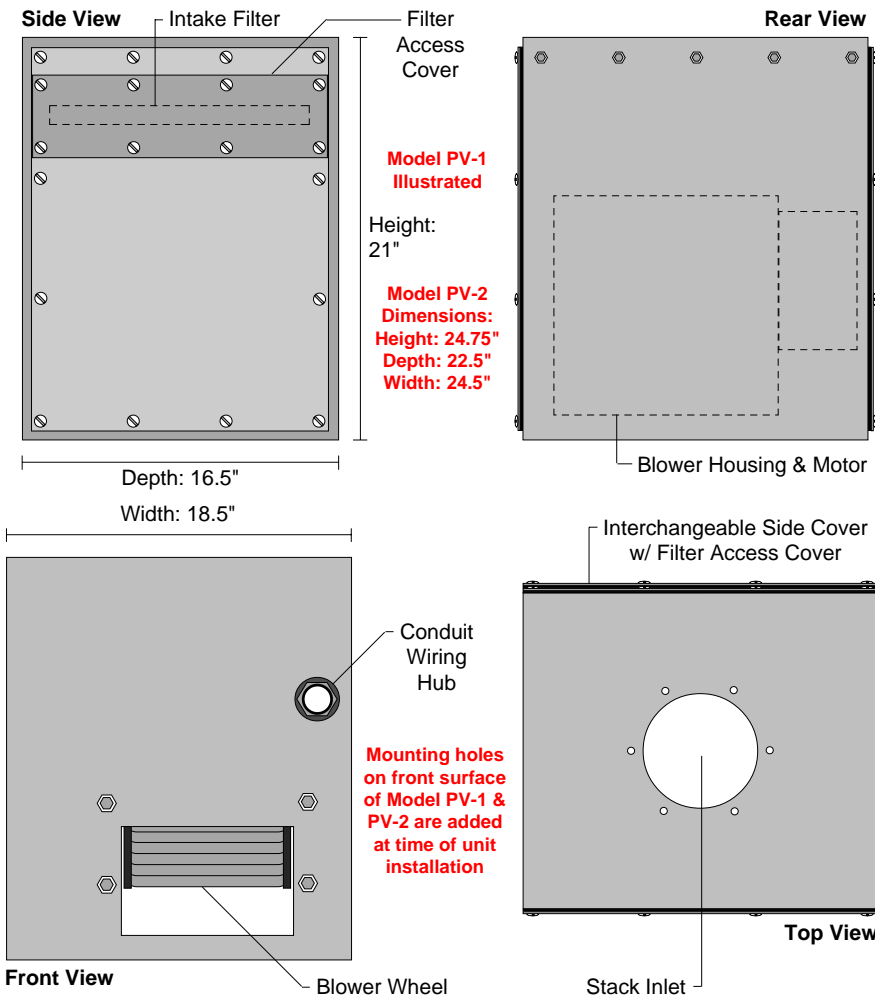
# Unit Features & Dimensions

# Model Number Designations

## MODEL EV-1



## MODEL PV-1 & PV-2



- Unit Finish \*\*\***
- 0 - Bard Tan Enamel Finish
  - 1 - White Urethane Finish
  - 2 - Brushed Finish (Stainless Material Only)
  - 3 - Custom Finish

### Special Notes:

- \* Tonnage of AC or Heat Pump to be modified
- \*\* Custom motor rating available upon request
- \*\*\* Custom Finish requires written specification

# Unit Accessories

- MODEL EV-1 & PV-1 GALVANIZED OR SS SPIRAL STACK PIPE**
- SP-6-120 6" x 10' Flanged Stack Section
  - SC-6 6" Flanged & Screened Rain Cap
  - SN-6 6" Flanged Elbow w/ Coupler
  - GK-6 6" Flange Gasket & Bolt Kit
- MODEL PV-2 GALVANIZED OR SS SPIRAL STACK PIPE**
- SP-8-120 8" x 10' Flanged Stack Section
  - SC-8 8" Flanged & Screened Rain Cap
  - SN-8 8" Flanged Elbow w/ Coupler
  - GK-8 8" Flange Gasket & Bolt Kit
- SPIRAL STACK PIPE GUY WIRE KITS**
- EAGK-40-0608 Earth Anchor Guy Wire Kit
  - CAGK-40-0608 Concrete Anchor Guy Wire Kit
- MODEL PV-1 & PV-2 ELECTRICAL CONTROLS**
- PV-CR1 Powered Ventilator Control Relay
  - EXP-HOA Explosion Proof Hand-Off-Auto Switch
  - BPM-WPS Differential Indicator & Pressure Switch

# Local Sales Representative

## Bebco Industries, Incorporated

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### IMPORTANT NOTES

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