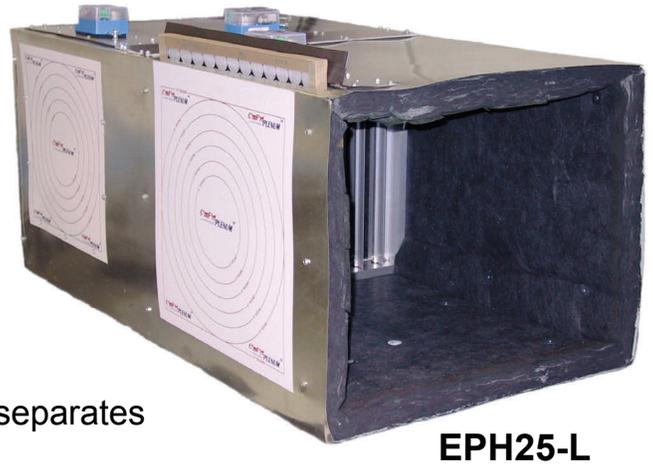


# ECONO PLENUM™

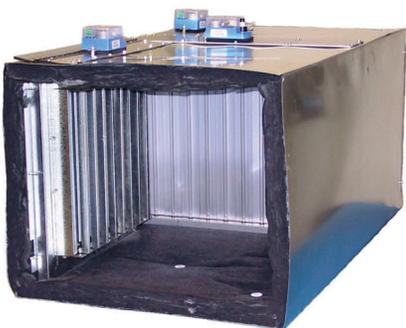
U.S. Patent Pending

## Return Air Plenum Economizer Designed to Control Outside Air, Exhaust Air and Return Air.

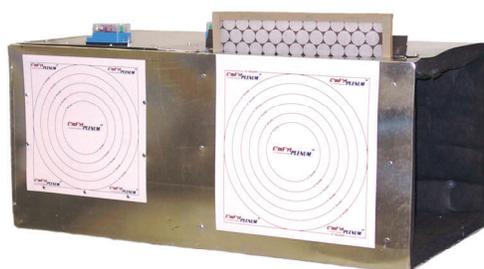
- Order dampers on the left or the right
- EconoPLENUM Kit includes economizer controller and outdoor air and exhaust louvers
- 21" high x 25" wide 24 gauge sheet metal plenum
- 4' long with 2" duct liner, glued and pin spotted
- Rectangular gear driven, opposed blade damper separates mixed air chamber from return air chamber
- Fresh air damper includes 20"x 20"x 1" pre-filter. 16" x 16" cutting guide on the outside allows up to 16" round duct take-off. Includes insulated gear driven opposed blade damper.
- Exhaust damper includes 14" x 14" cutting guide on the outside allows up to 14" round duct take-off. Includes insulated gear driven opposed blade damper.
- Power open/power close motors adjust to any maximum or minimum position
- Damper motors include red and green LED's to indicate opening, closing, full open or full close



EPH25-L



Fresh air damper is open, return damper is closed, exhaust air open. Allows outside air to economize the cooling calls and furnish up to 100% suitable conditioned air for cooling and/or ventilation.



Fresh air is pre-filtered before entering the mixed air chamber with 1" thick, 20" x 20" filter. Cutting guides indicate where to cut the duct opening. Fresh air opening will accommodate 16" round. Exhaust air will accommodate 14" round duct.



2 each - 14" x 25" rectangular louvers are included with 8" rectangular extensions for outside air intake and exhaust. Each is made of 22 gauge paint grip sheet metal with 1/8" bird screen.

## Installation

**ECONOPLENUM™** may be mounted in any configuration. The open end of the plenum is designed to connect to a return air filter frame or the return air opening of equipment. The **ECONO- PLENUM™** is usually installed on split system equipment, but can easily be used on the return air opening of rooftop equipment.

The Cutting Guides are furnished on the outside of the **ECONO- PLENUM™** to show the installer where to cut based on the location of the fresh air damper and the exhaust air damper that are mounted on the inside of **ECONOPLENUM™**. When cutting the take-off holes in the plenum, the damper blades should be in the closed position. Failure to close damper blades can cause damage to the blades when cutting take-off holes.

Mounting the starting collar into a round or rectangular hole through the cutting guide is the same as installing starting collars in a plenum without dampers. Fold the tabs on the inside of the plenum against the duct liner so as to clamp the duct liner between the tab and the inside of the sheet metal plenum. Spin-in starting collars are also installed as normal.

Each motor requires three wires; power open, power close and common. Each damper motor has a green light that blinks green when opening and stays solid green when completely open. Each damper motor also has a red light that blinks red when closing and stays solid red when completely closed.

Each motor has adjustable set screws for minimum or maximum position. This operates as a balancing damper when necessary.

## Motor Specifications

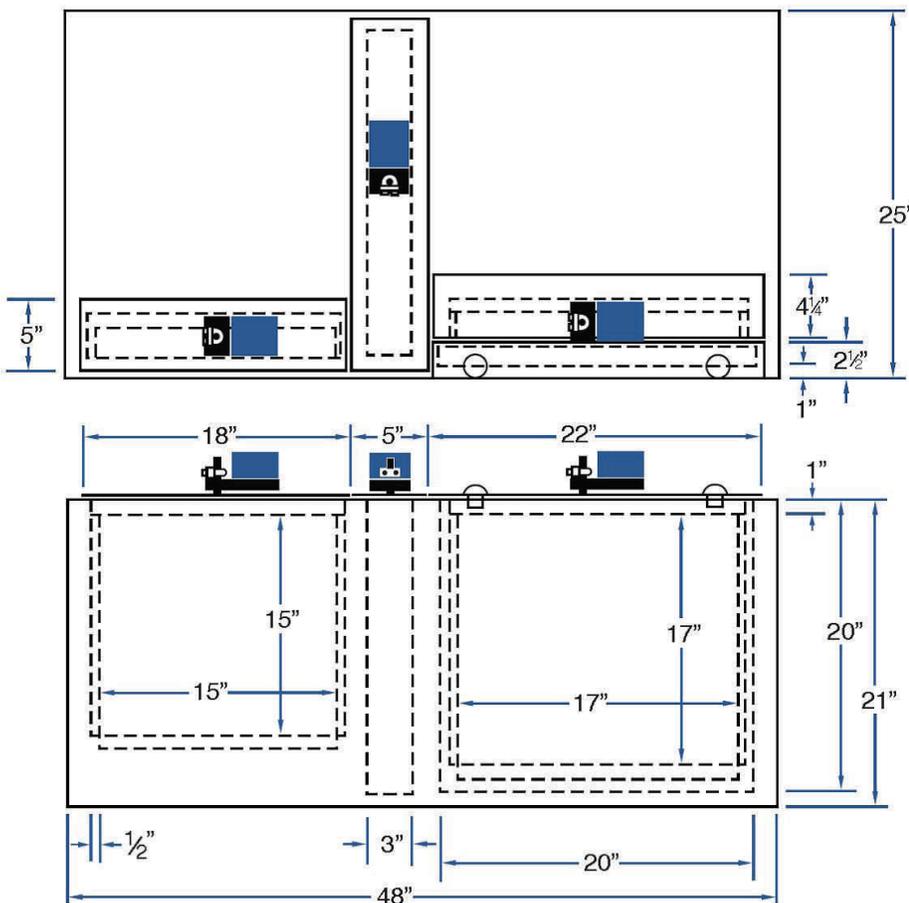
<b>Power</b>	24VAC, 2.5 VA typical (4 VA max)
<b>Actuator</b>	Model # POCJ Electronic Time-Out at End of Travel 18 in-lb Torque Power-Close / Power-Open 30 Second Motor Max 90 Degree Travel
<b>Position Indicator</b>	Configured on Shaft
<b>Wiring</b>	3 Screw Terminals PO, PC, Common Use 18 Gauge Solid Core 3-Wire

**C<sup>o</sup>mF<sup>o</sup>rt PRODUCTS, Inc.**

**Verifiable Comfort and Energy Savings**

Factory Representative: Greg Talley  
Office (817) 349-6966 Mobile (817) 937-9740  
Email gttalley@comfortproductsinc.com  
Website www.comfortproductsinc.com

## Damper and Plenum Dimensions



The damper configuration shown indicates dampers on the left when looking from the equipment end of Econo- PLENUM. This end is open to equipment, the other end has the endcap.