



MOTORIZED BYPASS DAMPER

**Model 3092
ELECTRONIC PRESSURE CONTROL**

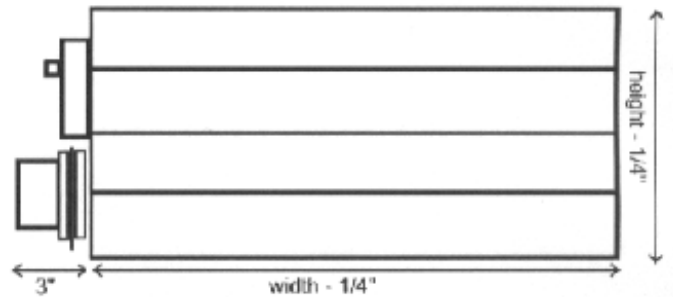
Application and Design

The Young Regulator 3092 rectangular bypass damper regulates the total airflow in the system by diverting the excess airflow through the bypass into the ceiling plenum for free or ducted return.

An increase in static pressure is sensed by the built in static pressure sensor/controller through the probe. At the desired static pressure, sensed by the solid-state pressure controller and adjustable by the installer, motor will begin to modulate the damper open to bypass the excess air flow and pressure. The damper will open until the desired static pressure is attained. Damper blade will stall and pressure will be maintained until another change in pressure. If zones are satisfied and more zone dampers close, bypass damper will open further. If zones require more air and zone dampers open, pressure reducing damper sensor will sense a decrease in pressure and the bypass damper will close.

Damper Ratings and Construction

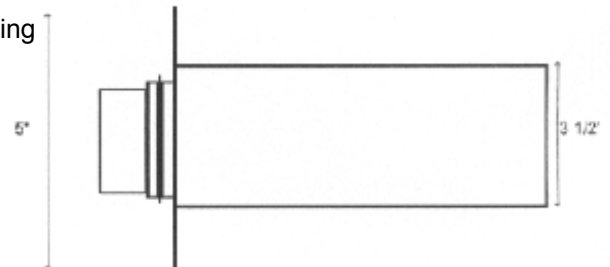
- Pressure:** 3" W.C.
- Velocity:** 1,500 CFM
- Temperature:** 20°F to 125°F
- Frame:** 14 gauge roll-formed corrosion resistant galvanized steel 3 1/2" wide
- Blade:** 16 gauge galvanized
- Linkage:** heavy-duty commercial grade
- Blade Axles:** oil impregnated bronze
- Mounting Plate:** 18 gauge galvanized steel
- Blade Seals:** Vinyl
- Jam Seals:** Stainless Spring Steel



Damper Size Information

- Minimum Size:** 12" x 12"
- Maximum Size:** 36" X 36"
- Other sizes, contact the factory

- Actuator** 24V, 35 in. lb Direct Coupled, 90 second timing
UL and CSA Listed
2.0 Watts, .085 Amperes, 2.04 VA



Static Pressure Controller (pt# 3092-21)

- Differential Pressure
- Setpoint Range: 0.2 to 2. inches of water
- Operating Temp. 35° to 140°F
- Electrical Switch: Floating SPDT. Integral Arc Suppression
Rated 1.0 amps @ 24 Vac.
- Case: All metal, 1/2" conduit opening
NEMA Type 1 enclosure

QUANTITY	SIZE		
	W	H	
PROJECT			LOCATION
CONTRACTOR			DESIGN SPECIFIER