

## 3085 VAV Opposed Blade Damper

The Young 3085 variable volume opposed blade damper provides zone temperature control through modulating action for low pressure systems up to 2" W.C., using a slow open/close cycle with a deadband thermostat.

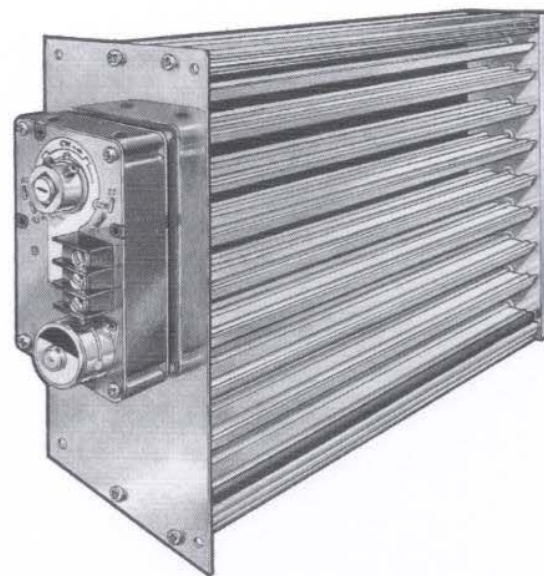
### FEATURES

- Opposed blade damper design with heavy duty .050 extruded aluminum blade and frame with stainless steel slide construction for long, corrosion-resistant life.
- Hunting and temperature overruns are held to a minimum.
- Mounting plate with motor attached allows slip-in installation in the side of the duct.
- Adjustable minimum position setting built into motor for easy adjustment.
- New, individual blade bushings for smoother and quieter operation.

### OPERATION

The 3085 is operated by a 3-wire, 24 volt, stall-type reversing motor through a deadband thermostat. Damper is powered in both directions and takes 7 minutes to go from fully open to fully closed and vice versa. A SPDT thermostat with center-off deadband for floating control must be used. Optional controls, all available separately, include:

- See Model 2085 for heating and cooling auto-changeover version.
- T-312 or T-641 dead-band floating control thermostat for heat only or cool only.
- T-313-CE deadband floating control for manual changeover.
- T-322 and T-422 for digital stat with P + I control (order 90 second timing).
- A201052 auxiliary switch for micro switch control of exterior equipment.



### MOTOR OPTION

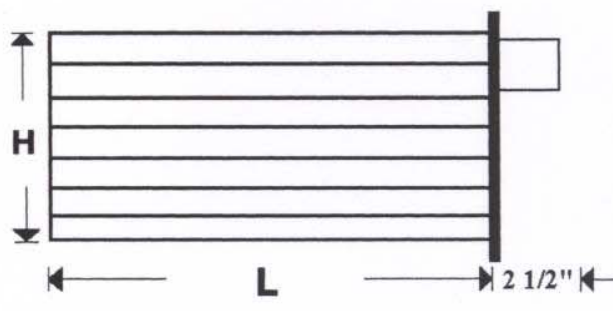
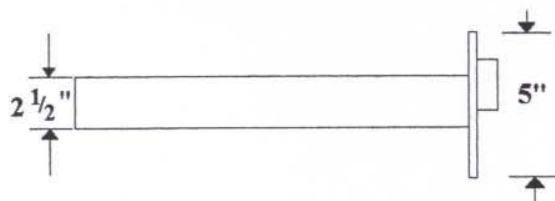
- 90 second
- 60 second
- 5 minute
- Spring return open or close
- 2-10 Vdc or 4-20mA

### AVAILABLE SIZES

Standard sizes range from 8" x 6" though 24" x 24". Please call the factory for intermediate and larger sizes.

### OPTIONS

- Special motors (direct drive).
- Bottom mounted motor.
- 90-second motor (for faster response time).
- Motors by other (order 3085NM).
- R319 2-Position Relay.



YOUNG REGULATOR COMPANY  
20910 Miles Parkway • Cleveland, Ohio 44128  
(216) 663-5646 • Fax (216) 663-1830