



Young Regulator Co.

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Submit 3085-IF 2-18

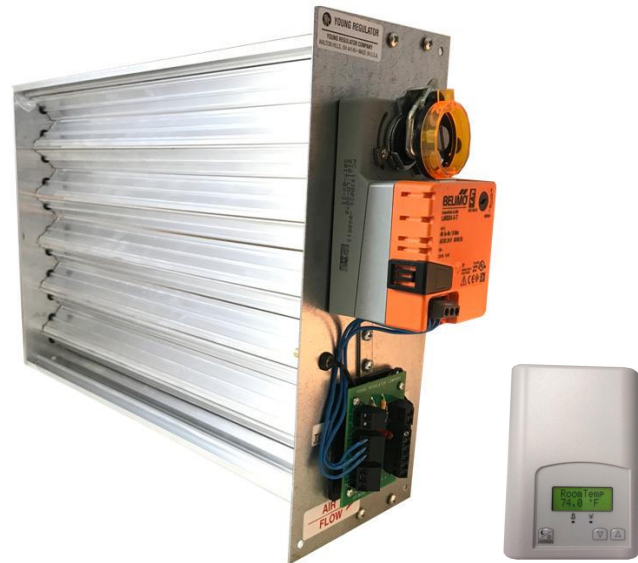
Model 3085-IF

*Rectangular Opposed Blade Damper w/
 Belimo LMB24 Motor for On-Off
 and Interface Board*

Application and Design

Young Regulator's "Simple Zone" product line makes stand-alone zoning easier than ever. Each damper assembly comes with a pre-installed temperature sensor, primary actuator and integrated interface board for an easy field connection to our T-720 thermostat.

The 3085-IF Rectangular Zone Damper is constructed of 20 ga. aluminum frame and blades, with a stainless steel slide mechanism and a 1/2" round plated steel damper shaft that pivots in a oil impregnated bronze bushing. A mounting plate facilitates slip-in installation. By cutting a 2 1/2" slot in the side of the duct, the damper is secured to the side with 4 screws.



*Paired with T-720 Thermostat (Sold Separately)

STANDARD CONSTRUCTION	
Frame	.050 Aluminum Extrusion with Reinforcing Channels
Blade	.050 Aluminum Extrusion with Reinforcing Channels
Shaft	1/2" Plated Steel
Slide	Stainless Steel
Blade Bushing	Oil-Impregnated Bronze
Low Leak Seals	Not Available
SIZE INFORMATION Damper 3/16" Undersized High & Wide	
Frame Width	2 1/8" Wide
Mounting Plate	5" Wide x Damper Height
Blade Width	1.438" - Contained Within Frame
Max Size	24" x 24", 36" x 14" Bottom Mount
Min Size	3" x 3"

BELIMO LMB24 ACTUATOR	
24v On-Off and Floating Point Control	
Volts	24V
Watts	1.5
VA	3
Noise Level	<35 dB (A)
Timing	95 Seconds Constant
Torque	45 in. lb.
Built in motor stop for minimum and maximum air also, Reflective visual position indicator	
OPTIONS	
Transformers	Aux. Switch

QUANTITY	WIDE	HIGH	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER



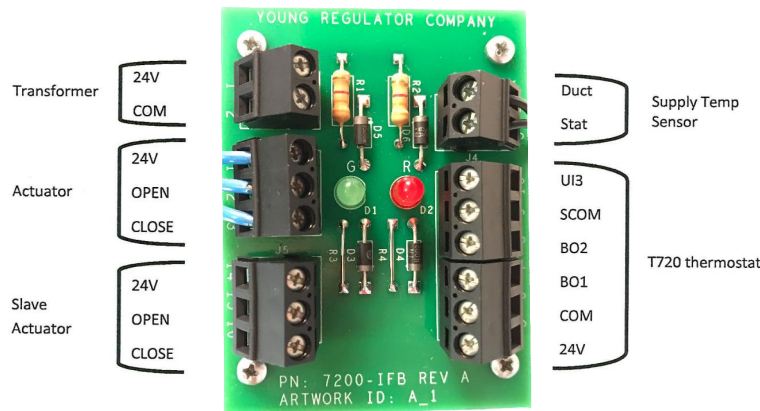
Engineering Specifications

The interface board for the T720 thermostat is provided to aid in the installation of the thermostat and damper assembly. With this option, the supply temperature sensor is preinstalled in the damper and the connections are prewired to the primary actuator and sensor at the factory. Field connections consist of the transformer and thermostat wiring. For convenience, an extra terminal block is provided for installation to a slave damper.

Sequence of Operation:

The supply temperature sensor (AKA duct stat) determines if warm or cold air is available in the supply. This information is shown on the thermostat by displaying Heating mode or Cooling mode. As the thermostat works to control the space temperature to the set-point, the damper will open, close, or modulate as needed. The Interface Board features a GREEN and a RED LED. When lit,

- The GREEN LED indicates the damper is opening
- The RED LED indicates the damper is closing
- When BOTH are lit, the thermostat is satisfied and the damper is stalled



WIRING SCHEMATICS

NOTE: Young Regulator recommends the use of 18 gauge thermostat wire

