



## Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

[www.youngregulator.com](http://www.youngregulator.com)

Submit 3085-CHB-IN Jun 15

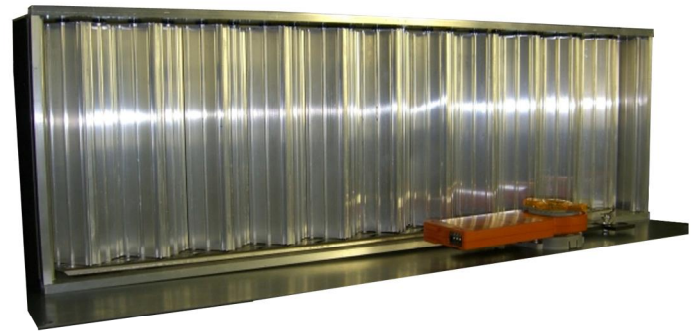
### Model 3085-CHB-IN

*Rectangular Opposed Blade Modulating  
VAV Damper Actuator in the Air Stream*

## Application and Design

The Young Regulator 3085-IN damper is an opposed blade damper designed so that it can be slipped into the duct with the Belimo actuator and linkage concealed within the framework of the damper. The opposed blade design allows for more even distribution of air for a quieter system and less turbulence.

The Low-Profile CHB Linear actuator has been chosen to maximize free area. This is an ideal damper for retrofit application. The 3085-CHB-IN regulates the flow of air by modulating control. The linear actuator operates in response to an electronic control signal. Use a Proportional and Integral thermostat like the T-720 (digital LED display) or the T-422 (analog).



STANDARD CONSTRUCTION	
Frame	.050 Aluminum Extrusion with Reinforcing Channels
Blade	.050 Aluminum Extrusion with Reinforcing Channels
Slide	Stainless Steel
Blade Bushing	Individual Synthetic
Low Leak Seals	Not Available
SIZE INFORMATION Damper 3/16" Undersized High & Wide	
Frame Width	2 1/8" Wide
Mounting Plate	6.5" Wide x Damper Width
Blade Width	1.438" - Contained Within Frame
Max Size	36" x 24"
Min Size	10" x 4"

Belimo Low-Profile Linear Actuator Brushless motor	
Volts	24V
Watts	0.5 @ nominal torque 0.2 at rest
VA	1 VA
Timing	50 Seconds - Full Stroke
Force	28 LBF
Operational Temperature Range	-22oF to 125oF
Built in motor stop for minimum and maximum air	
OPTIONS	
Transformers	T-720 P&I Digital Thermostat
2-10V, 4-20mA Motors	T-422 Analog Thermostat
For Spring Return Use 3085-TF-IN	

QUANTITY	WIDE	HIGH	NOTES (MOTOR ON THE WIDE SIDE)
PROJECT	LOCATION		
CONTRACTOR	DESIGN SPECIFIER		