



Young Regulator Co.

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Submit 3085 – 1-10

Model 3085-H90

*Rectangular Motorized Damper
 Modulating VAV Damper w/ 90 Second Motor*

Application and Design

The Young Regulator Model 3085-H-90 regulates the flow of air by modulating control. They are equipped with a direct-coupled 90-second actuator that operates in response to an electric control signal. The damper will provide modulating zone temperature control in residential and light commercial zoning applications with modulating action in heat only or cool only applications when used with a proportional and integral (P+I) thermostat like the Young Regulator models T-422 and T-322-JS.

Optional duct sensor (S-422 and S-322), wired to the thermostats, provide automatic changeover in heating and cooling applications.

The opposed blade design allows for more even distribution of air for a quieter system and less turbulence.



STANDARD CONSTRUCTION	
Frame	.050 Aluminum Extrusion with Reinforcing Channels
Blade	.050 Aluminum Extrusion with Reinforcing Channels
Mounting Plate	5" Wide x Damper Height
Shaft	½" Plated Steel
Slide	Stainless Steel
Blade Bushing	Individual Synthetic
Low Leak Seals	Not Available

SIZE INFORMATION	
Undersized = 3/16" High & Wide	
Frame Width	2 1/8" Wide
Blade Width	1.438" - Contained Within Frame
Max Size	24" x 24", 36" x 14" Bottom Mount
Min Size	3" x 3"

HONEYWELL ML6161 ACTUATOR	
Non-spring return direct-coupled actuators. Floating actuators used with single pole / double throw (SPDT) proportional and integral thermostats.	
Volts	24V
Watts	2.0
VA	2.2
Amp	0.085
Timing	90 Seconds
Torque	35 in. lb.
Built in motor stop for minimum and maximum air	

OPTIONS	
Transformers	
T-322-JS Digital Display P+I Thermostat and S-322 Changeover Sensor	T-422 P+I Thermostat and S-422 Changeover Sensor

QUANTITY	WIDE	HIGH	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER