



Young Regulator Co.

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Submit 2165 – 1-10

Model 2165

*Rectangular Motorized Zone Damper
 Automatic Changeover Zone Damper
 Power Open / Power Close, 24v Thermostat Control*

Application and Design

The Young Regulator Model 2165 is a motorized rectangular opposed blade zone damper with automatic changeover relay board and sensor that will control isolated over-heating and over-cooling. It is constructed of an extruded aluminum frame and blades, stainless steel slide, and a 24V drive open / drive closed motor.

The automatic changeover relay (R-316) consists of a duct sensor and relay board. Duct sensor is factory installed on damper to be positioned upstream to sense supply air temperature. Supply duct air temperatures 72 degrees or greater will direct the relay board to put the damper in the heating mode, so that damper will close when room temperature is greater than the wall thermostat set point. Supply duct air temperatures less than 72 degrees will direct the relay board to put the damper in the cooling mode, so that damper will open when room temperature is greater than the wall thermostat set point.



STANDARD CONSTRUCTION	
Frame	.050 Aluminum extrusion with reinforcing channels
Blade	.050 Aluminum extrusion with reinforcing channels
Shaft	½" Plated Steel
Slide	Stainless Steel
Blade Bushings	Individual Synthetic
Low Leak Seals	Not Available

SIZE INFORMATION	
Damper 3/16" undersized high and wide	
Frame Width	2 1/8" Wide
Blade Width	1.438" Contained within frame
Max Size	24" x 14"
Min Size	3" x 3"

ACTUATOR (24V)

Double stacked, special windings and heavy-duty steel gearing provide for long life and easy spring return operation. Cross pin on motor shaft provides positive direct drive to damper without a coupling or setscrews and allows for quick and easy motor change.

Automatic Changeover Relay Board and Duct Sensor
 Reverses damper operation for heating and cooling

Volts	24V
Watts	6
VA	10
Timing	15 Sec Powered
Torque	35 in. oz.

Adjustable minimum air

OPTIONS (AT ADDITIONAL COSTS)

Transformers	Thermostats T-312-CE or T-511
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QUANTITY	WIDE	HIGH	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER