



**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 2050 – 1-10

**Model 2050**

*Rectangular Automatic Changeover  
 Zone Damper - Power Open / Spring Close*

**Application and Design**

The Model 2050 rectangular damper can be used to control a single room or zone a number of rooms (if several dampers are used). A zone control panel is not required. This damper can be used to solve isolated over-heating and over-cooling problems. A built in sensor and automatic changeover relay board senses supply air temperature for heating mode or cooling mode. In cooling mode (supply air temperature less than 72°), the damper will open on a rise in temperature. In heating mode (supply air temperature 72° or greater), the damper will spring close on a rise in temperature.

Use the T-312-CE, T-641 or T-511 digital display SP/DT thermostat. Up to two dampers can be controlled from a single thermostat.



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	Individual Synthetic
Low Leak Seals	Not Available
SIZE INFORMATION Damper 3/16" undersized high & 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 STANDARD)	
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.	
Volts	24V
Watts	6
VA	10
Amp	.45
Timing	15 Sec Powered. 5 Sec Return.
Torque	35 in. oz.
Built in motor stop for minimum air	
OPTIONS	
Transformers	Thermostats

QUANTITY	WIDE	HIGH	NOTES

<b>PROJECT</b>	<b>LOCATION</b>
<b>CONTRACTOR</b>	<b>DESIGN SPECIFIER</b>



## Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

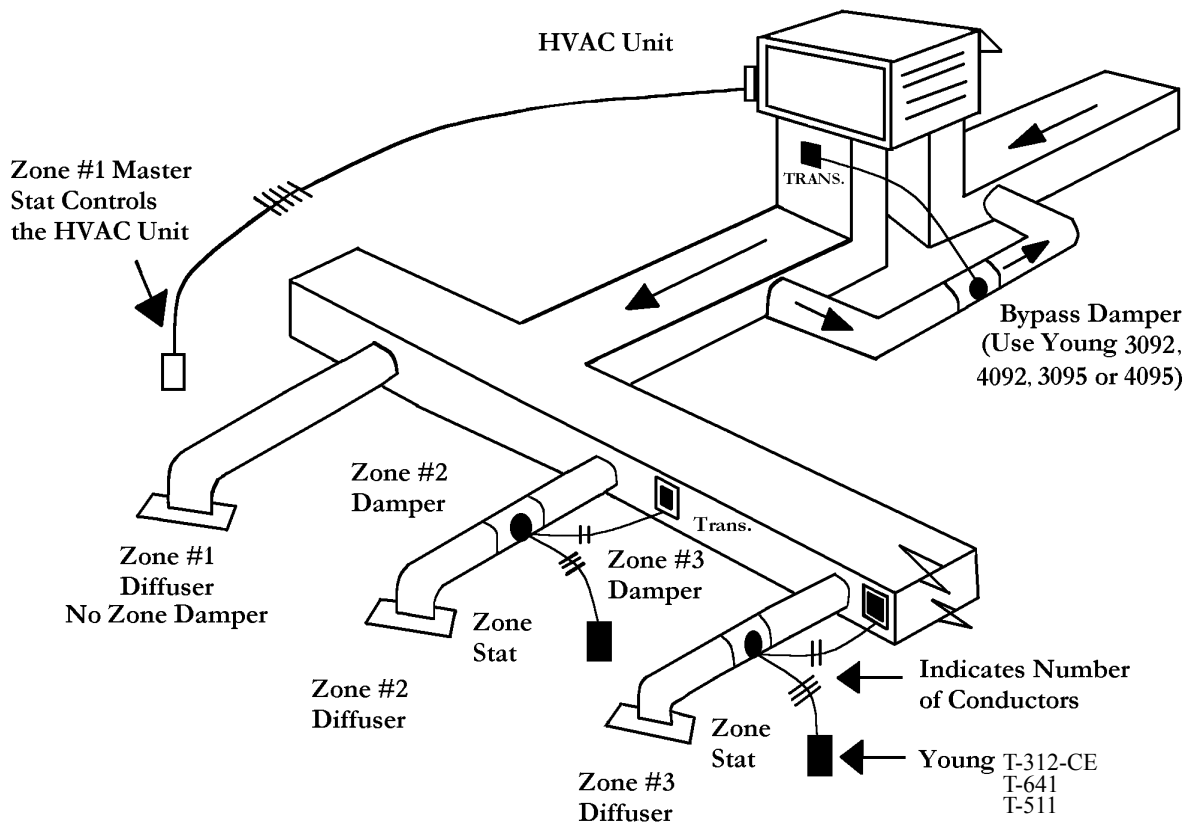
P: 440-232-9700 • F: 440-232-8266

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

Submit 2050 – 1-10

## Model 2050

*Rectangular Automatic Changeover  
Zone Damper - Power Open / Spring Close*



## Commercial Constant Volume HVAC Zone Control System

The contractor shall furnish and install a Young Regulator Zone 2000 Control System.

The system shall consist of as many Young Regulator #2010 round dampers or #2050 rectangular dampers and T-312-CE zone thermostats as may be required. The damper motors and thermostats shall be of the modulating type. The dampers must be capable of automatic heat/cool changeover. A Young Regulator #3092 or #4092 bypass damper is also available when required in order to maintain a constant system static pressure.

The zone damper assembly shall be equipped with:

- Adjustable minimum position setting.
- Factory mounted and wired control module with terminal connections.
- LED lights to indicate damper movement and position.
- Duct mounted changeover thermostat to change the damper mode of operation from heating to cooling or vice versa.

The HVAC unit shall be controlled by a separate programmable or non-programmable thermostat, either single or two stage to match the equipment. This thermostat, not supplied by Young Regulator, should be located in the zone with the highest heat gain/heat loss. The area or zone in which the equipment thermostat is located must not have a zone stat and damper serving it.