

## 3100 Rectangular and 4100 Round Outside Air Dampers

Indoor air quality (IAQ) has become a concern with building engineers, owners and tenants. Replacing stale indoor air with fresh outside air is known to improve IAQ.

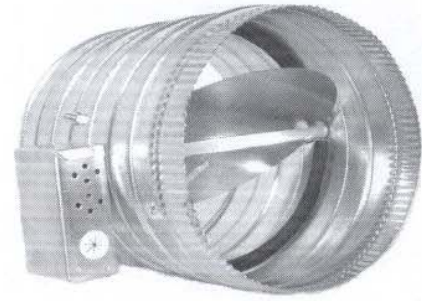
The Young Regulator 3100 rectangular and 4100 round Outside Air Dampers operate in conjunction with the equipment by powering open when the unit is on, providing fresh outside air. The damper springs closed when the equipment is off.

### FEATURES



**3100 RECTANGULAR**

- Heavy-duty extruded aluminum and stainless steel construction for long, corrosion-resistant life.
- Opposed blade damper distributes air evenly over face of grille while reducing noise in the system.
- Unique individual blade bushings for smoother and quieter operation.
- Mounting plate provided for slip-in installation in the side of the duct.



**4100 ROUND**

- Heavy-duty spiral shell with rolled-in stiffening beads for superior rigidity. Shell has one crimped and one straight end, with side mounted control box.
- New 20ga. "V" style damper blade is secured with steel shaft and oil impregnated bronze bearings requiring no lubrication.
- EPDM low leakage seals.
- Adjustable min. position stop.

### OPERATION

The 3100 and 4100 are designed to work with low-pressure systems less than 1" W.G. They are driven by synchronous type, 2-wire, 110V 10VA, 6watt motors with 35in. oz. torque. Damper operation is 2-position, power open/spring close. In the power-off condition, the damper is brought to the full-closed position in 5 seconds by the return spring. With power-on, the motor drives the blade open in 15 seconds.

### AVAILABLE SIZES

#### **RECTANGULAR**

6" x 6" through 24" x 14" Call the factory for larger sizes and tight shutoff models.

#### **ROUND**

4" diameter through 14" diameter. Damper length for 4" through 10" diameter is 12". Length for 12" diameter and larger is diameter.

### OPTIONS

- Auxiliary Micro Switch
- Low Leakage
- Damper 16" through 24" with Belimo Actuator
- 24 volt motor
- Medium Pressure Damper

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