



**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 4000RD – 1-10

**Model 4000RD**

*Round Motorized Exhaust Damper  
Energy Saving Exhaust Damper with Time Delay*

**Application and Design**

The 4000RD Ventgard damper is a round energy efficient exhaust damper. It generates substantial energy savings by minimizing the exhaust of conditioned air by rooftop ventilators from hotel, condo and high-rise bathrooms, kitchens and conference rooms when the room is unoccupied. It is installed in the duct behind the exhaust grille and is ideal for new construction or retrofits.

The damper is wired in-line with the light switch. In occupied rooms, (light switch on), the damper opens in approximately 30 seconds to permit the rooftop exhaust fan to exhaust stale, humid air. Once the light switch is turned off, the rooftop exhaust fan continues to exhaust stale, humid air for 15 minutes while the dampers slowly closes. In unoccupied rooms (light switch off), the damper is closed to minimize the rooftop exhaust fan from exhausting conditioned air. This reduces energy use and saves operating expenses.

For relief, a bypass loop of outdoor air can be installed. Optionally, a variable speed fan controlled by a pressure sensor can be used.



STANDARD CONSTRUCTION	
Shell	20 ga. Galvanized Steel
Blade	20 ga. Galvanized Steel
Shaft	1/2" Plated Steel
Seals	Optional EPDM
Bushing	Oil Impregnated Bronze
SIZE INFORMATION	
One End Straight, One End Crimped	
Diameter	4"-12"
Shell Length	8"
Motor Box	2.75"W x 7"H x 1.75"D

MOTOR	
UL listed in enclosure.	
Volts	120V
Watts	9
AMPS	See Above
Timing	Energized Damper Opens in 30 Sec. 15 min. to Fully Close
Torque	4 lb.

Minimum Air Is Adjustable

OPTIONS
Rectangular Dampers (Model 4000)

QUANTITY	DIAMETER	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER



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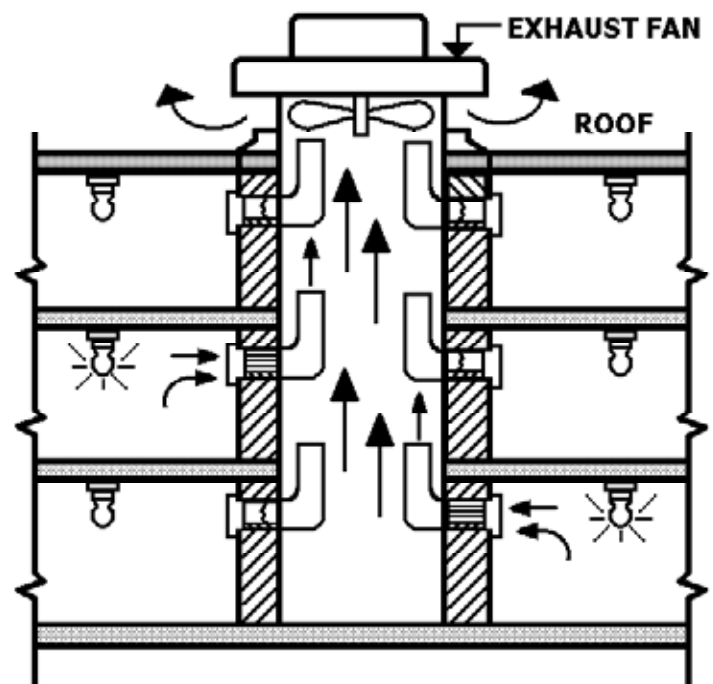
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In occupied rooms, the damper opens to permit the rooftop exhaust fan to exhaust stale air. The damper remains open for approximately fifteen minutes after the light switch is turned off.

In unoccupied rooms, the damper is closed to prevent the rooftop exhaust fan from exhausting conditioned air. This reduces energy use and saves operating expenses.

The rooftop exhaust fan no longer has to pull air from every room for 24 hours a day, 7 days a week. The fan can be downsized by as much as 20%. This will save on the initial fan cost and reflect significant savings with ongoing operating expenses.



**TYPICAL APPLICATION**