



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146
 P: 440-232-9700 • F: 440-232-8266
www.youngregulator.com

Submit 4000-CHI – 1-10

Model 4000-CHI

*Energy Saving Opposed Blade Damper
 In Sidewall Fitting with Time Delay*

Application and Design

The 4000 -CHI damper is an energy efficient exhaust damper installed inside a sidewall fitting. This fitting is flanged for a standard exhaust grille.

It generates substantial energy savings by reducing the exhaust of conditioned air by rooftop ventilators from hotel, condo and high-rise bathrooms, kitchens and conference rooms when the room is unoccupied.

The damper is wired in-line with the light switch. In occupied rooms, (light switch on), the damper opens to permit the rooftop exhaust fan to exhaust stale, humid air. The damper remains open for approximately fifteen minutes after the light switch is turned off. In unoccupied rooms (light switch off), the damper is closed to prevent 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	
Box	24 ga. Galvanized Aluminum
Shell	24 ga. Galvanized Aluminum
Slide	Stainless Steel
SIZE INFORMATION	
10" x 6" thru 16" x 8"	
ACTUATOR	
UL listed electro-thermal linear actuator in an aluminum enclosure. Accessible by removing the grille (by others). Up to 15-minute time delay to fully close.	
Volts	120V

Watts	9
AMPS	1 AMP On Startup, 80 MA Running
Timing	Energized Damper Opens in 30 Sec. 15 min. to Fully Close
Torque	4 lb.
Motor Enclosure	Aluminum
Built in Motor Stop for Minimum Air	
OPTIONS	
120V Motor with Time Delay	24V Motors without Time Delay
Round Outlet Collar	

QUANTITY	WIDE	HIGH	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER



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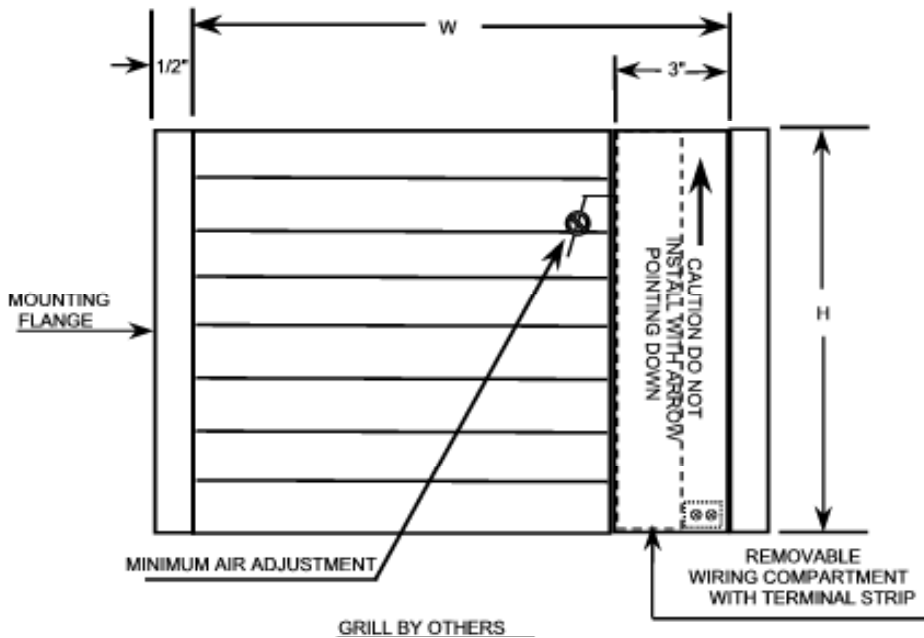
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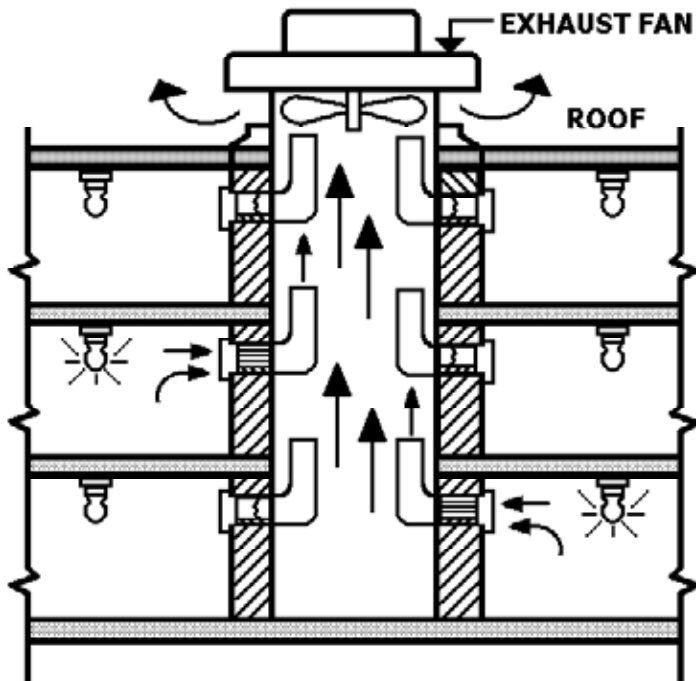
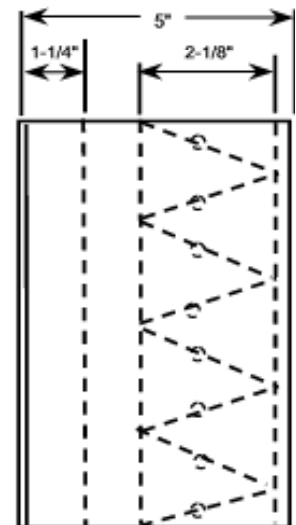
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FRONT VIEW



SIDE VIEW



TYPICAL APPLICATION

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.