

Application

The GM-30 series is a vertical mounted backdraft damper that is designed to allow horizontal airflow and prevent reverse airflow. The damper is opened by air pressure differential with assistance from fully adjustable counterbalance weights to minimize pressure loss. The damper is closed by gravity.

Ratings

Velocity

Up to 3,500 fpm (18 m/s)

Pressure

Up to 10 in. wg (2.5 kPa) differential pressure

Temperature

Up to 180°F (82°C)

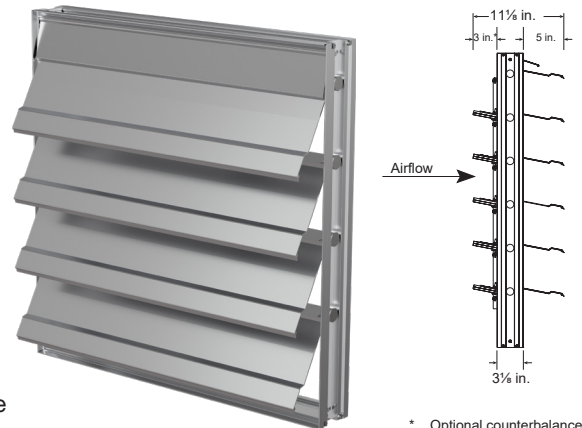
Construction

	Standard
Frame Material	Galvanized Steel
Frame Thickness	18 ga. (1.3 mm)
Blade Material	6063T5 Extruded Aluminum
Blade Thickness	.070 in. (1.8 mm)
Axle	½ in. (13 mm) nylon
Axle Linkage	⅝ in. (3 mm) plated steel
Bearings	Synthetic
Blade Seals	Vinyl

W x H	Minimum Size With Weights	Maximum Single Section Size	Maximum Multi Section Size
Inches	11 x 11	48 x 74	96 x 74
mm	279 x 279	1219 x 1880	2438 x 1880

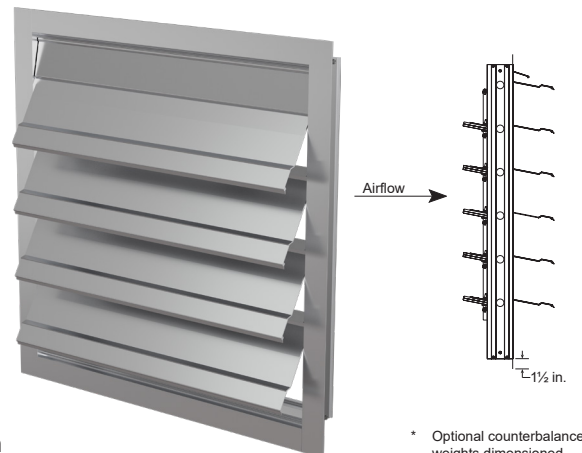
Counterbalance weights may require field adjustment. Instructions are available at www.greenheck.com.

GM-30
No Flange



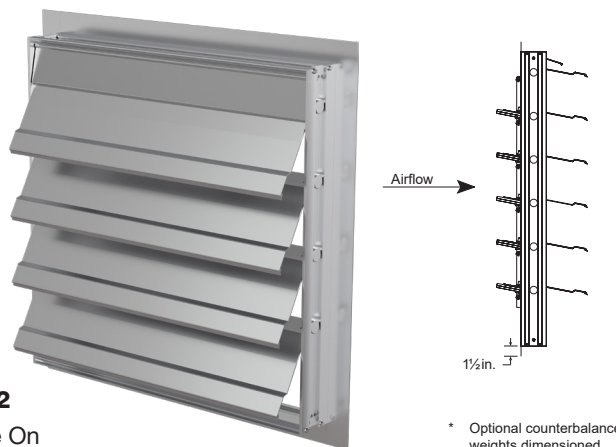
* Optional counterbalance weights dimensioned (¾ in. without weights)

GM-31
Flange On Discharge



* Optional counterbalance weights dimensioned (¾ in. without weights)

GM-32
Flange On Intake



* Optional counterbalance weights dimensioned (¾ in. without weights)

*W & H dimensions furnished approximately ⅛ in. (3 mm) under size.

Test Information

- Air leakage is based on operation between 32°F and 120°F (0°C and 48°C)
- Tests for air leakage were conducted in accordance with ANSI/AMCA Standard 500-D Figure 5.5, in the intake direction
- Air performance testing conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.5

Air Leakage

Model GM-30 series dampers with a width and height 24 in. (610 mm) or greater leak a maximum of:

- 8.9 cfm/ft² or less at 1.0 inches wg.

Model GM-30 series dampers with a width or height less than 24 in. (610 mm) leak a maximum of:

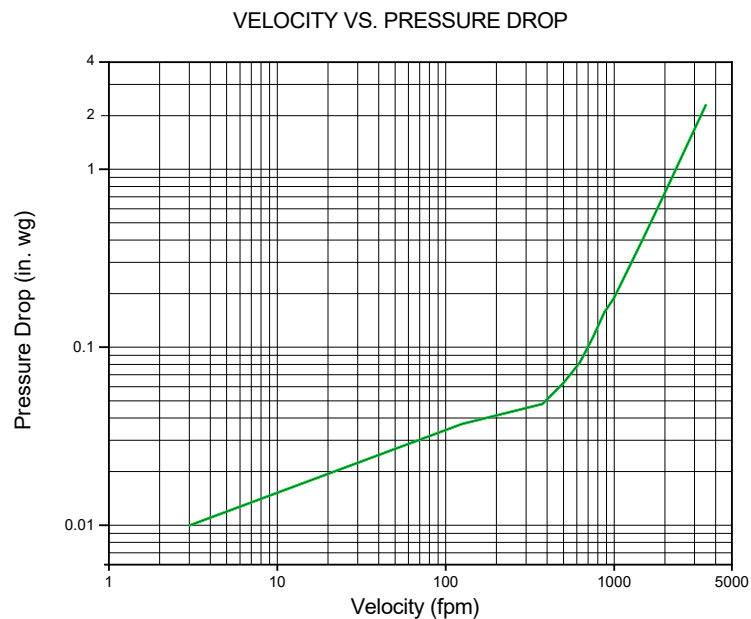
- 35 cfm/ft² or less at 1.0 inches wg.

Air Performance

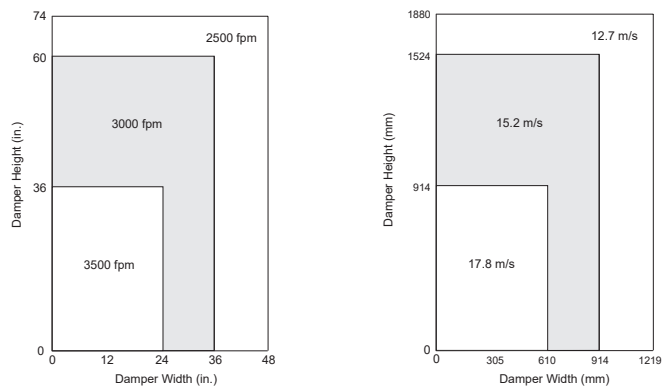
Performance data results from testing a 24 in. x 24 in. damper in accordance with AMCA Standard 500-D using Figure 5.5. All data has been corrected to represent standard air at 0.075 lb/ft³ (1.201 kg/m³).

Pressure Drop

24 in. x 24 in. Damper
(610 mm x 610 mm)



Velocity Limitations



Operational Data (AMCA Figure 5.3)	ΔP in. wg (Pa)	
	Without Weights	With Weights
Blades Start to Open	0.03 (7.5)	0.01 (2.5)
Blades Fully Open	0.25 (62)	0.055 (13.7)

Operational Data (AMCA Figure 5.5)	ΔP in. wg (Pa)	
	Without Weights	With Weights
Blades Start to Open	0.025 (6.2)	0.01 (3)
Blades Fully Open	0.32 (8)	0.08 (20)

Document Links



[INSTALLATION](#)



[CATALOG](#)



[SELECTION GUIDE](#)



[WARRANTY](#)