

Extruded BACKDRAFT DAMPER

ES-30 SERIES

Vertical Mount - Horizontal Airflow

Application and Design

The ES-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 and closed by gravity.

Ratings (See page 2 for specific limitations)

Pressure: 2.5 in. wg (622 Pa) - differential pressure.

Velocity: 2000 fpm (10.2 m/s)

Temperature: 180°F (82°C)

Standard Construction

Frame: 6063T5 extruded aluminum.

(0.063 in. [1.6mm] thickness)

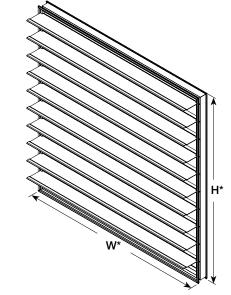
Blades: 6063T5 extruded aluminum.

(0.050 in. [1.3mm] thickness)

Axle Bearings: Synthetic polycarbonate sleeve type.

Linkage: 1/8 in. (3mm) aluminum.

Blade Seals: Vinyl.



*W & H dimensions furnished approximately 1/4 in. (6mm) under size.

Size Limitations

Minimum Size (without weights): 4 in.W x 4 in. H

(102mm x 102mm)

Minimum Size (with weights): 6 in. W x 8 in. H

(152mm x 203mm)

Maximum Size: 40 in. W x 52 in. H

(1016mm x 1321mm)

Options and Accessories

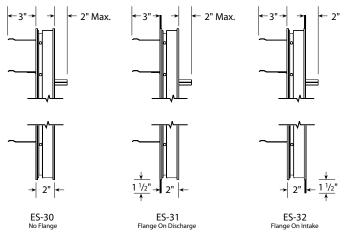
• 11/2 in. (38mm) Flange On Discharge: ES-31

• 11/2 in. (38mm) Flange On Intake: ES-32

Counterbalance Weights

• Pull Chain Actuator

Wing Nut Actuator



ES-30 ES-31
No Flange on Discharge

NOTE: Optional counterbalance weights shown.

ES-32 Flange on Intake

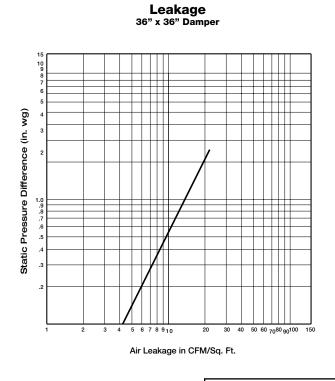
Note: Counterbalance weights may require field adjustment. Instructions are available at www.greenheck.com.

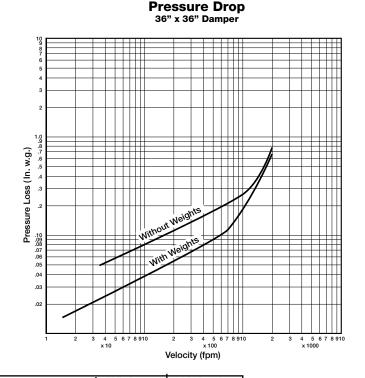
Leakage

Leakage testing was conducted in accordance with AMCA Standard 500-D and is expressed as CFM per sq. ft. of damper face area. All data has been corrected to represent standard air at 0.075 lb/ft³ (1.201 kg/m³).

Pressure Drop

Performance data results from testing a 36" x 36" damper in accordance with AMCA Standard 500-D using Figure 5.5 (no duct either side). All data has been corrected to represent standard air at 0.075 lb/ft³ (1.201 kg/m³).





Operational Data		ÆP in. wg	Velocity
		(Pa)	fpm (m/s)
Without Weights	Blades Start to Open	0.05 (12)	35 (.18)
	Blades Fully Open	0.27 (67)	1000 (5.1)
With Weights	Blades Start to Open	0.015 (3.7)	15 (.08)
	Blades Fully Open	0.13 (32)	600 (3.1)

Specifications

Backdraft dampers meeting the following specifications shall be furnished and installed where shown on plans and/ or as described in schedules. Dampers shall consist of: 6063T5 extruded aluminum channel frame (0.063 in. [1.6mm] thick) with 2 in. (51mm) depth; blades from 0.050 in. (1.3mm) 6063T5 extruded aluminum; synthetic polycarbonate axle bearings; damper shall be equipped with extruded vinyl blade seals; and internal ½ in. (3mm) aluminum linkage. Damper

manufacturer's printed application and performance data including pressure, velocity and temperature limitations shall be submitted for approval showing damper suitable for pressures to 2.5 in. wg (623 Pa), velocities to 2000 fpm (10.2m/s) and temperatures to 180°F (82°C). Testing and ratings to be in accordance with AMCA Standard 500-D.

Basis of design is Greenheck model ES-30.



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