GREENHECK
DAMPERS AND LOUVERS

VINYL BACKDRAFT DAMPER

PS-32 SERIES
Vertical Mount - Horizontal Airflow
Horizontal Mount - Vertical Airflow Up

Application and Design

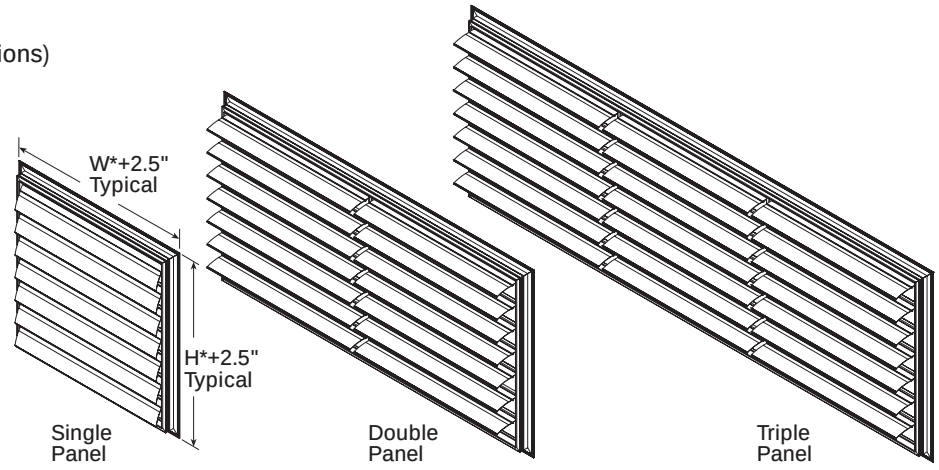
The PS-32 Series dampers are constructed of UV-stabilized PVC plastic for many years of corrosion resistance and quiet operation. The dampers are designed to prevent reverse airflow in vertical and horizontal exhaust applications. Featuring a pressure sensitive blade design, the PS-32 series open and remain open under low velocity conditions. The dampers are opened by air pressure differential and closed by gravity. Optional motor pack converts the dampers to motorized operation.

Ratings (See page 2 for specific limitations)

Back Pressure: 1.0 in. wg (PS-32 & PS-32T)
2.0 in. wg (PS-32R & PS-32TA)

Velocity: 1000 fpm (PS-32 & PS-32TA)
2500 fpm (PS-32R & PS-32TA)

Temperature: 165°F.



* W & H dimensions furnished approximately ⅛" under size. Dimensioning shown is from outside of flange to outside of flange.

Standard Construction

Frame: 0.100" PVC

Blades: 0.050" PVC

Axles: PS-32 : Acetal Pin
PS-32T : Acetal Pin
PS-32TA : Full Length Fiberglass Rod
PS-32R : Full Length Fiberglass Rod

Linkage: ABS & PVC.

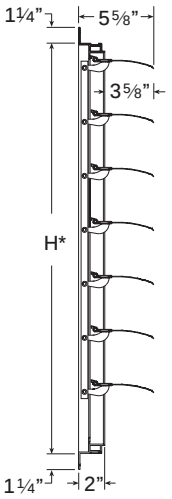
Size Limitations (see page 2 for specific limitations)

Minimum Panel Size
10" W x 10" H

Maximum Panel Size
Single Panel: 32" W x 74" H
Double Panel: 64" W x 74" H
Triple Panel: 74" W x 74" H

Options and Accessories (at additional cost)

- Motor Packs (24V, 115V, 220V, 440V)
  (Only available on Model PS-32TA; see page 3)



PS-32
Flange On Intake

Models Available

PS-32: No tie bar.
Acetal pin axles.

PS-32T: With tie bar.
Acetal pin axles.

PS-32R: No tie bar.
Full length fiberglass rod blade reinforcement.

PS-32TA: With tie bar.
Full length fiberglass rod blade reinforcement.

Quantity	Model	Size		
		W Width	H Height	

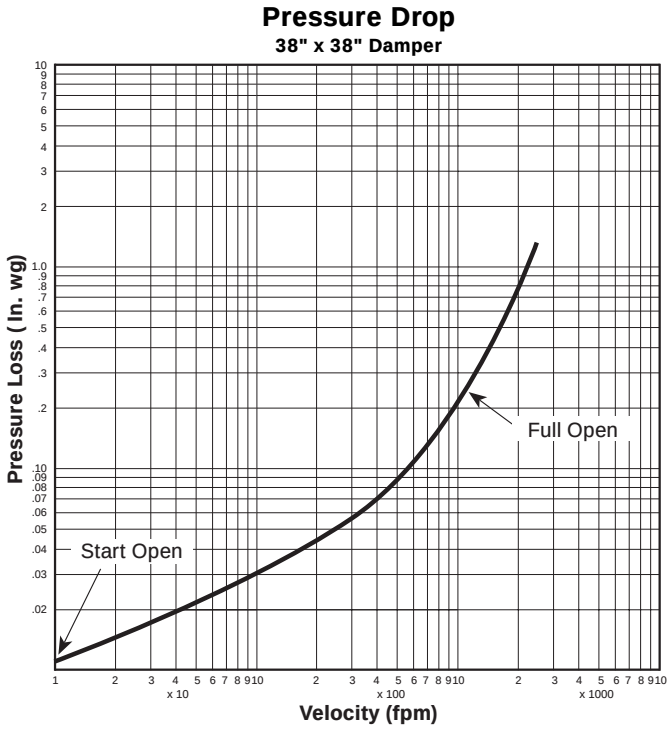
Project Location

Contractor Design Specifier

Pressure Drop

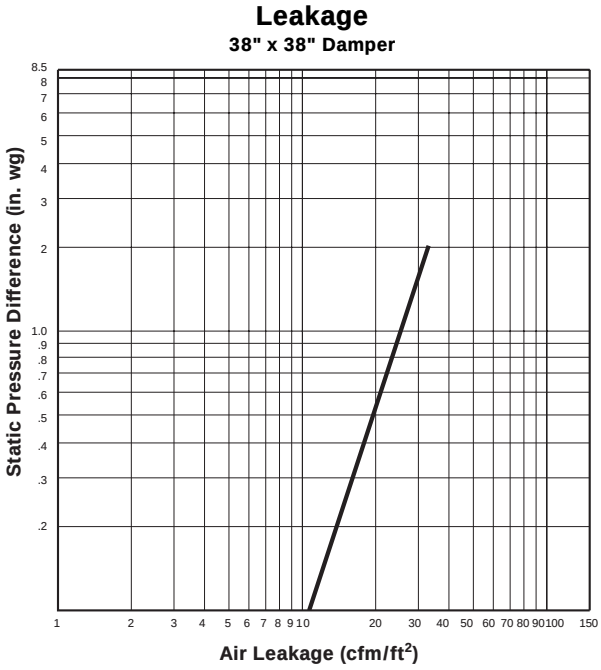
Performance data results from testing a 38" x 38" damper in accordance with AMCA Standard 500 using Figure 5.5. All data has been corrected to represent standard air at 0.075 lb/ft^3.

Operational Data		ΔP in. w.g.	Velocity fpm
Blades Start Open	non-ducted	0.011	10
Blades Fully Open	non-ducted	0.25	1100



Leakage

Leakage testing was conducted in accordance with AMCA Standard 500 and is expressed as cfm/ft^2 of damper face area. All data has been corrected to represent standard air at 0.075 lb/ft^3.



PS-32 Series Motor Packs

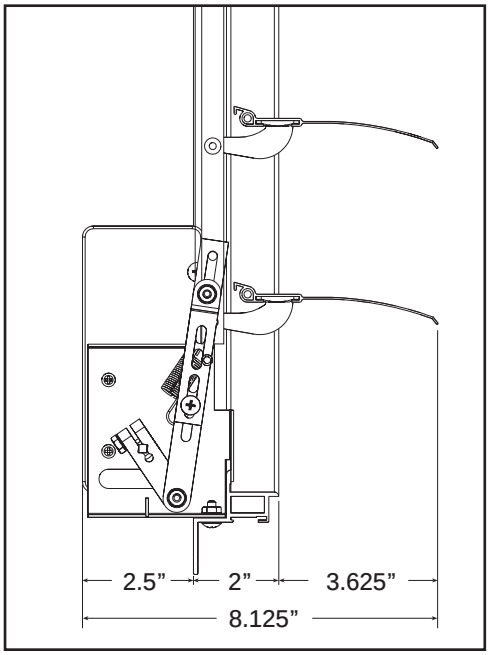
PS-32 Series motor packs may be field installed to convert the PS-32TA backdraft damper to motorized operation. These versatile motor packs feature power opening with spring return. The springs also provide damper closure in the event of electrical failure.

The PS-32 Series motor packs are available in voltages of 24, 115, 220 and 440. 575/600 volts may be used with any of the motor packs by way of a transformer (Greenheck Part #380711) and the 115 volt motor pack. The PS-32 Series motor packs are U.L. Listed. ***Please specify voltage when ordering.***

PS-32 Series motor packs are supplied with assembly instructions and **stainless steel** mounting bracket and hardware.

Motor Packs 1-Ø, 60 Hz	**PS-24**	**PS-115**	**PS-220**	**PS-440**
Voltages	**24**	**115**	**220**	**440**
Speed (RPM)	1.8	1.8	1.8	1.8
Running Amps	1.4	0.22	0.12	0.065
Stall Amps	1.6	0.24	0.14	0.075
Identification #	2651	UL-2-2469	UL-3-2495	UL-4-2576

Motor Pack Dimensional Data

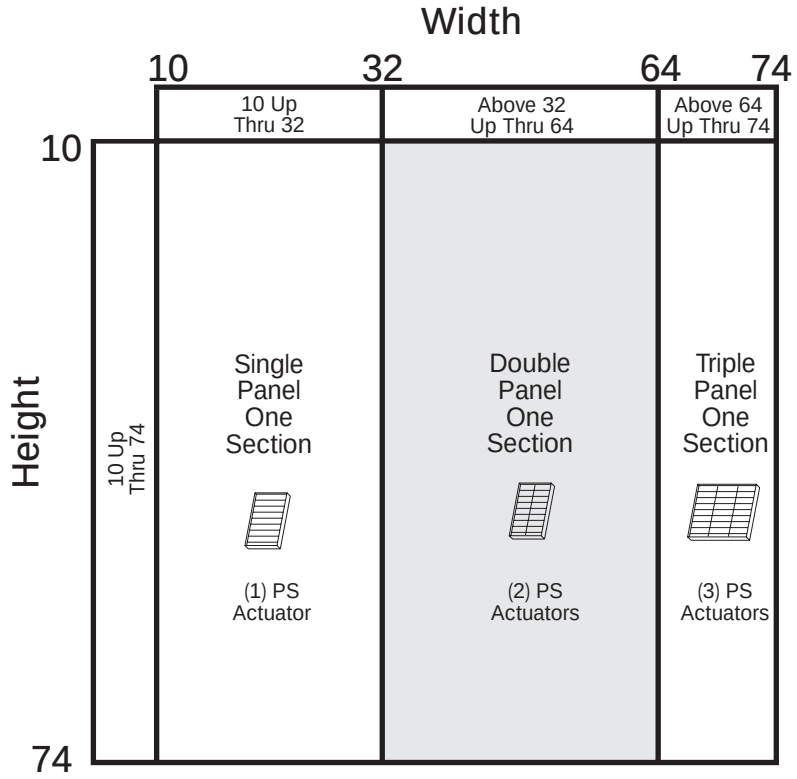


PS-32TA damper with optional motor pack

PS-32TA dampers are available with an optional motor pack (PS-24, PS-115, PS-220, and PS-440). The diagram above illustrates the required clearance needed for proper operation of a mounted motor pack.

PS-32 SERIES SELECTION SPECIFICATIONS

- PS-32 Series dampers are supplied as shown in the table below. PS-32 dampers are available up to a maximum overall size of 74”x74”.
- Please note that the width dimension is **always** taken as being parallel to the length of the blades.
- **Note:** The type of motor packs available can be found on page 3.



Specifications

Backdraft dampers meeting the following specifications shall be furnished and installed where shown on plans and/or as described in schedules. Dampers shall be constructed of all non-ferrous components. Dampers shall consist of: 0.100” thick PVC frame with 2" depth; 0.050” thick flexible PVC blades; and acetal axle pins. Frame corners shall be fused for rigidity and durability. 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 2.0" w.g., velocities to 2500 fpm and temperatures to 165°F. Testing and ratings to be in accordance with AMCA Standard 500. Basis of design is Greenheck model PS-32.

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