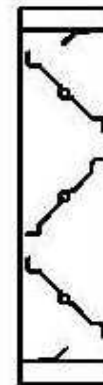


MODEL 4750: 1/2" (13) DIA. AXLES
MODEL 4775: 3/4" (19) DIA. AXLES



PARALLEL
BLADE



OPPOSED
BLADE

STANDARD CONSTRUCTION

FRAME: 8" x 2" x 14 ga. (203 x 51 x 2) coated steel channel.

BLADES: 16 ga. (1.6) galvanized steel, triple-vee design, approx. 6" (152) to 8" (203) wide depending on size. Parallel or opposed operation.

LINKAGE: Side linkage, concealed out of airstream. Heavy duty plated steel tie bars and galvanized steel clevis arms.

AXLES: **Model 4750:** 1/2" (13) diameter plated steel.
Model 4775: 3/4" (19) diameter plated steel.

BEARINGS: Stainless steel sleeve type, pressed in frame.

DRIVESHAFT: 1/2" (13) or 3/4" (19) diameter (see AXLES above) plated steel. Extends to 8" (203) beyond frame.

FINISH: Mill galvanized.

MINIMUM SIZE: Single blade: 6" x 6" (152 x 152).
Two blades: 6" x 12" (152 x 305).

MAXIMUM SIZE: 48" x 96" (1219 x 2438). Contact factory for larger sizes.

OPTIONAL CONSTRUCTION

- Type 304 Stainless Steel construction
- Type 316 Stainless Steel construction
- 12 ga. (2.8) Frame 14 ga. (2.0) Blades
- Type 304 Stainless Steel Axles only
- External Bolt-On Ball Bearings
- External Bolt-On Ball Bearings with Seal
- Outboard Bearings with Adjustable Shaft Seal
- EPDM Blade Seals (Max. 250°F [121°C])
- Silicone Blade Seals (Max. 400°F [204°C])
- Stainless Steel Jamb Seals
- Non-standard Flanges: 1 1/2" (38) to 4" (102). Specify _____.
- Bolt Holes in One Flange Bolt Holes in Both Flanges
- Heavy Duty Manual Locking Quadrant
- Factory Supplied Actuator. Specify _____.

For special variations or options not shown, contact factory.

PERFORMANCE LIMITATIONS:

| Damper Width | Model 4750 (1/2" Dia. Axles) | | Model 4775 (3/4" Dia. Axles) | |
|--------------|------------------------------|----------------------|------------------------------|----------------------|
| | Max. System Pressure | Max. System Velocity | Max. System Pressure | Max. System Velocity |
| 12" (305) | 8.5" w.g. | 3000 fpm | 20" w.g. | 3500 fpm |
| 24" (610) | 6.0" w.g. | 3000 fpm | 15" w.g. | 3500 fpm |
| 36" (914) | 3.8" w.g. | 3000 fpm | 9" w.g. | 3500 fpm |
| 48" (1219) | 2.5" w.g. | 3000 fpm | 6.5" w.g. | 3500 fpm |

Standard construction maximum temperature is 250°F (121°C). Contact factory for higher temperatures.

Pressure and velocity limitations shown above are conservative guidelines based on maximum blade deflection of L/360. Contact factory for applications above limitations shown in chart.

LEAKAGE:

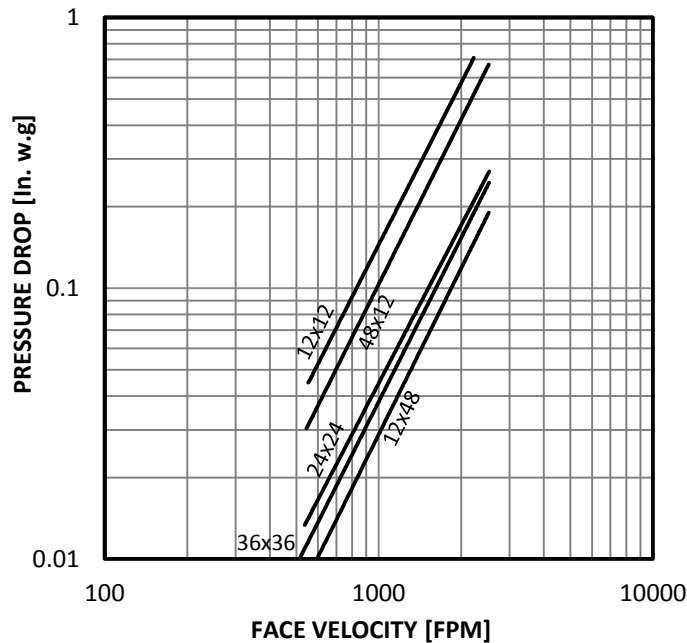
| Damper Width | Model 4750 | | | | Model 4775 | | | |
|--------------|---------------------|-------------|---------------------|-------------|---------------------|-------------|---------------------|-------------|
| | Leakage w/o Seals | | Leakage with Seals | | Leakage w/o Seals | | Leakage with Seals | |
| | CFM/Ft ² | % Max. Flow | CFM/Ft ² | % Max. Flow | CFM/Ft ² | % Max. Flow | CFM/Ft ² | % Max. Flow |
| 12" (305) | 59 | 1.93 | 13 | 0.43 | 59 | 1.68 | 13 | 0.37 |
| 24" (610) | 39.5 | 1.31 | 8.5 | 0.28 | 39.5 | 1.13 | 8.5 | 0.24 |
| 36" (914) | 32 | 1.06 | 4.2 | 0.14 | 32 | 0.91 | 4.2 | 0.12 |
| 48" (1219) | 32 | 1.06 | 4.2 | 0.14 | 32 | 0.91 | 4.2 | 0.12 |

Leakage information is based on a static pressure differential of 1" w.g., tested per AMCA Standard 500-D, Figure 5.5. To calculate leakage at pressure differentials higher than 1" w.g., multiply leakage from above chart by the correction factor shown in the chart below. Data has been corrected to standard air density at .075 lb/ft³ (1.2 kg/m³). Data based on operation between 0°C - 49°C (32°F - 120°F).

LEAKAGE CORRECTION FACTORS:

| Static Pressure (in. w.g.) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Correction Factor | 1.4 | 1.7 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.7 | 3.9 | 4.0 | 4.1 | 4.2 | 4.4 | 4.5 |

PRESSURE DROP:



Pressure drop tested in accordance with AMCA Standard 500-D, Figure 5.2, ducted on upstream side only.

| REF. # | QTY. | MODEL | PB/OB | WIDTH I.D. (EXACT SIZE) | HEIGHT I.D. (EXACT SIZE) | OPTIONS/ACCESSORIES |
|-------------|------|-------|-------|-------------------------|--------------------------|---------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| PROJECT : | | | | | ENGINEER: | |
| CONTRACTOR: | | | | | DATE: | |