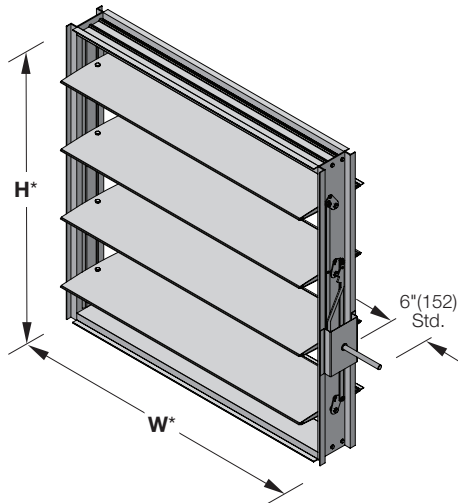




AC-58

(standard)

*Damper dimensions furnished approximately 1/4" (6) undersize. (Drive axle supplied loose for field installation)

Options

■ Factory-installed actuators:

- Manual locking quadrant (supplied loose)
- 24 VAC ■ 120 VAC ■ 230 VAC
 - Pneumatic ■ Modulating
- External mount (requires sleeve or sideplate option)
- Internal mount (requires jackshafting)

■ Factory-installed sleeve ■ Factory-installed side plate

- Gauge: ■ 20 (1.0) ■ 16 (1.6)
Length: ■ 16" (406) ■ 24" (610) ■ Other _____

■ Transitions (sleeve required):

- Flanged ■ Round ■ Oval
- Duct connections: ■ DM-25 ■ DM-35 ■ S & Drive

■ Actuator/Quadrant standoff bracket — for insulated duct:

- 2" (50) ■ 3" (76)

■ Stainless steel oilite sleeve-type bearings

- 304 ■ 316

■ Jackshafting (required with internal mounted actuators and standard on all multiple section dampers)

■ Vertical mounted blades

■ Finish:

- Mill ■ Clear Anodized ■ Baked enamel - Gray
- High performance fluoropolymer - Gray

■ Stainless steel linkage:

- 304 ■ 316

■ High temperature damper construction (275°F)

AC-57 and AC-58 control dampers employ fully symmetrical aluminum airfoil blades and a rugged aluminum hat channel frame to provide extremely low leakage and exceptional air performance in medium to high pressure and velocity applications.

Ratings

Damper Width	Maximum System Pressure	Maximum System Velocity
12" (305)	10.0 in. wg. (2.5 kPa)	6,000 fpm (30.5 m/s)
24" (610)	8.4 in. wg. (2.1 kPa)	5,000 fpm (15.2 m/s)
36" (914)	6.1 in. wg. (1.5 kPa)	4,000 fpm (20.3 m/s)
60" (1524)	4.0 in. wg. (1.0 kPa)	3,500 fpm (17.8 m/s)

Leakage Ratings

Maximum Damper Width	*Leakage Class		
	@ 1 in.wg. (0.25 kPa)	@ 4 in.wg. (1.0 kPa)	@ 8 in.wg. (2.0 kPa)
48" (1219)	1A	1	1

*Leakage Class Definitions:

Leakage Class 1A - 3 cfm/ft² @ 1 in. wg. (0.015 m³/s/ m² @ 0.25 kPa)

Leakage Class 1 - 4 cfm/ft² @ 1 in. wg. (0.020 m³/s/ m² @ 0.25 kPa)

Leakage Class 1 - 8 cfm/ft² @ 4 in. wg. (0.041 m³/s/ m² @ 1.0 kPa)

Leakage Class 1 - 11.3 cfm/ft² @ 8 in. wg. (0.057 m³/s/ m² @ 2.0 kPa)

Test Information - Data are based on upon a torque of 8.0 in-lb/ft² (0.90 N-m) applied to close and seat the damper during the test. Test Method per ANSI/AMCA Standard 500-D-07 (Leakage), Figure 5.4 Alternate.

Temperature: -25°F to 180°F (-32°C to 83°C) with synthetic bearings
-72°F to 275°F (-58°C to 135°C) with stainless bearings

Standard Construction

Frame: 5" x 1" (127 x 25) 6063-T5 aluminum hat channel 0.125" (3) thick. Low profile head and sill are used on sizes less than 13" (330) high

Blades: 6063-T5 0.070" (1.8) thick heavy duty, dual wall extruded aluminum airfoil. Parallel (AC-57) or opposed (AC-58) action

Axles: 1/2" (13) diameter plated steel hex

Linkage: Concealed in frame

Bearings: Synthetic

Seals: PVC blade edge seals and flexible metal jamb seals

Control Shaft: 1/2" x 6" (13 x 152) round drive axle with outboard shaft support bracket and bearing supplied on all single section dampers for field installation. Factory installed 3/4" (19) diameter jackshaft on all multiple section dampers.

Minimum Size: AC-57 (one blade): 6" x 5" (152 x 127)
AC-58 (two blades): 6" x 9" (152 x 229)

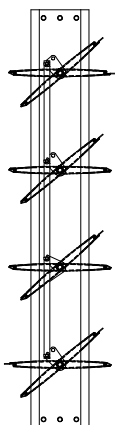
Maximum Size: Single section: 60" x 74" (1524 x 1880)
Multiple sections: Unlimited

NOTE: Dimensions in parentheses () are millimeters.
Information is subject to change without notice or obligation.

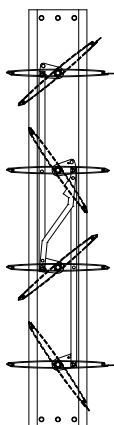
Typical Damper Dimensional Details

AC-57, AC-58

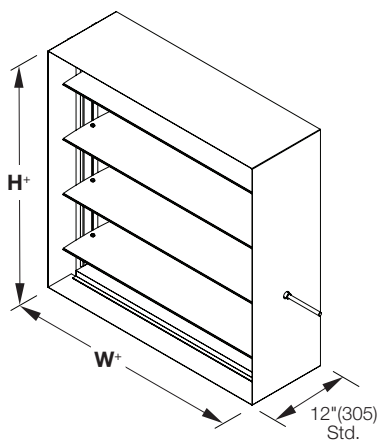
Control Damper
Aluminum Airfoil Blade



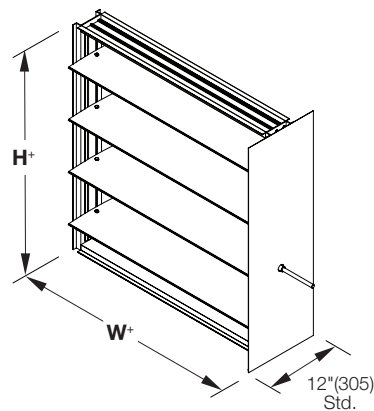
AC-57
(Parallel Action)



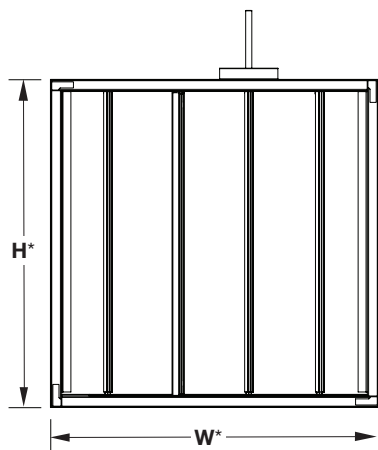
AC-58
(Opposed Action)



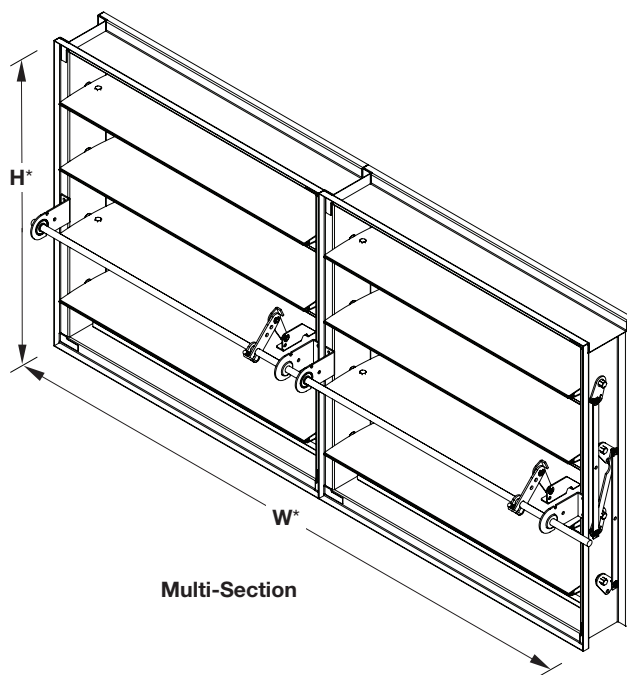
Sleeve (Optional)
*Damper dimensions furnished approximately
1/4" (6) undersize. (sleeve thickness not included)



Sideplate (Optional)



Vertical Bladed



Multi-Section

Airflow Performance Data

Pressure Loss vs. Velocity

Figure 5.3 — Ducted Inlet and Outlet

