

# PLASTEC POLYPROPYLENE BLOWERS

The PLASTEC series polypropylene blowers are designed to work in highly corrosive air applications such as laboratory exhaust or the chemical industry. Housings are constructed of strong, high-density UV treated polypropylene for maximum corrosion resistance. Housings are made of a single piece to avoid leaks. Housings are reversible and rotatable to any of the 8 standard discharge positions.



## FEATURES

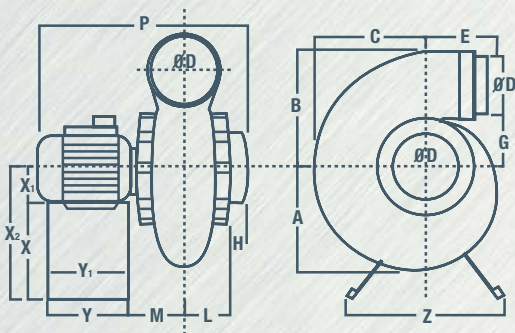
- Housings constructed of strong, high density UV treated polypropylene for maximum corrosion resistance.
- One piece housing to avoid leakage.
- Housing is reversible and rotatable to any of the 8 standard discharge positions.
- Wheels are both electronically and dynamically balanced.
- Direct drive, heavy duty ball bearing motors for continuous duty.
- Totally enclosed, fan cooled motors (TEFC) or high efficient explosion proof motors.



MODEL #	INLET/OUTLET SIZE (OD) INCHES	RPM	H.P.	CFM										
				0"	1/4"	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	5"		
<b>TEFC</b>														
MODEL	15	P15T10025C	P15T30025C-*	4.92/4.92	1150	1/4	200	50	-	-	-	-	-	-
		P15T10033B	P15T30033B-*	4.92/4.92	1725	1/3	300	250	150	-	-	-	-	-
		P15T10050A	P15T30050A-*	4.92/4.92	3450	1/2	600	575	550	525	500	400	300	150
	20	P20T10025C	P20T30025C-*	6.30/6.62	1150	1/5	600	500	300	100	-	-	-	-
		P20T10033B	P20T30033B-*	6.30/6.62	1725	1/3	900	850	775	700	500	100	-	-
		P20T10150A	P20T30150A-*	6.30/6.62	3450	1 1/2	1800	1700	1600	1500	1400	1300	1200	1100
	25	P25T10033C	P25T30033C-*	7.82/8.62	1150	1/3	1100	1000	900	600	-	-	-	-
		P25T10075B	P25T30075B-*	7.82/8.62	1725	3/4	1700	1600	1500	1400	1300	1100	400	-
		P25T10300A	P25T30300A-*	7.82/8.62	3450	3								2300
	30	P30T10075C	P30R30075C-*	9.84/10.75	1150	3/4	2250	2100	2000	1750	1500	1000	-	-
		P30T10200B	P30T30200B-*	9.84/10.75	1725	2	3500	3400	3250	3150	3000	2750	2500	2000
	35	-	P35T30200D	208-230/460 VOLT ONLY	12.75/12.75	850	2	3420	3250	3000	2750	2500	2000	-
-		P35T30500C	208-230/460 VOLT ONLY	12.75/12.75	1150	5	5000	4750	4500	4250	4000	3500	3000	2500
<b>EXPLOSION PROOF</b>														
15	P15X10033B	P15X30033B-*	4.92/4.92	1725	1/3	300	250	150	-	-	-	-	-	
	P15X10050A	P15X30050A-*	4.92/4.92	3450	1/2	600	575	550	525	500	400	300	150	
20	P20X10033B	P20X30033B-*	6.30/6.62	1725	1/3	900	850	775	700	500	100	-	-	
	P20X10150A	P20X30150A-*	6.30/6.62	3450	1 1/2	1800	1700	1600	1500	1400	1300	1200	1100	
25	P25X10075B	P25X30075B-*	7.82/8.62	1725	3/4	1700	1600	1500	1400	1300	1100	400	-	
	-	P25X30300A-*	7.82/8.62	3450	3								2300	
30	P30X10075C	P30X30075C-*	9.84/10.75	1150	3/4	2250	2100	2000	1750	1500	1000	-	-	
	P30X10200B	P30X30200B-*	12.75/12.75	850	2	3420	3250	3000	2750	2500	2000	-	-	

\* For three phase motors, substitute "\*" with "M" for 208-230/460V, or with "P" for 575V (except on P35 models which are only available in 208-230/460V)

## DIMENSIONS



DIMENSION	MODEL	RPMs		
		1150	1725	3450
X1	P15	2 13/16"	2 13/16"	2 13/16"
X2		12 1/4"	12 1/4"	12 1/4"
X1	P20	2 13/16"	2 13/16"	3 1/8"
X2		12 1/4"	12 1/4"	12 5/8"
X1	P25	2 13/16"	3 1/8"	3 9/16"
X2		12 1/4"	12 5/8"	15 3/8"
P		18 7/8"	20 1/2"	22 13/16"
X1	P30	3 1/8"	3 9/16"	22 7/16"
X2		17 11/16"	18 1/8"	-
P		22 7/16"	23 5/8"	-
X1	P35	4.41"	4.41"	-
X2		22.83"	22.83"	-
P		28.50"	28.5	-



MODEL	A	B	C	D	E	G	H	L	M	P	Y	Y1	Z	X
P15	6 1/16"	9 7/8"	8"	4 7/8"	5 11/16"	4 3/4"	1 1/5"	2 3/4"	3 1/8"	14 1/4"	7 1/16"	6 5/16"	13 3/8"	9 7/16"
P20	8 3/16"	12 1/16"	9 7/16"	6 5/8"	6 3/16"	5 1/2"	1 1/3"	3 3/8"	3 11/16"	15 1/3"	7 1/16"	6 5/16"	13 3/8"	9 7/16"
P25	9 3/4"	14 3/4"	12 3/16"	8 5/8"	6 5/8"	6 1/8"	1 1/3"	3 3/4"	4 1/8"	-	7 1/16"	6 5/16"	16 1/2"	-
P30	11 3/16"	18 3/16"	14 11/16"	10 3/4"	7"	7 5/16"	1 1/3"	4 5/16"	4 3/4"	-	9 7/16"	8 11/16"	18 1/8"	-
P35	14.57"	22.44"	17.72"	12.75"	5.12"	10.04"	2.36"	5.91"	6.69"	28.50"	13.78"	12.36"	23.62"	18.43"

## ACCESSORIES

- Weather hood enclosed pedestal for weather protection
- Roof curbs
- Motor supports
- Roof unit kit
- Dampers



Plastec products are special non-stock items and are non-returnable and cannot be cancelled.

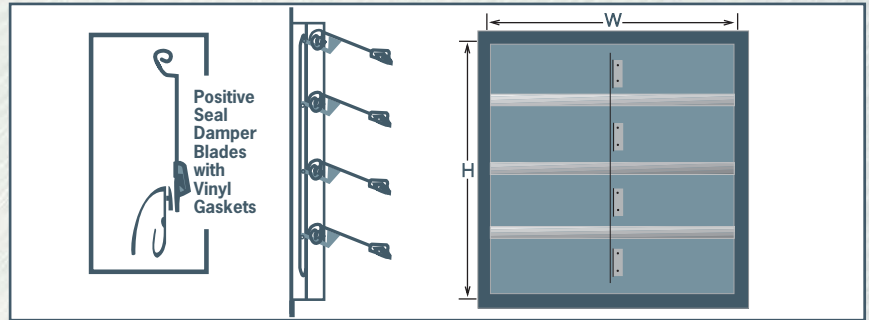


# BACKDRAFT DAMPERS

## BLADE OPTION:

SR: 0.016" - 0.020" roll formed aluminum with vinyl gasket - used with fan motors under 1 HP

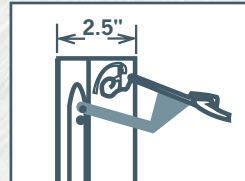
SE: 0.05" extruded aluminum with vinyl gasket - used with fan motors over 1 HP



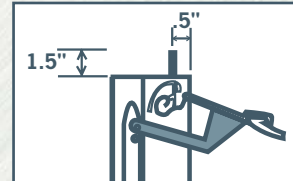
## MODEL 3000, 3100, 3200

### FEATURES

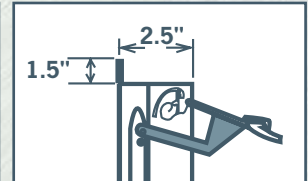
- Sturdily constructed from all aluminum extrusions.
- Roll form blades or extruded aluminum blades.
- Available in any combination of width and height.
- Less than 1% leakage.



**SERIES 3000**  
SIDE MOUNT - NO FLANGE

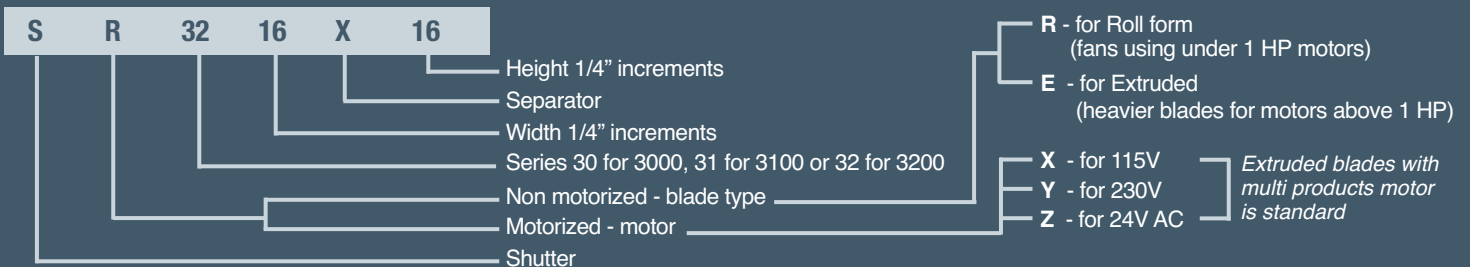


**SERIES 3100**  
INWARD MOUNT



**SERIES 3200**  
OUTWARD MOUNT

## ORDERING METHOD FOR BACKDRAFT & MOTORIZED BACKDRAFT DAMPERS

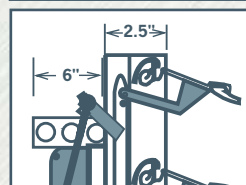
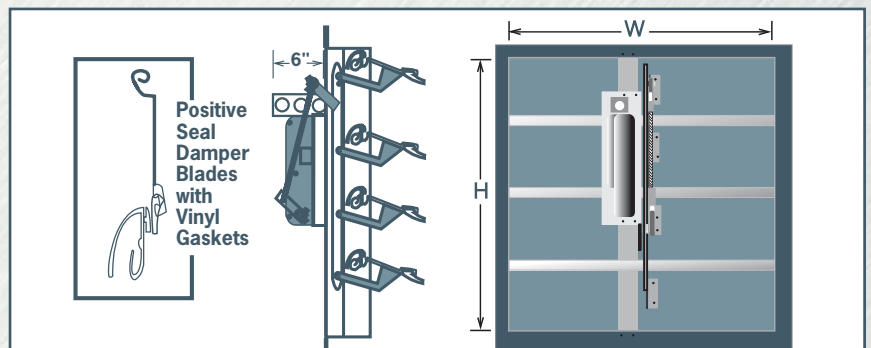


# MOTORIZED BACKDRAFT DAMPERS

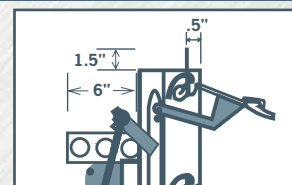
## MODEL 3000M, 3100M, 3200M

### FEATURES

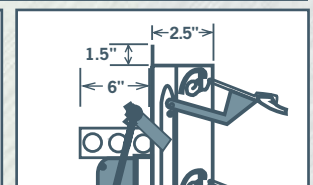
- Sturdily constructed from all aluminum extrusions
- Damper motor factory installed (24V, 115V or 230V - must specify at time of order)
- Maximum 8 sq. feet per motor
- Positive seal keeps leakage less than 1%
- Blades are 0.5" extruded aluminum with vinyl gasket
- Double panel available 30" and up
- Standard multi products motor



**SERIES 3000M**  
SIDE MOUNT - NO FLANGE



**SERIES 3100M**  
INWARD MOUNT



**SERIES 3200M**  
OUTWARD MOUNT

See page 55 for Multi-Products replacement motors.



- Bird screen
- Insect screen
- Special coatings
- End switch



Non-standard shutters are non-returnable and cannot be cancelled.

# FIXED LOUVRES MODEL - EAL-2, EAL-2F

Normally used as an exhaust louvre where the total CFM is relatively low.

Models EAL-2 and EAL-2F are 2" deep louvres with blades set at a 30° angle. Their slim design may be used in curtain wall, interior or exterior partitions and window walls. All louvres are furnished with 1/2" x 1/2" regalvanized wire birdscreen.

## FEATURES

- **MATERIAL:** .081" (2.06 mm) thick, 6063-T5 alloy, extruded aluminum
- **BLADE DESIGN:** set at 30° spaced 2" (50 mm) on centres with storm proof performance
- **CONSTRUCTION:** blade assembly is designed to prevent bowing and distortions. All corners are mitered to provide a neat, uniform extrusion profile at the perimeter.
- **SCREENS:** 1/2" x 1/2" regalvanized, 19 gauge wire
- **FINISHES:** mill is standard finish, anodized or baked enamel available at additional cost.
- **SIZES:** per customer specification multiple sections may be required. Consult factory. Minimum size available: 6" x 6".

## ORDERING METHOD

- No flange: EL2-W x H eg) EL2-16x16
- With flange: EL2F-W x H eg) EL2F-16x16



Non-standard shutters are non-returnable and cannot be cancelled.



# FIXED LOUVRES MODEL - EAL-4, EAL-4F

Design provides high free area and can exhaust a high volume of air with little static pressure.

Models EAL-4 and EAL-4F are 4" deep louvres with blades set at a 30° angle, ensuring positive drainage which prevents discoloration of building walls. All louvres are furnished with 1/2" x 1/2" regalvanized wire birdscreen.

## FEATURES

- **MATERIAL:** .081" (2.06 mm) thick, 6063-T5 alloy, extruded aluminum
- **BLADE DESIGN:** set at 35° spaced 4" (100 mm) on centres with storm proof performance
- **CONSTRUCTION:** blade assembly is designed to prevent bowing and distortions. All corners are mitered to provide a neat, uniform extrusion profile at the perimeter.
- **SCREENS:** 1/2" x 1/2" regalvanized, 19 gauge wire
- **FINISHES:** mill is standard finish, anodized or baked enamel available at additional cost.
- **SIZES:** per customer specification multiple sections may be required. Consult factory. Minimum size available: 6" x 12".

## ORDERING METHOD

- No flange: EL4-W x H eg) EL4-24x24
- With flange: EL4F-W x H eg) EL4F-24x24



Non-standard shutters are non-returnable and cannot be cancelled.





## FIXED LOUVRES MODEL - EAL-6, EAL-6F

**Design provides protection from water penetration while retaining high free area.**

Models EAL-6 and EAL-6F are 6" deep louvres with blades set at a 45° angle. Their slim design may be used in curtain wall, interior or exterior partitions and window walls. The design provides protection from water penetration while retaining high free area. All louvres are furnished with 1/2" x 1/2" regalvanized wire birdscreen.

### FEATURES

- **MATERIAL:** .085" (2.16 mm) thick, 6063-T5 alloy, extruded aluminum
- **BLADE DESIGN:** set at 45° spaced 7 1/4" (184.2 mm) on centres with storm proof performance
- **CONSTRUCTION:** blade assembly is designed to prevent bowing and distortions. All corners are mitered to provide a neat, uniform extrusion profile at the perimeter.
- **SCREENS:** 1/2" x 1/2" regalvanized wire
- **FINISHES:** mill is standard finish, anodized or baked enamel available at additional cost.
- **SIZES:** available in any combination of width or height (multiple sections may be required). Minimum size available: 6" x 16".

### ORDERING METHOD

- **No flange:** EL6-W x H eg) EL6-24x24
- **With flange:** EL6F-W x H eg) EL6F-24x24



**Non-standard shutters are non-returnable and cannot be cancelled.**



## OPERATING LOUVRES MODEL - EAL-4-0, EAL-4-0F

**Ideal for applications in which the available space does not allow for a fixed louvre and a backdraft damper.**

Models EAL-4-0 and EAL4-0F are 4" deep operable louvres with storm proof blades which pivot on aluminum pins rotating in nylon flanged bearings. Manual or motor operators may be employed. Bird screen is 1/2" x 1/2" regalvanized wire and normally mounted on the face of the louvres.

### FEATURES

- **MATERIAL:** .085" (2.16 mm) thick, 6063-T5 alloy, extruded aluminum
- **BLADE DESIGN:** adjustable to 6 1/8" (156 mm) on centres with storm proof performance, 45° spaced
- **CONSTRUCTION:** blade assembly is designed to prevent bowing and distortions. Complete with jam and blade seals.
- **SCREENS:** 1/2" x 1/2" (12.7 mm x 12.7 mm) regalvanized wire
- **FINISHES:** mill is standard finish, anodized or baked enamel available at additional cost.
- **SIZES:** available in any combination of width or height (multiple sections may be required). Minimum size available: 6" x 16".
- **STANDARD METHOD OF OPERATION:** Chain. Belimo actuators available. See page 52.

### ORDERING METHOD

- **No flange:** EL40-W x H eg) EL40-24x24
- **With flange:** EL4F-W x H eg) EL40F-24x24



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# SCD - STEEL CONTROL DAMPERS STANDARD CONSTRUCTION

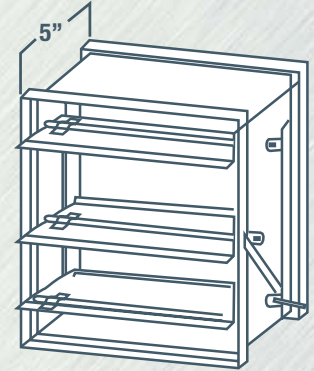
The SCD series control dampers have been designed and tested to provide a reliable cost effective control damper where tight sealing is NOT of primary importance (for tight sealing dampers, use model SCD-LL). Its design allows it to be used in either an exhaust or intake applications.

The SCD series rigid frame and integrally braced corners provide true damper alignment that greatly resists being installed out of square or out of flat. Available in either parallel or opposed blade models.

SCD dampers less than 7" in height are furnished with a low profile flat top and bottom to maximize free area. Dampers may be made to accommodate higher than the recommended 2.5" w.g. static pressure. Contact factory if application involves pressures in excess of 2.5" w.g. or velocities greater than 1500 fpm. Factory installed operators are available. Consult factory for details.

## FEATURES

- **FRAME:** roll-formed galvanized steel hat section with staked corners with integral bracing.
- **BLADE:** 16-18 gauge triple-vee profile roll-formed galvanized steel. Minimum width: 4.25". Maximum width: 7.25". Opposed blades are standard (for parallel, please specify).
- **BEARINGS:** nylon, press fit into frame
- **AXLES:** square, plated steel or nylon
- **LINKAGES:** concealed in frame. Leakage bars are 12 gauge thick galvanized steel.
- **FINISH:** mill galvanized
- **EXTENDED SHAFT:** 0.5" diameter, plated steel
- **MAXIMUM TEMPERATURE:** 160°F
- **SIZES:** Minimum size: 5" W x 4" H; Maximum size: single section - 48" W x 72" H; Multiple section - unlimited size



## ORDERING METHOD

- SD-WxH (A or B) eg SD-24x24A
- Must specify if motor is to be in or out of airstream : A = mounted in airstream; B = mounted out of airstream

See page 51 for Belimo motor options.



Non-standard shutters are non-returnable and cannot be cancelled.

# SCD-LL - STEEL CONTROL DAMPERS LOW LEAKAGE CONSTRUCTION

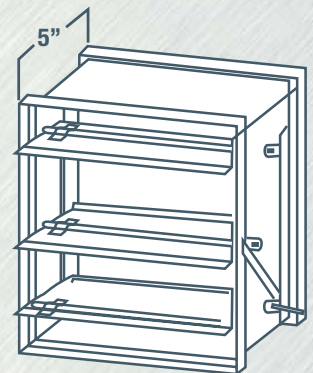
The SCD-LL series control dampers have been designed and tested to provide an extremely tight sealing damper which is cost effective for the majority of HVAC applications. They are generally recommended for face velocities up to 1500 fpm and static pressures to 2.5" w.g. (Note: for systems in excess of 2.5 w.g., contact the factory.)

The SCD-LL series dampers have inflatable pressure sensitive jamb and blade edge seals to provide the ultimate in sealing characteristics without unduly increasing torque requirements. Available in either parallel or opposed (standard) blade models.

SCD-LL dampers less than 7" in height are furnished with a low profile flat top and bottom to maximize free area. SCD-LL dampers have a rigid frame and integrally braced corners that provide true damper alignment that greatly resists being installed out of square or out of flat. This ensures on site performance equal to test results. Factory installed operators are available. Consult factory for details.

## FEATURES

- **FRAME:** roll-formed galvanized steel hat section with staked corners with integral bracing.
- **BLADE:** 16-18 gauge triple-vee profile roll-formed galvanized steel. Minimum width: 4.25". Maximum width: 7.25". Opposed blades are standard (for parallel, please specify).
- **BEARINGS:** bronze oilite or nylon. Press into frame.
- **SEALS:** dual durometer, pressure sensitive blade edge and jamb seals
- **LINKAGES:** concealed in frame. Leakage bars are .125" thick plated steel.
- **FINISH:** mill galvanized
- **EXTENDED SHAFT:** 0.5" diameter, plated steel
- **MAXIMUM TEMPERATURE:** 200°F
- **SIZES:** Minimum size: 5" W x 4" H; Maximum size: single section - 48" W x 72" H; Multiple section - unlimited size



## PERFORMANCE DATA

The SCD-LL dampers have been tested to AMCA Standard 500 with the following results:

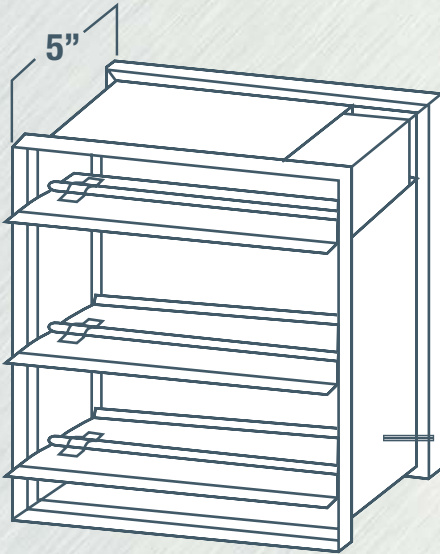
	AT 1.0" w.g.	AT 2.5" w.g.	AT 4.0" w.g.
<b>LEAKAGE (cfm/SQ FT)</b>	<b>3.5</b>	<b>5.0</b>	<b>7.0</b>

## ORDERING METHOD

- SL-WxH (A or B) eg SL-24x24A
- Must specify if motor is to be in or out of airstream : A = mounted in airstream; B = mounted out of airstream



Non-standard shutters are non-returnable and cannot be cancelled.



# SCD-LL-HD-57 - HEAVY DUTY CONTROL DAMPERS

## LOW LEAKAGE CONSTRUCTION

The SCD-LL-HD-57 series dampers have been designed and tested to provide rigid, robust and yet cost effective control dampers for special applications involving high pressure up to 13.0" w.g.

The SCD-LLHD-57 dampers have a pressure sensitive jamb and the blade edge seals to provide the ultimate in sealing characteristics without unduly increasing torque requirements.

The SCD-LL-HD-57 series damper's rigid frame and integrally braced corners provide true damper alignment that greatly resists being installed out of square or out of flat. This ensures on site performance equal to test results. Factory installed electric motors are available. Consult factory for details.

### FEATURES

- **FRAME:** roll-formed galvanized steel hat section with staked corners with integral bracing & roll-formed galvanized steel C channel insert welded to provide equivalent of 12 gauge steel.
- **BLADE:** 16 gauge roll-formed galvanized steel & 16 gauge roll-formed galvanized steel continuous rigidizing section to provide equivalent of 10 gauge steel.
- **BEARINGS:** nylon, press fit into frame
- **AXLES:** square, plated steel or nylon
- **SEALS:** pressure sensitive, dual durometer blade edge seals and aluminum jamb seals
- **LINKAGES:** concealed in frame. Leakage bars are 12 gauge thick galvanized steel
- **FINISH:** mill galvanized
- **EXTENDED SHAFT:** 0.5" diameter, plated steel
- **MAXIMUM TEMPERATURE:** 160°F
- **SIZES:** Minimum size: 8" W x 8" H (203 mm x 203 mm); Maximum size: single section - 60" W x 72" H (1524 mm x 1829 mm); Multiple section - unlimited size.

### PERFORMANCE DATA

The SCD-LL-HD-57 dampers have been tested to **AMCA Standard 500** with the following results:

	AT 1.0" w.g.	AT 4.0" w.g.	AT 8.0" w.g.	AT 8.0" w.g.
<b>LEAKAGE (cfm/SQ FT)</b>	<b>3.5</b>	<b>7.0</b>	<b>9.8</b>	<b>11.2</b>

### ORDERING METHOD

- SL-HD-WxH (A or B) eg SL-HD-24x24A
- Must specify if motor is to be in or out of airstream : A = mounted in airstream; B = mounted out of airstream

See page 55 for Belimo motor options.

### OPTIONAL CONSTRUCTION

- **BEARINGS:** bronze oilite, press fit into frame
- **SEALS:** pressure sensitive, high temperature dual durometer blade seals and stainless steel jamb seals. Maximum temperature rating of 250° F (Note: for proper model # consult factory).

**NOTE:** dampers are furnished approximately 1/4" smaller than given duct dimensions. Not recommended with blades running vertically. All dampers 32" and over are supplied with Jack shafting.



**Non-standard shutters are non-returnable and cannot be cancelled.**

# SCD-RD-88 - STEEL ROUND CONTROL DAMPERS STANDARD CONSTRUCTION

The SCD-RD-88 series control dampers have been designed and tested to provide a reliable cost effective control damper where tight sealing is NOT of primary importance. (Note: tight sealing dampers, see model # SCD-RD-LL-88).

Factory installed electric operators are available when dampers are ordered with motor standard off bracket. Consult factory for details.

## FEATURES

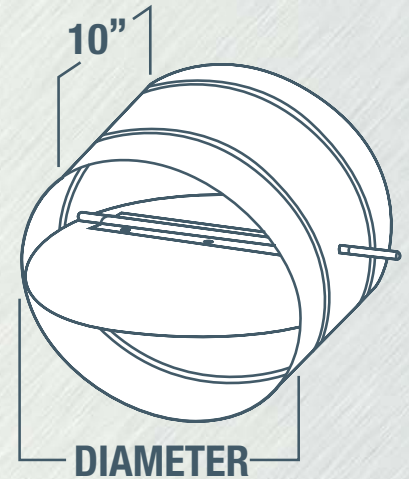
- **FRAME:** galvanized steel, rolled reinforcement.
 

DIAMETER	GAUGE
4" - 8"	22 ga.
9" - 12"	20 ga.
13" - 24"	18 ga.
- **BLADE:** galvanized steel with welded channel reinforcement.
- **BEARINGS:** bronze oilite
- **AXLES:** 3/8" square plated steel
- **FINISH:** mill galvanized
- **EXTENDED SHAFT:** removable. 1/2" diameter, plated steel
- **MAXIMUM TEMPERATURE:** 200°F
- **DAMPER SIZES:** 5" to 24" diameter

## ORDERING METHOD

- Use diameter required. SCD-RD-diameter eg) SCD-RD-10

 Non-standard dampers are non-returnable and cannot be cancelled.



**NOTE:** dampers are furnished approximately 1/8" smaller than given duct dimensions.

# SCD-RD-LL-88 - STEEL ROUND CONTROL DAMPERS LOW LEAKAGE CONSTRUCTION

The SCD-RD-LL-88 series control dampers have been designed and tested to provide an extremely tight sealing damper which is cost effective for the majority of HVAC applications.

The SCD-RD-LL-88 series dampers have pressure sensitive blade edge seals to provide the ultimate in sealing characteristics without unduly increasing torque requirements. Factory installed electric operators are available when dampers are ordered with motor stand off bracket. Consult factory for details.

## FEATURES

- **FRAME:** galvanized steel, rolled reinforcement.
 

DIAMETER	GAUGE
4" - 8"	22 ga.
9" - 12"	20 ga.
13" - 24"	18 ga.
- **SEALS:** dual durometer pressure sensitive blade edge and jamb seals
- **BLADE:** galvanized steel with welded channel reinforcement.
- **BEARINGS:** bronze oilite
- **AXLES:** 3/8" square plated steel
- **FINISH:** mill galvanized
- **EXTENDED SHAFT:** removable. 1/2" diameter, plated steel
- **MAXIMUM TEMPERATURE:** 200°F
- **DAMPER SIZES:** 5" to 24" diameter

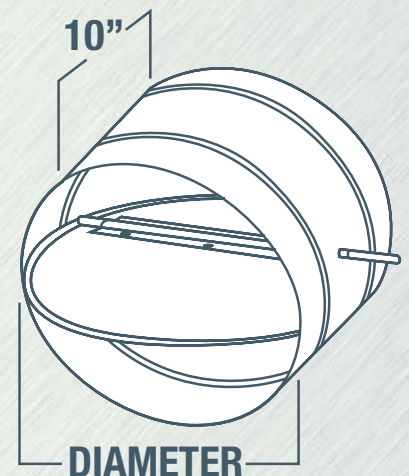
## ORDERING METHOD

- Use diameter required. SCD-RD-LL-diameter eg) SCD-RD-LL-10

## PERFORMANCE DATA

The SCD-LL-HD-57 dampers have been tested to AMCA Standard 500 with the following results:

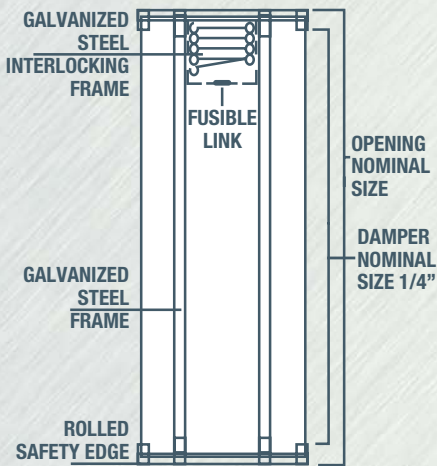
	AT 1.0" w.g.	AT 2.5" w.g.	AT 4.0" w.g.
<b>LEAKAGE (cfm/SQ FT)</b>	<b>1.0</b>	<b>1.5</b>	<b>4.0</b>



**NOTE:** dampers are furnished approximately 1/8" smaller than given duct dimensions.

 Non-standard dampers are non-returnable and cannot be cancelled.

### TYPICAL VERTICAL DAMPER



# TYPE A - FIRE DAMPERS VERTICAL & HORIZONTAL

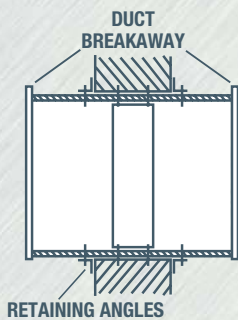
## FEATURES

- Narrow 2 3/16" or 1 1/2" frame
- Electro thermal links - 165°F standard
- Other fusible links 135°F, 212°F, 286°F
- Adjustable blade stack for combination fire/balancing damper
- Solenoid release
- Micro-switches for fan shut off and/or status control
- Stainless steel construction
- 1 1/2 hour rating standard - 3 hour optional vertical only
- Maximum size: 36" x 36"; Minimum size: 6" x 6"

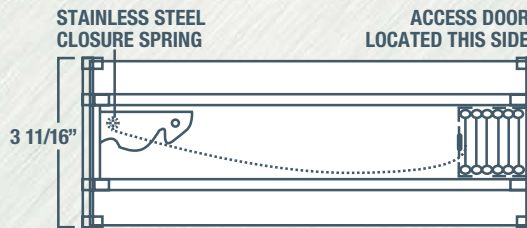
## SPECIAL NOTE

When the damper or damper assembly exceeds either 48" in width or 60" in height, the retaining angles should not be less than 1 1/2" x 1 1/2" x 1/8" thick and should be attached to the sleeve using 20 1/4" x 3/4" round head stove bolts at 8" on C. 1" long welds or No. 14 x 3/4" sheet metal screws at the same spacing.

### SUGGESTED INSTALLATION

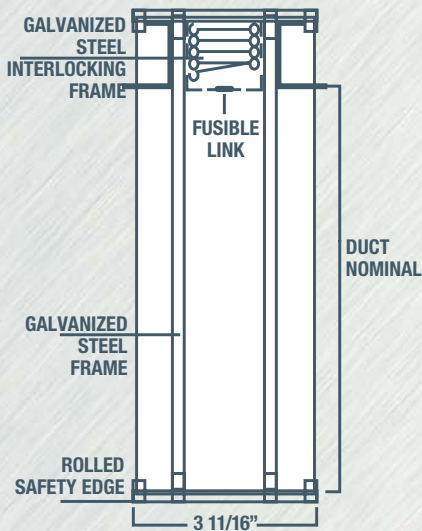


### TYPICAL HORIZONTAL DAMPER



Type A & Type B Fire Dampers are non-standard dampers and are non-returnable and cannot be cancelled.

### TYPICAL VERTICAL DAMPER



# TYPE B - FIRE DAMPERS VERTICAL & HORIZONTAL

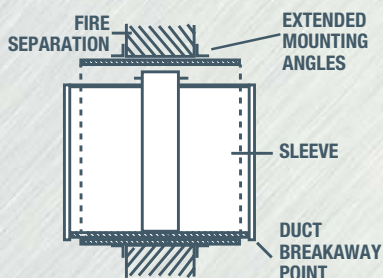
## FEATURES

- Narrow 2 3/16" or 1 1/2" frame
- Electro thermal links - 165°F standard
- Other fusible links 135°F, 212°F, 286°F
- Adjustable blade stack for combination fire/balancing damper
- Solenoid release
- Micro-switches for fan shut off and/or status control
- Stainless steel construction
- 1 1/2 hour rating standard - 3 hour optional vertical only
- Maximum size: 36" x 36"; Minimum size: 6" x 4"

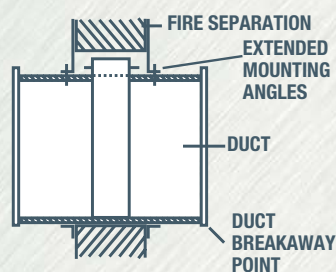
## SPECIAL NOTE

When the damper or damper assembly exceeds either 48" in width or 60" in height, the retaining angles should not be less than 1 1/2" x 1 1/2" x 1/8" thick and should be attached to the sleeve using 20 1/4" x 3/4" round head stove bolts at 8" on C. 1" long welds or No. 14 x 3/4" sheet metal screws at the same spacing.

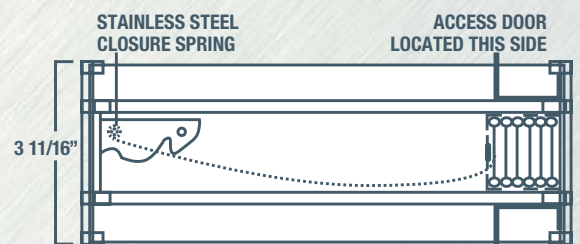
### SUGGESTED INSTALLATION



### ALTERNATE INSTALLATION



### TYPICAL HORIZONTAL DAMPER



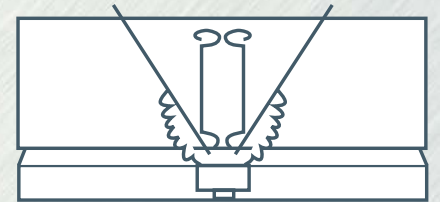
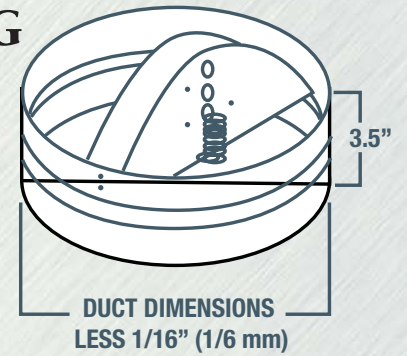
# CD-RD-85 - CD-RD-A-85 ROUND CEILING DAMPER STANDARD CONSTRUCTION

## MODELS

- **CD-RD-85** - Round, butterfly-type (non asbestos)
- **CD-RD-A-85** - Round, butterfly-type (non asbestos) with adjustable volume control

## FEATURES

- **FRAME:** 24 gauge galvanized steel
- **BLADES:** 22 gauge galvanized steel.
- **THERMAL BLANKET:** non-asbestos ceramic blanket
- **SPRING:** corrosion resistant steel spring
- **FUSIBLE LINK:** replaceable 165°F standard. Other ratings available.
- **FINISH:** mill
- **SIZES:** Minimum size: 5"; Maximum size: 15"  
(For sizes 16" to 20" CFST-2 will be supplied.)
- **UL/UCL LISTINGS:** 3 - 4 hours



CD-RD-A-85  
WITH ADJUSTABLE VOLUME CONTROLLER

## ORDERING METHOD

- Use diameter required: CD-RD-85-diameter eg) CD-RD-85-8



Non-standard dampers are non-returnable and cannot be cancelled.

# AD - AF ALUMINUM CONTROL DAMPERS

## FEATURES

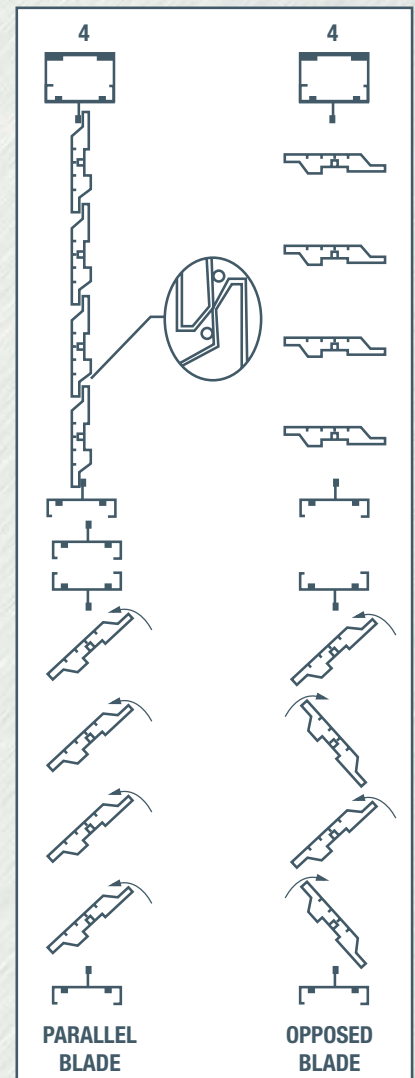
- **DEPTH BLADES CLOSED:** 4" (101 mm)
- **DEPTH BLADES OPEN:** 6 1/8" (156 mm)
- **MATERIAL:** extruded 6063-T5 aluminum
- **FRAME THICKNESS:** 0.081" (2.06 mm)
- **BLADE STYLE:** **OB** - opposed blade standard; **PB** - parallel blade on request
- **BLADE THICKNESS:** 0.081" (2.06 mm)
- **BEARINGS:** moulded synthetic (Acetal)
- **SEALS:** co-extruded santoprene vinyl blade seal and vinyl jamb seal
- **AXLES:** 3/8" aluminum square bar
- **FRAME STYLE:** specify **DM** for Duct Mount or **FM** for Flange Mount
- **MINIMUM HEIGHT:** 8" (203 mm) single blade; 15" (381 mm) multiple blade
- **MAXIMUM PANEL WIDTH:** 60" (1524 mm)
- **MAXIMUM PANEL HEIGHT:** 60" (1524 mm)
- **MAXIMUM SYSTEM PRESSURE:** 5" w.g. for 60" blades
- **LEAKAGE:** does not exceed 7 CFM/ft<sup>2</sup> (341/s/m<sup>2</sup>) against 4" w.g. (1 kPa) differential static pressure at -40°F (-40°C)
- **LINKAGE:** concealed in frame
- **STANDARD FINISH:** mill
- **STANDARD MOTOR INSTALLATION:** side shaft direct drive, extendable up to 12"

## ORDERING METHOD

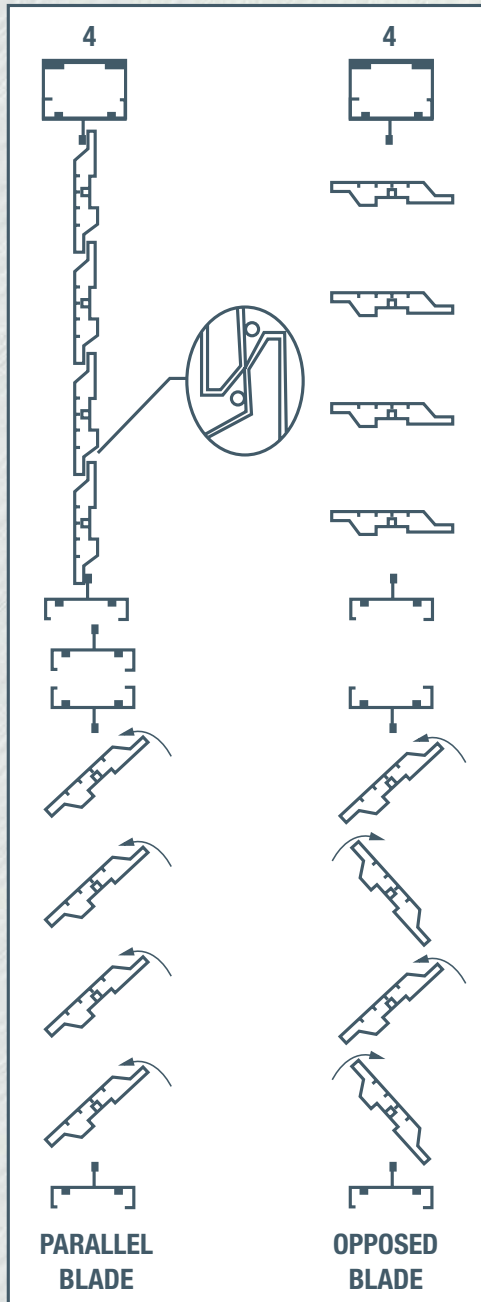
- **DUCT MOUNT:** AD-WxH
- **FLANGE MOUNT:** AF-WxH



Non-standard dampers are non-returnable and cannot be cancelled.



# ADI - AFI ALUMINUM CONTROL DAMPERS



## FEATURES

- **DEPTH BLADES CLOSED:** 4" (101 mm)
- **DEPTH BLADES OPEN:** 6 1/8" (156 mm)
- **MATERIAL:** extruded 6063-T5 aluminum
- **FRAME THICKNESS:** 0.081" (2.06 mm)
- **BLADE STYLE:** **OB** - opposed blade standard; **PB** - parallel blade on request
- **BLADE THICKNESS:** 0.081" (2.06 mm)
- **BEARINGS:** dual bearing system, consists of Engineered thermoplastic bearings (Acetal)
- **SEALS:** co-extruded santoprene vinyl blade seal and vinyl jamb seal
- **AXLES:** 3/8" aluminum square bar
- **FRAME STYLE:** specify **DM** for Duct Mount or **FM** for Flange Mount
- **FRAME INSULATION:** polystyrene insulation
- **BLADE INSULATION:** 60" blades are thermally broken high density polyurethane non-CFC foam (R-2.25)
- **MINIMUM HEIGHT:** 8" (203 mm) single blade; 15" (381 mm) multiple blade
- **MAXIMUM PANEL WIDTH:** 60" (1524 mm)
- **MAXIMUM PANEL HEIGHT:** 60" (1524 mm)
- **MAXIMUM PANEL SIZE:** 20 square feet
- **MAXIMUM SYSTEM PRESSURE:** 4" w.g.
- **LEAKAGE:** does not exceed 7 CFM/ft<sup>2</sup> (341/s/m<sup>2</sup>) against 4" w.g. (1 kPa) differential static pressure at -40°F (-40°C)
- **LINKAGE:** concealed in frame
- **STANDARD FINISH:** mill
- **STANDARD MOTOR INSTALLATION:** side shaft direct drive, extendable up to 12"
- **OPERATING TEMPERATURE RANGE:** -40° to +200°F

## ORDERING METHOD

- **DUCT MOUNT:** ID-WxH
- **FLANGE MOUNT:** FD-WxH



Non-standard dampers are non-returnable and cannot be cancelled.

# CONTROLS / OPERATORS



**MULTI PRODUCTS**



**BELIMO ACTUATORS**

MANUFACTURER	MODEL	DESCRIPTION	MAX. DAMPER SQ. FT.		VOLTAGE
			WITH SEALS	NO SEALS	
CHAIN OPERATOR	<b>CHAINOP</b>	MANUAL OPEN/MANUAL CLOSE	N.A.	N.A.	N.A.
LOCKING QUADRANT	<b>2V100</b>	MANUAL OPEN / MANUAL CLOSE	N.A.	N.A.	N.A.
MULTI PRODUCTS	<b>2W103</b>	POWER OPEN SPRING RETURN	3.0	6	230V AC
	<b>2W100</b>	POWER OPEN SPRING RETURN	3.0	6	120V AC
	<b>2W104</b>	POWER OPEN SPRING RETURN	3.0	6	24V AC
BELIMO	<b>LF24</b>	POWER OPEN SPRING RETURN	4.0	8	24V AC/DC
	<b>LF24-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	4.0	8	24V AC/DC
	<b>LF24-SR</b>	MODULATING POWER OPEN SPRING CLOSE	4.0	8	24V AC/DC
	<b>LF120</b>	POWER OPEN SPRING RETURN	4.0	8	120V AC
	<b>LF120-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	4.0	8	120V AC
	<b>LF230</b>	POWER OPEN SPRING RETURN	4.0	8	230V AC
	<b>LF230-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	4.0	8	230V AC
	<b>NF24</b>	POWER OPEN SPRING RETURN	7.5	15	24V AC/DC
	<b>NF24-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	7.5	15	24V AC/DC
	<b>NF24-SR</b>	MODULATING POWER OPEN SPRING CLOSE	7.5	15	24V AC/DC
	<b>NF120</b>	POWER OPEN SPRING RETURN	7.5	15	120V AC
	<b>NF120-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	7.5	15	120V AC
	<b>AF24</b>	POWER OPEN SPRING RETURN	17.5	35	24V AC/DC
	<b>AF24-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	17.5	35	24V AC/DC
	<b>AF24-SR</b>	MODULATING POWER OPEN SPRING CLOSE	17.5	35	24V AC/DC
	<b>AF120</b>	POWER OPEN SPRING RETURN	17.5	35	120V AC
	<b>AF120-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	17.5	35	120V AC
	<b>AF230</b>	POWER OPEN SPRING RETURN	17.5	35	230V AC
<b>AF230-S</b>	POWER OPEN SPRING RETURN C/W AUX. SWITCH	17.5	35	230V AC	