



CD-FRP-DAMPER

PART	MATERIAL
FRAME	VINYL ESTER RESIN WITH POLYCARBONATE JAMB SEAL
BLADE	VINYL ESTER RESIN WITH EPDM SEAL
BEARING	MOLDED PTFE

MAXIMUM TEMPERATURE – 200 °F (94 °C)

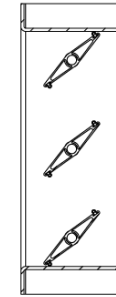
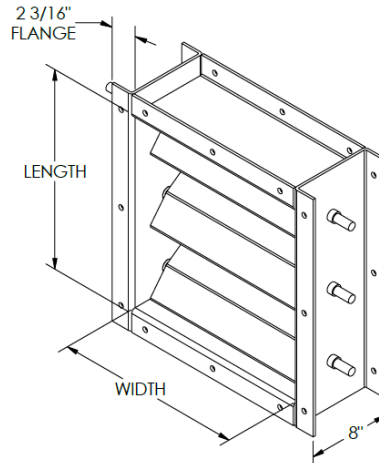
MINIMUM SIZE –

SINGLE BLADE, PARALLEL – (6"W x 8"H)

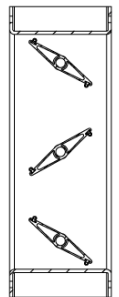
TWO BLADE, PARALLEL OR OPPOSED – (6"W x 12"H)

MAXIMUM SIZE – 48"W x 72"H

Torque Applied – 10 in. lbs per sq ft.



PARALLEL
BLADE ACTION



OPPOSED
BLADE ACTION

PRESSURE LIMITATIONS

DAMPER WIDTH	MAXIMUM SYSTEM PRESSURE	MAXIMUM SYSTEM VELOCITY
48"	12" w.g	4000 FPM
40"	14" w.g	4000 FPM
24"	20" w.g	4000 FPM
12"	28" w.g	4000 FPM

FRAME			BLADE SEALS	AXLES
CD-FRP-	L	W		
CD-FRP-				
CD-FRP-				
CD-FRP-				
CD-FRP-				
			Silicon Rubber	3/4" Diameter FRP 3/4" Diameter SS
			EPDM	
			Polycarbonate Jamb	
			Stainless Steel	
			Axle Shaft	

TOTAL CFM LEAKAGE ONE INCH W.G STATIC PRESSURE DIFFERENTIAL											
DAMPER WIDTH	DAMPER LENGTH										
	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"
12"	7.5	11	15	19	23	26	30	34	38	41	45
24"	10	15	20	25	30	35	40	45	50	55	60
36"	12	18	24	30	36	42	48	54	60	66	72
48"	16	24	32	40	48	56	64	72	80	88	96

TABLE 1.2

LEAKAGE CORRECTION FACTOR																				
STATIC PRESSURE (in. w.g)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CORRECTION FACTOR	1.0	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

**TABLE 1.3****LEAKAGE DETERMINATION:**

To determining the leakage at static pressure higher then 1" w.g –

= 1" Leakage from Table 1.2 x Correction Factor from Table 1.3 @ desired w.g

Example – Finding a leakage for 48" wide and 36" high damper at 4" w.g

= 40 CFM X 2.0 = 80 CFM leakage at 4" w.g

INSTALLATION:

Dampers must be installed square and free from racking. Opposed blade dampers must be operated from a power blade or driver axle.

NOTE:

Dampers are designed to operate with horizontally oriented blades. If installation requires vertical blades, thrust collars must be added during manufacturing at an additional cost. Additionally, some standard features may not be available for dampers with vertical blades.