

CD82HT INDUSTRIAL HIGH TEMPERATURE CONTROL DAMPER

STANDARD CONSTRUCTION

FRAME

8" x 2" x 3/16" (203 x 51 x 5) steel channel.

BLADES

1/4" (6) steel, 6" (152) to 7 3/4" (197) wide.

AXLES

1" (25) Dia. stainless steel.

BEARINGS

Cast iron sleeve bolted to frame.

LINKAGE

Side linkage out of airstream 3/8" (10) x 1 1/4" (32) steel tiebars. 3/8" (10) diameter steel pivot pins (or shoulder bolts). 1/4" (6) steel operating arms.

OPERATING LEVER

Hand Quadrant (HQ) for manual operation or Crank Lever (CL) for motor operation.

FINISH

High temperature aluminum paint.

MAXIMUM DAMPER SIZE

60"w x 96"h (1524 x 2438).

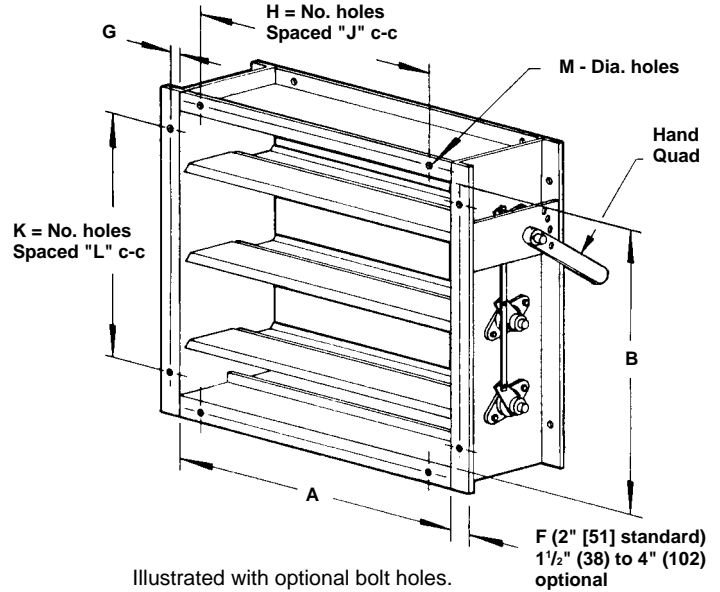
MINIMUM DAMPER SIZE

Two Blade opposed or parallel action – 6"w x 12"h (152 x 305).

Single Blade – 6"w x 6"h (152 x 152).

MAXIMUM TEMPERATURE

750°F (399°C). Order Must Specify Max. Temperature.



VARIATIONS

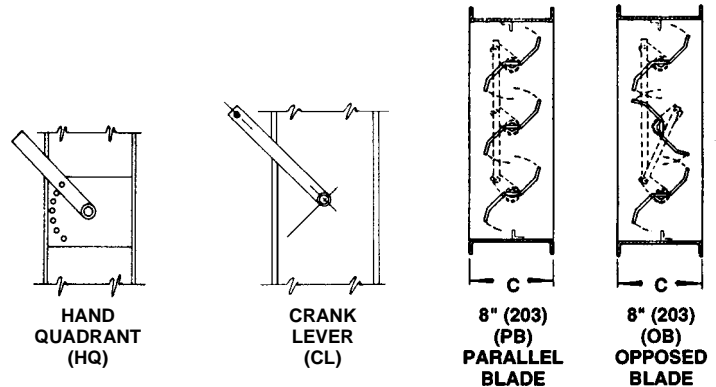
Additional variations to those listed in table are available. Contact Ruskin for pricing.

- Heavier Construction
- Higher Temperature Construction

NOTES:

All options at additional cost.

Dimensions in parenthesis () indicate millimeters.



FRAME		BLADES		SEALS (Opt)		AXLES		BEARINGS		LINKAGE		ACCESSORIES	
8" x 2" x 3/16" (203 x 51 x 5) STEEL CHANNEL		1/4" (6) STEEL		TETRA GLASS BLADE SEALS (OPT)		1" (25) DIA STN STL		CAST IRON SLEEVE BOLTED TO FRAME.		SIDE (EXTERNAL) LINKAGE		MANUAL ACTUATOR	HQ CL
8" x 2" x 3/16" (203 x 51 x 5) 304SS (OPT)		1/4" (6) 304SS (OPT)		STN STL JAMB SEALS (OPT)				OUTBOARD BRGS WITH HIGH TEMP. SHAFT SEALS (OPT)				PNEUMATIC ACTUATOR (OPT)	
8" x 2" x 3/16" (203 x 51 x 5) CORTEN (OPT)		1/4" (6) CORTEN (OPT)										ELECTRIC ACTUATOR (OPT)	
		1/4" (6) ABRASION RESISTANT STEEL (OPT)										BOLT HOLES ONE FLANGE (OPT)	
												BOLT HOLES BOTH FLANGES (OPT)	
												1.5" TO 4" (38 to 102) FLANGES (OPT)	

QTY.	BLADE ACTION		DIMENSIONS									TEMP °F	VARIATIONS	TAG	
	PB	OB	A	B	C	F	G	H	J	K	L				M
JOB			LOCATION												
CONTRACTOR															

CD82HT SUGGESTED SPECIFICATION

Furnish and install, at locations shown in plans or in accordance with schedules, high temperature industrial grade control dampers meeting the following construction standards: Frame shall be minimum 8" deep x 2" flanged x 3/16" (203 x 51 x 5) steel channel. Blades shall be 1/4" (6) formed steel, maximum 73/4" (1526) wide. Axles shall be minimum 1" (25) diameter stainless steel rod. Bearing shall be cast iron flange style bolted to the frame. Oil impregnated bronze or press fit bearings are not acceptable. Linkage shall be located in jamb out of airstream and constructed of minimum 3/8" x 1 1/4" (10 x 32) steel tiebars pivoting on 3/8" (10) diameter steel pins and 1/4" (64) steel operating arms. Shoulder

bolts are acceptable alternates to pivot pins. Standard construction shall include (specifier choose) locking hand quadrant for manual operation or crank lever for motor operation. Damper shall be Ruskin model CD82HT Control Damper.

Add to specification if required: Dampers shall be equipped with blade and jamb seals for low leakage application. Blade seals shall be mechanically attached to blade. Adhesive type seals are not acceptable. Jamb seals shall be flexible stainless steel located between the blade edge and jamb for maximum sealing compression. Wind stops or sponge seals are not acceptable.

CD82HT PERFORMANCE DATA

DAMPER WIDTH INCHES	MAXIMUM SYSTEM PRESSURE	MAXIMUM SYSTEM VELOCITY	LEAKAGE*	
			Percent of Max. Flow	CFM/Sq. Ft.
60" (1524)	13.0" w.g.	2000 FPM	1.6%	32
48" (1219)	15.0" w.g.	2500 FPM	1.3%	32
36" (914)	17.0" w.g.	3000 FPM	1.1%	32
24" (610)	19.0" w.g.	3500 FPM	1.1%	40
12" (305)	21.0" w.g.	4000 FPM	1.5%	60

*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.

Dimensions in parenthesis () indicate millimeters.



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