

RECTANGULAR DAMPERS

CD40, CD50, CD60 SERIES

DESCRIPTION

The Ruskin CD40, CD50, CD60 parallel and opposed-blade HVAC control dampers are custom made-to-order. The damper frames are made of galvanized steel in a channel frame construction, offering an equivalent 13-gauge metal strength. The CD40 Series has 6" wide V-groove blades that are made of 16-gauge galvanized steel with synthetic bearings. The CD50 has aluminum airfoil blades with synthetic bearings. CD60 dampers offer 14-gauge blades.

FEATURES

- Air foil blade design for low noise (CD50, CD60)
- Available with factory installed pneumatic or electric actuators
- · Positive lock axles
- Front or bypass configuration available
- · Linkage concealed in frame









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COMMON	PECIFICATIONS		
Type CD44	Parallel or opposed blade Basic control damper, approximately	Frame	CD44, 45, 46, 50 5" x 1" 6063TS Extruded
	4% leakage	CD60	5" x 1" Galvanized Steel
CD45	Standard control damper, AMCA Class 3	Bearings	Synthetic
CD46	Low leakage control damper, AMCA Class 2	Blade Design	6" galvanized steel for CD40, CD60; 6" aluminum for CD50; blade pins 0.5" steel
CD50	Aluminum frame air foil, ultra-low AMCA Class 1A	Side Seals	hex Self-adjusting steel (CD45, 46, 50, 60)
CD60	Steel air foil, ultra-low AMCA Class 1A	Linkage	Concealed in frame
Shaft	6"L x 0.5" Dia. (15.2 x 1.3 cm) located on	Available Option	ns Flanges (front and/or rear)
	linkage side	Weight	7 lbs/sq. ft (shipping weight estimate)
		Warranty	1 year

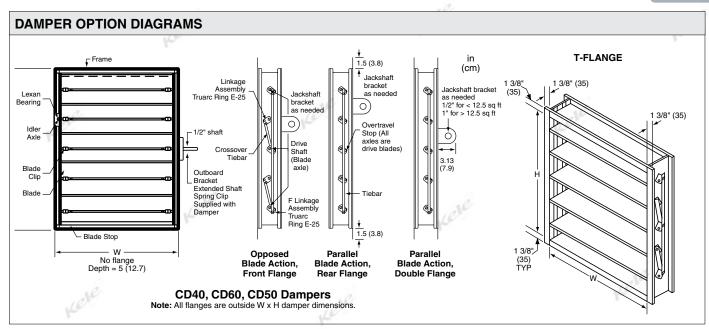
INDIVIDUAL SPECIFICATIONS						
	CD44	CD45	CD46	CD50	CD60	
Blades	16-gauge V-groove	16-gauge V-groove	16-gauge V-groove	Aluminum airfoil	14-gauge steel airfoil	
Jamb seals	None	Flexible steel	Flexible steel	Flexible steel	Flexible steel	
Blade seals	None	Foam	PVC coated polyester	Ruskiprene®	Ruskiprene®	
Leakage (% of maximum flow)	2.7 to 4.3% @ 1" WC differential pressure	0.7 to 1.1% @ 1" WC differential pressure	0.4 to 0.5% @ 1" WC differential pressure	<8 cfm/sq. ft. @ 4" WC differential pressure	<3 cfm/sq. ft. @ 1" WC differential pressure	
AMCA Class	Not classified	Class 3	Class 2	Class 1A	Class 1A	
Operating Temperature	-40° to 240°F (-40° to 116°C)	-25° to 180°F (-32° to 83°C)	-25° to 180°F (-32° to 83°C)	-72° to 275°F (-58° to 135°C)	-72° to 275°F (-58° to 135°C)	
Maximum Velocity	2000 fpm @ 2.5" WC	2000 fpm @ 2.5" WC	2000 fpm @ 2.5" WC	3000 fpm @ 3.5" WC	3000 fpm @ 3.5" WC	
Torque required	2.5 in-lb/sq. ft.	5 in-Ib/sq. ft.	7 in-Ib/sq. ft.	7 in-Ib/sq. ft.	7 in-Ib/sq. ft.	

ACTUATORS & DAMPERS

RECTANGULAR DAMPERS

CD40. CD50. CD60 SERIES





ORDERING INFORMATION

MODEL	DESCRIPTION
_	Steel control damper without jamb or blade seals. No leakage class, 4% of maximum flow approximate leakage at 4" W.C., not recommended for OSA intake
	Steel control damper with flexible stainless steel jamb seals and foam blade seals. AMCA Class 3 leakage, 40 CFM/ft² at 1" W.C.
	Steel control damper with flexible stainless steel jamb seals and PVC blade seals. Very low AMCA Class 2 leakage, 10 CFM/ft² at 1" W.C.
CD50	Aluminum control damper with flexible stainless steel jamb seals and Ruskiprene® blade seals. Ultra-low AMCA Class 1A leakage, 3 CFM/ft² at 1" W.C.
	Steel control damper with flexible stainless steel jamb seals and Ruskiprene® blade seals. Ultra-low AMCA Class 14 leakage, 3 CFM/ft² at 1*W.C.)
	BLADE CONFIGURATION
	OB Opposed blade (damper must have two blades minimum)

- PB Parallel blade (single blade available)

MOUNTING OPTIONS

- 0 No flange
- 1* Flange on front of damper, opposite side of jack shaft (if jack shaft included)
 2* Flange on back of damper, same side as jack shaft (if jack shaft included)
- 3* Flanges both front and back
- 4 T-flange frame option for wafer-style mounting with increased free area (see T-Flange Frame drawing)

SPECIAL CONSTRUCTION

- Horizontal blade mounting, no special construction
- Vertical blade mounting configuration (includes thrust bearings)**

SIZE - WIDTH*	** by HEIGHT in INCHES (0.01" INCRE	MENTS), PLEA	SE OBSERVE LIMITS IN TH	IS TABLE
	Model and mounting	Blade style	Single section ‡	

	Model and mounting	Blade style	Single section ‡		Multi-section †	
			Minimum	Maximum	Minimum	Maximum
	CD4x models horizontal blade:	Opposed	5" x 10"	48" x 72"	48" x 72.01"	Unlimited
		Parallel	5" x 5"	48" x 72"	48" x 72.01"	Unlimited
	CD4x models vertical blade:	Opposed	5" x 10"	36" x 48"	Special construction call Kele	
		Parallel	5" x 5"	36" x 48"		
(W*** x H)	CD50 models horizontal blade:	Opposed	6" x 9"	60" x 72"	48" x 72.01"	Unlimited
,	OBSO Models nonzoniai biade.	Parallel	6" x 8"	60" x 72"	48" x 72.01"	Unlimited
	CD50 models vertical blade:	Opposed	6" x 9"	36" x 48"	Special construction call Kele	
		Parallel	6" x 8"	36" x 48"		
	CD60 models horizontal blade:	Opposed	8" x 11"	60" x 72"	48" x 72.01"	Unlimited
		Parallel	8" x 10"	60" x 72"	48" x 72.01"	Unlimited
	CD60 models vertical blade:	Opposed	8" x 11"	36" x 48"	Special construction call Kele	
	ODGG HIGGGIG VETTIGAT BIAGE.	Parallel	8" x 10"	36" x 48"		

- All flanges are outside the ordered damper dimension (W x H). See damper option diagrams for flange dimensions.
- Vertical blade construction
- Damper width is defined as the outside dimension parallel to the blade(s), regardless of vertical or horizontal orientation.
- Jackshaft is included in all multi-section dampers. Crank arm is not included

‡ All single-section dampers have 1/2"Ø drive shaft Example: CD46-OB-0X-12X18 CD46 steel control damper, opposed blade, no flange, standard horizontal construction, 12"W x 18"H