

# LOW LEAKAGE CONTROL DAMPER STEEL • STANDARD PERFORMANCE MODELS: 1010 & 1020 WITH CR ROUND TRANSITIONS OPTION

The 1010CR/20CR Series are Nailor's most widely used low leakage multi-blade dampers in a low leakage casing with round transition collars and are the standard choice for use in the majority of commercial HVAC systems. They meet the frequently specified leakage criteria of less than 10 cfm per sq. ft at 4" w.g. (0.5% at 2000 fpm).

### **STANDARD CONSTRUCTION:**

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Frame:	5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized
	steel hat channel with die-formed corner
	gussets. Low profile (flat top and bottom) on
	dampers 10" (254) high and under.
Blades:	6" (152) wide on 5 1/2" (140) centers. 16 ga.
	(1.6) galvanized steel vee groove design.
	Parallel or opposed action.
Linkana	
Linkage:	Concealed type totally enclosed within the
	frame and out of the airstream. Plated steel.
Bearings:	1/2" (13) dia. Celcon <sup>®</sup> .
Axles:	1/2" (13) dia. plated steel double bolted to
	blades.
Drive Shaft:	6" (152) long x 1/2" (13) dia. rigid drive shaft.
Blade Seals:	Dual durometer bulb type extruded PVC.
Jamb Seals:	Compression type cambered metal.
Casing:	Up to 36" x 36" (914 x 914) 20 ga. (1.0)
-	galvanized steel.
	36" x 36" (914 x 914) and up 18 ga. (1.31)
	galvanized steel.
	5
	Casing is tack-welded and caulked against
	leakage.
Temperature Ra	<b>ange:</b> $-50^{\circ}$ E to $\pm 180^{\circ}$ E ( $-46^{\circ}$ C to $\pm 82^{\circ}$ C)

**Temperature Range:** -50°F to +180°F (-46°C to +82°C).

#### Sizes (Duct Dia.):

Minimum		Maximum		
Single	Section	Single Section	Multiple Section	
Single Blade (parallel) 4" (102) dia.	Two Blades (parallel or opposed) 8" (203) dia.	46" (1168) dia.	n/a	

### **OPTIONS:**

## **BO** Oilite bearings

- 304 Stainless Steel construction
- Other

Nailor offers a wide selection of pneumatic and electric actuators for factory or field installation.

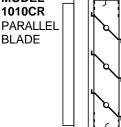
#### Performance Data - Air Leakage (Damper Closed)

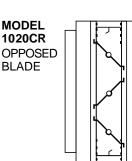
	Maximum	Maximum	Leakage*		
Damper Width	System Pressure	System Velocity	% of Max. Flow	Cfm/ Sq. Ft.	
48" (1219)	2.5" w.g.	2000 fpm	.18	3.5	
36" (914)	3.0" w.g.	2000 fpm	.20	4.0	
24" (610)	4.0" w.g.	2000 fpm	.23	4.5	
12" (305)	5.0" w.g.	2000 fpm	.33	6.6	

Leakage information is based upon a pressure differential of 1" w.g. tested per AMCA Standard 500-D, Fig. 5.5.

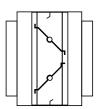
SCHEDULE TYPE:	Dimensions are in inches (mm).			nm)
PROJECT:				
ENGINEER:	DATE	<b>B SERIES</b>	SUPERSEDES	DRAWING NO.
CONTRACTOR:	12 - 4 - 12	1000	6 - 30 - 04	1000-3

DUCT SIZE + 2" (51) 0 (229) CCW TO OPEN DUCT SIZE + 2" (51) SEALED SHEET METAL CASING DUCT MOUNTING COLLAR DUCT SIZE - 1/4" (6) -<sup>1</sup> 1/2" (38) MODEL 1010CR 1020CR OPPOSED PARALLEL





The low profile frame illustrated is used to maximize free area available on units 10" (254) high and under.



#### Pressure Drop (in. w.g.)

Damper Size	Approach Velocity (fpm)			
Dumper Oize	750	1000	1500	2000
24" x 24" (610 x 610)	.016	.030	.07	.14
36" x 36" (914 x 914)	.013	.023	.05	.09
48" x 48" (1219 x 1219)	.010	.020	.03	.07

Tested per AMCA Standard 500-D, Fig. 5.3.

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.