

MANUAL BALANCING DAMPER

STEEL • STANDARD PERFORMANCE

MODELS: 1810 & 1820 WITH CR ROUND TRANSITIONS OPTION

The 1810CR/20CR Series are Nailor's manual balancing dampers in a low leakage casing with round transition collars and are suitable for use in the majority of commercial low to medium pressure and velocity HVAC systems at an economical cost. Model 1820 with opposed blade action is recommended for the majority of applications.

STANDARD CONSTRUCTION:

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.

6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) Blades:

galvanized steel vee groove design. Parallel or

opposed action.

Linkage: Concealed type totally enclosed within the frame

and out of the airstream. Plated steel.

1/2" (13) dia. Celcon®. Bearings:

Axles: 1/2" (13) dia. plated steel double bolted to blades. Drive Shaft: 6" (152) long x 1/2" (13) dia. rigid drive shaft. Up to 36" x 36" (914 x 914) 20 ga. (1.0) galvanized Casing:

36" x 36" (914 x 914) and up 18 ga. (1.31)

galvanized steel.

Casing is tack-welded and caulked against

leakage.

Temperature Range: -50°F to +250°F (-46°C to +121°C).

Sizes (Duct Dia.):

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

OPTIONS:

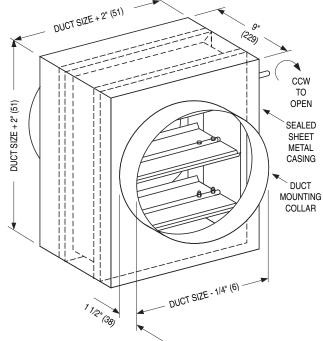
- BO Oilite bearings
- ☐ 304 Stainless Steel construction
- ☐ **HLQ** Hand-locking quadrant
- ☐ HL2 Hand-locking quadrant with 2" (51) stand-off bracket

Other

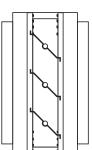
PERFORMANCE:

Dampers are designed to operate in a clean, dry environment. For proper operation, dampers must be installed without racking. The hand quadrant must be installed on the indicated drive blade.

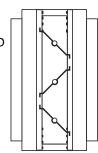
Models 1810/1820 with CR - Max. Performance Ratings					
Maximum Face Velocity	2000 fpm (10 m/s)				
Maximum System Pressure	2.5 in. w.g. (625 Pa)				



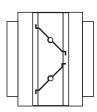




☐ MODEL 1820CR **OPPOSED BLADE**



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



SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:	Dimensions are in inches (min).			
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	12 - 4 - 12	1800	1 - 8 - 07	1800-4