



MODEL SCD-LL-57 LOW LEAKAGE STEEL CONTROL DAMPER

Standard Construction:

Frame: Roll-formed galvanized steel hat-section with staked corners with integral bracing.

Blades: 16-18 ga. triple-vee profile
Roll-formed, galvanized steel
Minimum width: 4.250" (108 mm)
Maximum width: 7.250" (184.2 mm)

Bearings: Nylon. Press-fit into frame.

Axles: Square, plated steel.

Seals: Pressure sensitive, 250°F dual durometer blade edge seals and flexible metal jamb seals.

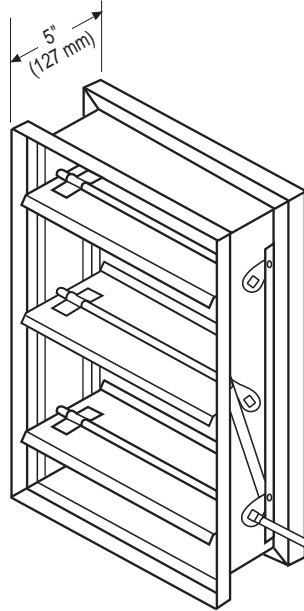
Linkage: Concealed in frame. Linkage bars are 12 ga. thick galvanized steel.

Finish: Mill galvanized.

Extended Shaft: Removable, 6" long x 1/2" dia. (152 mm x 12.7 mm) plated steel coupled to square axle.

Max. Temperature: 250°F

Sizes: Minimum size: 5" w x 5" h (127 mm x 127 mm)
Maximum size: Single section - 48" w x 72" h (1219 mm x 1829 mm)
Multiple section - size unlimited



Options:

Bearings: Bronze Oilite.
Press fit into frame.

Notes:

- Dampers fabricated 1/4" (6.4 mm) under opening size unless otherwise noted
- All dimensions in () indicate millimeters
Specify parallel or opposed blade action.
- All dampers 32" and over are supplied with Jackshafting. (See Jackshafting & Enclosure submittal drawing for details).

Features

- The SCD-LL-57 series Control Dampers have been designed and tested to provide an extremely tight sealing damper which is cost effective for the majority of HVAC applications. They are generally recommended for face velocities up to 2000 fpm and static pressures to 2.5" w.g. (Note: for systems in excess of 2.5" w.g. contact the factory).

- The SCD-LL-57 series dampers have pressure sensitive jamb and blade edge seals to provide the ultimate in sealing characteristics without unduly increasing torque requirements.

- The SCD-LL-57 series damper's rigid frame and integrally braced corners provide true damper alignment that greatly resists being installed out of square or out of flat. This insures on site performance equal to test results.

- The SCD-LL-57 dampers have been tested per AMCA Standard 500-D with the following results:

LEAKAGE cfm/SQ. FT.	AT 1.0" w.g.	AT 2.5" w.g.	AT 4.0" w.g.
	3.5	5.0	7.0

- SCD-LL-57 is available in either parallel or opposed blade models.

- SCD-LL-57 available as a face and by-pass mixing damper.

- Dampers less than 12" (304.8 mm) in height are furnished with a low profile flat top and bottom to maximize free area.

- Factory installed electric or pneumatic operators are available.

Suggested Specification

Low Leakage Control dampers shall be Model: SCD-LL-57 by NCA Manufacturing. Damper frames shall be of the steel, roll-formed hat-section type with integrally braced corners to reduce racking. Damper blades shall be roll-formed 16-18 ga. galvanized steel for rigidity. Bronze oilite or Nylon bearings shall be press-fit into frame to minimize wear. Linkage shall be of the concealed type to maximize free area. Axles shall be square to prevent twisting. Both blade and jamb seals shall be of the pressure sensitive type for low leakage. Dampers shall be rated for leakage per AMCA 500-D. Leakage shall not exceed 5 cfm/sq. ft. at 2.5" S.P.

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice.

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Project:

Contractor:

Location:

Address:

Architect:

P.O. Number:

Engineer:

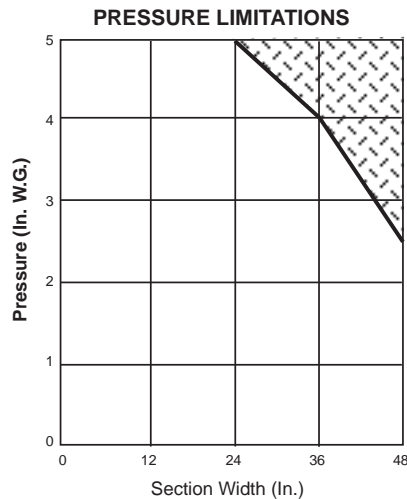
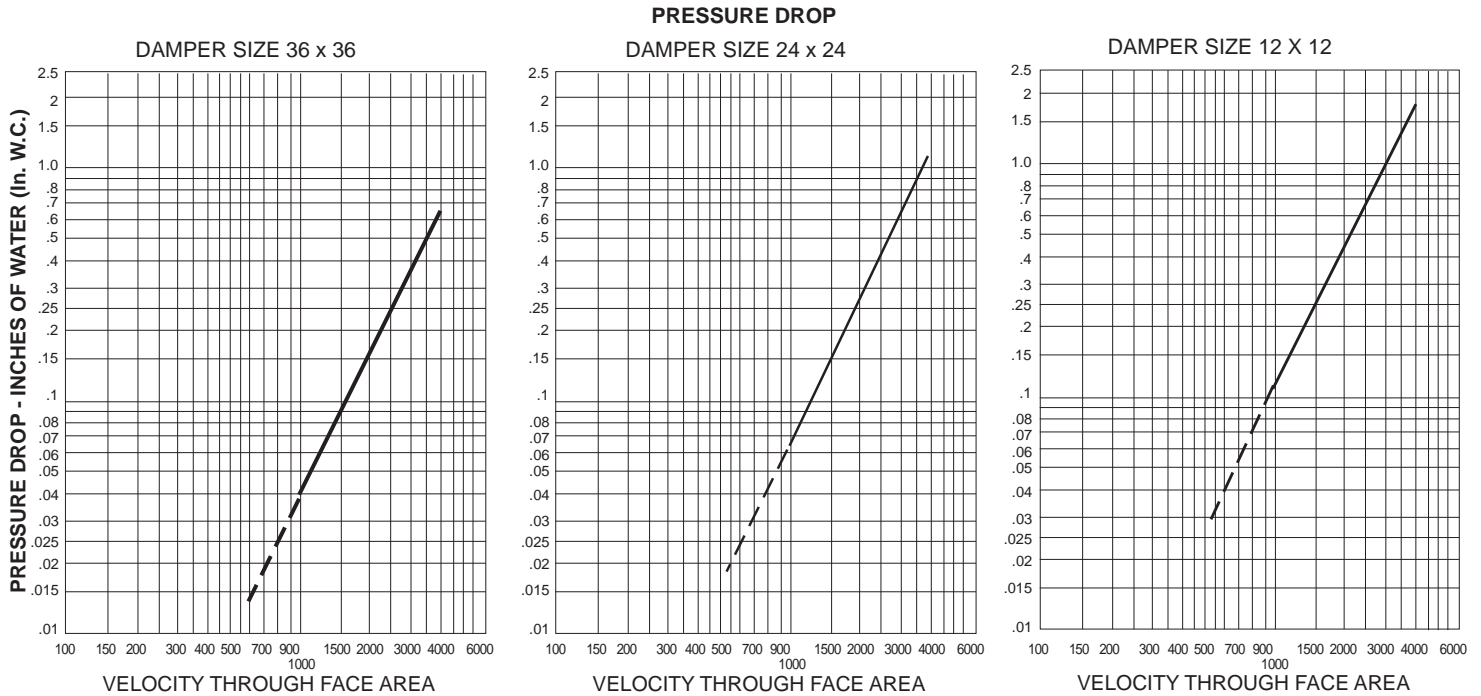
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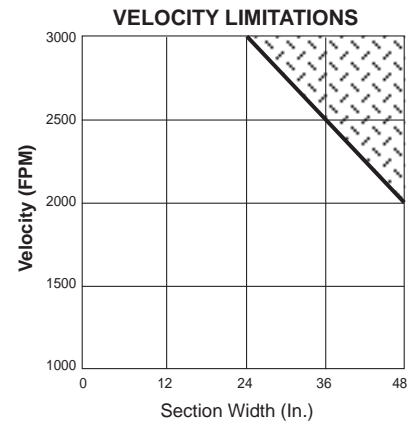
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Pressure drop testing was conducted by an independent laboratory in accordance with the AMCA Standard 500-D, Fig. 5.3 ductwork upstream & downstream

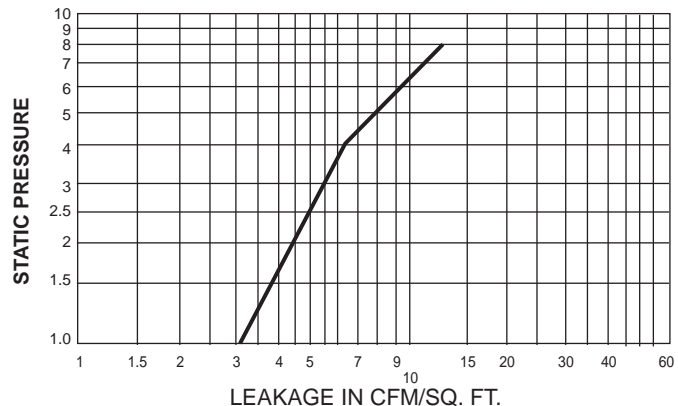


Pressure & Velocity Limitations presented in the adjoining graphs are conservative in order to avoid mis-applications.

Please contact factory for application guidance if your requirements exceed published limitations.



LEAKAGE
DAMPER SIZE 36 x 48



Leakage Performance test was conducted by an independent laboratory in accordance with AMCA Standard 500-D and is expressed as CFM/SQ. FT. of damper face area.

SCD-LL-57 - 02-05