NON-RETURN DAMPER MODEL: NRD



NON-RETURN DAMPER DESIGN & CONSTRUCTION FEATURES



Description

NRD- Non return/pressure relief dampers are designed for use in intake and discharge opening in commercial and residential air conditioning systems.

When the ventilation system is on, the blades of the non-return damper are held in the open position by the airflow.

If the system is switched off, the damper blades close automatically, thus preventing reverse airflow and giving protection against the ingress of untempered air, rain and birds into the air conditioning system.

Construction

Frame:

5" deep (127 mm) deep channel frame 16 gauge (1.5 mm) thick galvanized steel

Blades:

16 gauge to 24 gauge thick galvanized steel

Bearings:

Bronze or brass

Axle:

½" (12 mm) diameter plated steel / square

Linkage:

Plated steel side linkage concealed in frame



Non-Return Damper

Optional Features

- Smooth and maintenance free blade operation.
- The Frame is manufactured from high quality stainless steel/aluminium/galvanized sheet steel of 16 to 20 gauge thickness.
- Blades are made of 1.5mm to 0.7mm thickness galvanized steel sheet or aluminium sheet.
- Blades are fitted with bronze bush for rattle free smooth operation.
- Blades are sealed with neophrene gasket at the bottom to avoid rattling noise and provide air tight operation.

SINGLE SECTION SIZE W X H, inches (mm)	
MODEL	NRD
MINIMUM	6" x 6" (150 x 150)
MAXIMUM	47" x 94" (1200 x 2400)
Multiple sections size: Unlimited "W" (width) and "H" (height) are opening sizes. Dampers are made 6 mm undersized.	

NON-RETURN DAMPER PERFORMANCE DATA

PERFORMANCE DATA:

Pt (Pa): Pressure Drop Vf (m/sec): Air Velocity

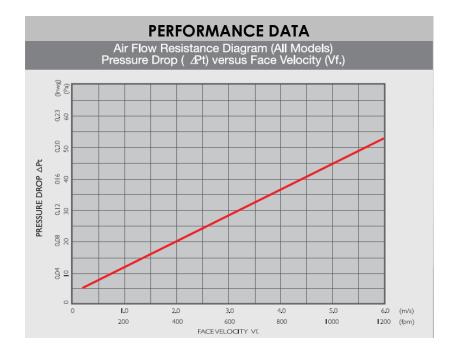
Simply the Air Flow Rate in (L/S) or (CFM) can be calculated using

Any of the following equations:

VCD-2 2 VELOCITY VS PRESSURE DROP

Air Flow Rate in (L/S) = $0.80 \times L(mm) \times H(mm) \times Vf. (m/s)$ 1000

Air Flow Rate in (CFM) = $0.80 \times L(inch) \times H(inch) \times Vf. (fpm)$.





TEST STANDARDS & CERTIFICATION

AMCA

IGC is a member of AMCA and all of our products are under process to get Certification from AMCA.



IGC Aire Dampers

- Commercial Control
- Backdraft
- Manual Balancing
- Barometric Relief
- Fire, Smoke, & Combination Fire Smoke
- Pressure Relief Dampers
- Access Doors

About Us

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