PRESSURE RELIEF DAMPERS
Description
Pressure relief dampers are used in intake and discharge openings in commercial and residential ventilation systems. When the ventilation system is on, the blades of the pressure relief 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 ventilation system.

Standard Construction
Frame:
Gauge 18 (1.2mm thick) formed galvanized steel sheet.

Blades:
100mm maximum width, 0.75mm thick mill finish aluminum sheet. Sealing strip on blades in foam gasket.

Linkage:
Galvanized steel sheet 28mm x 22 Gauge.

Bearing:
Bearing section in plastic, 6mm diameter.

Shaft:
Blade stub shafts in brass.

Minimum Size:
100mm x 100mm (4in x 4in).

Maximum Size:
700mm x 1000mm (W x H) as single section without mullion. 2000mm x 2000mm (W x H) as single section with horizontal and vertical mullions.

Consult SAFID for multiple section assembly details.

PRD 50 - 110
General construction as type PRD 50 - 100 damper but frame and blades are all from mill finish aluminum sheets.

PRD 50 - 120
General construction as type PRD 50 - 100 damper but frame and blades are all from galvanized steel sheets construction with counter weight.

PRD 50 - 130
General construction as type PRD 50 - 100 damper but with frame built of stainless steel sheet type 304, 2B finish.

Air Performance
Pressure Drop
Intake Airflow Direction
PRD 50 - 100

Pressure Drop

![Pressure Drop Graph](image)

Face Area Velocity (FPM X 100)

![Face Area Velocity Graph](image)

SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA Seal for Model PRD 50-100 & PRD 50A-100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance Ratings.

Test Information
Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.4.

Catalog ID: PRD 50 - 100 & PRD 50A - 100, March 11, 2014
SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA Seal for Model PRD 50-100 & PRD 50A-100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance Ratings.

Test Information
Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.4. Catalog ID: PRD 50 - 100 & PRD 50A - 100, March 11, 2014

PRD 50 SERIES [PRD 50 - 100, PRD 50 - 110, PRD 50 - 120, PRD 50 - 130]

Construction: Dimension and Details

1 - Casing  
2 - Blades  
3 - Bearing Section  
4 - Linkage  
5 - Sealing Strip  

WALL MOUNTED PRESSURE RELIEF DAMPER

Construction: Dimension and Details

1 - Casing  
2 - Blades  
3 - Bearing Section  
4 - Linkage  
5 - Sealing Strip

SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA Seal for Model PRD 50-100 & PRD 50A-100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance Ratings.

Test Information
Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.4. Catalog ID: PRD 50 - 100 & PRD 50A - 100, March 11, 2014

PRD 50 SERIES [PRD 50 - 100, PRD 50 - 110, PRD 50 - 120, PRD 50 - 130]
SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA seal for Model PRD 40 - 100 & PRD 50A - 100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance Ratings.

Catalog ID: PRD 50 - 100 & PRD 50A - 100, March 11, 2014

P R D 4 0 - 1 0 0

Description
Pressure relief dampers are used in intake and discharge openings in commercial and residential ventilation systems. When the ventilation system is on, the blades of the pressure relief damper are held in the open position by the air. 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 ventilation system.

Standard Construction
Frame:
Galvanized steel sheet (standard) or aluminum and corrugated aluminum blades (standard) with blade seals opening and closing automatically.

Blades:
100mm maximum width, 1.5mm thick extruded aluminum profile. Sealing strip on blades in foam gasket.

Linkage:
Galvanized steel sheet 15mm x 20 Gauge.

Bearing:
Bearing section in brass, 12mm diameter.

Shaft:
Blade stub shafts in plastic, 6mm x 6mm square.

Minimum Size: 150mm x 100mm (6in x 4in).

Maximum Size: 1000mm x 1000mm (W x H) as single section without mullion.
2000mm x 2000mm (W x H) as single section with horizontal and vertical mullions.

Consult SAFID for multiple section assembly details.

PRD 40 - 110
General construction as type PRD 40 - 100 damper but frame is from mill finish aluminum sheets.

PRD 40 - 120
General construction as type PRD 40 - 100 damper but with counter weight.

PRD 40 - 130
General construction as type PRD 40 - 100 damper but with frame built of stainless steel sheet type 304, 2B finish.

Minimum Size: 150mm x 100mm (6in x 4in).

Maximum Size: 1000mm x 1000mm (W x H) as single section without mullion.
2000mm x 2000mm (W x H) as single section with horizontal and vertical mullions.

Consult SAFID for multiple section assembly details.
SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA seal for Model PRD 40 - 100 & PRD 40A - 100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to Air Performance Ratings.

Test Information: Tested for air performance in accordance with ANSI / AMCA Standard 511 – 2007 (Pressure Drop), Figure 5.4 and 5.5.

Catalog ID: PRD 40 - 100 & PRD 40A - 100, March 11, 2014
Pressure relief dampers are used for intake and discharge openings in ventilation systems to prevent reverse airflow and for protection against ingress of rain into ventilation systems. Basically, the frame is built of galvanised steel (standard) or aluminum and extruded aluminum blades with blade seals opening and closing automatically.
Description
Pressure relief dampers, are used in intake and discharge openings in commercial and residential airconditioning systems. When the ventilation system is on, the blades of the pressure relief damper are held in the open position by the air flow. 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 airconditioning system.

Standard Construction
Frame: Gauge 18 ga. (1.2mm thk.) from formed channel frame galvanized steel sheet.

 Blades: 100mm max. width, 0.75mm thk. mill finish aluminum sheet. Sealing strip on blades in foam gasket.

 Linkage: Galvanized steel sheet 28mm x 22 gauge.

 Bearing: Bearing section in plastic 6mm.

 Shaft: Blade stub shafts in brass.

Minimum Size: 100 x 100mm, damper up to 200mm high are single blade construction.

Maximum Size: 1000 x 1500mm, as single section. Multiple section assembly with unlimited size, where each section operates independently.

Consult SAFID for multiple section assembly details.
Pressure relief dampers are used for intake and discharge openings in air conditioning systems to prevent reverse airflow and for protection against ingress of rain into air conditioning systems. Basically, the frame is built of galvanized steel (standard) or aluminum and corrugated aluminum blades (standard) with blade seals opening and closing automatically.

**Specifications**

Pressure relief dampers are used for intake and discharge openings in air conditioning systems to prevent reverse airflow and for protection against ingress of rain into air conditioning systems. Basically, the frame is built of galvanized steel (standard) or aluminum and corrugated aluminum blades (standard) with blade seals opening and closing automatically.

**Order Reference Details**

**Air Performance**

**Order Example**

Product Type: PRD-30-100 - aaa x aaa

PRD 30 - 100
PRD 30 - 110
PRD 30 - 120
PRD 30 - 130

Sizes

Standard
Make: SAFID
Type: PRD 30 - 100 - 500 x 500
Qty: 1

**Pressure Loss**

**Standard Sizes**

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Catalog ID: PRD 30 - 100 & PRD 30A - 100, March 11, 2014