

# DUX - DuFlow Pressure Relief Vents



## Product Description

The DUX-DuFlow pressure venting device is a unique pressure vent for Chemical Gaseous type Fire Extinguishing systems.

When FM200 (HFC-227) or Novec (FK-5-1-12) is discharged into a risk area, Negative and then positive Pressures are created, these can lead to structural damage should the enclosure be incorrectly vented.

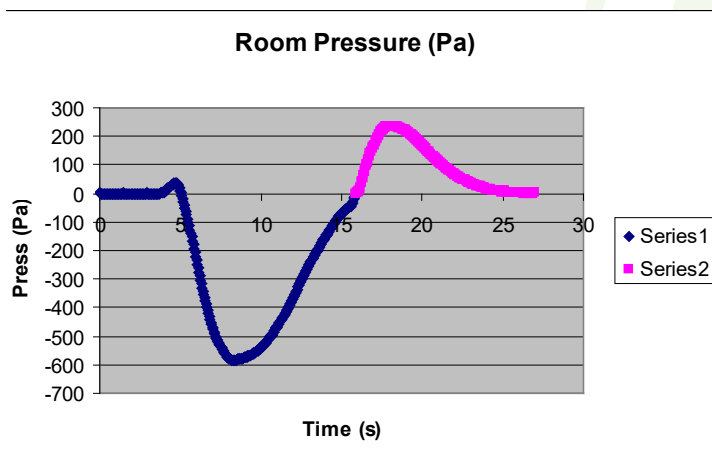
Uniquely the performance has been fully tested and verified by the Building Research Establishment with fully monitored gas discharge tests.



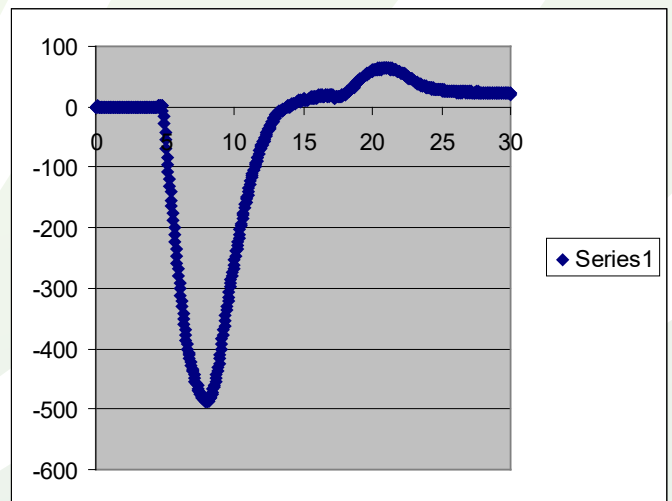
## FEATURES & BENEFITS

- Patent Pending on Unique dual action blades
- Fits into walls from 1mm to 400mm
- Simple to install
- Fully tested in Live FM-200 Discharge tests
- 4 hour fire rating

## Typical discharge curves



FM-200 (HFC-227)



NOVEC 1230 (FK-5-1-12)

# Fire Rating Certification

## EUROPEAN APPROVALS

BS EN 1363-1 Fire Rating

**BRE UK Report No 232889**

- 2 Hour Integrity

**Chiltern International Fire**

**Report No Chilt/IF 10004**

- 4 Hour Integrity

**Chiltern International Fire**

**Report No Chilt/IF 10030**

- 30 Min Insulation

BS EN 13501 - 2 Certification

**Chiltern International Fire**

**Report No Chilt/CF 10030**

- E60 / E130

**Chiltern International Fire**

**Report No Chilt/CF 10004**

- EW120

## US APPROVALS

**UL555 & ASTM E 119-08a**

- 2 hour Integrity

Test Report by Guardian Laboratories USA



# DATA SHEET

FORM NO. 35-PRV-0058

ISSUE NO. B

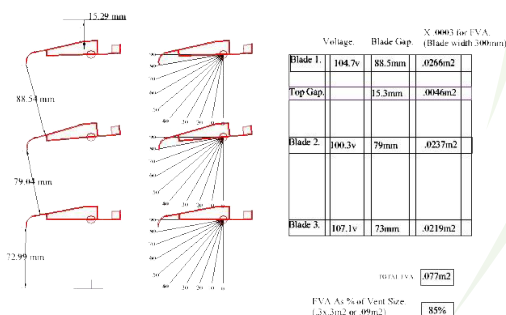
DATE: 24/03/2015

## PERFORMANCE CERTIFICATION

**BRE UK Report No122084**

AFP undertook the development of a pressure venting test protocol using a series for live gas discharge tests with Inert Gases and Chemical Clean Agents to set the standard for pressure venting performance. These tests were witnessed and verified by the world renowned UK Building Research Establishment (BRE). This work also led to a major improvement in venting calculation formulas using our Dynamic Co-efficient. Which is the first and lowest worldwide.

Blade Positions at Peak Pressure of 251 Pa.  
As shown on SHX 300 GDD data logging sheet.  
At 13.48.29.845



Unit Size	Negative Free Vent Area (FVA) M <sup>2</sup>	Positive FVA M <sup>2</sup>
DUX300	0.077	0.045
DUX500	0.212	0.125
DUX700	0.424	0.25

# SPECIFICATIONS DUX300, DUX500 & DUX700

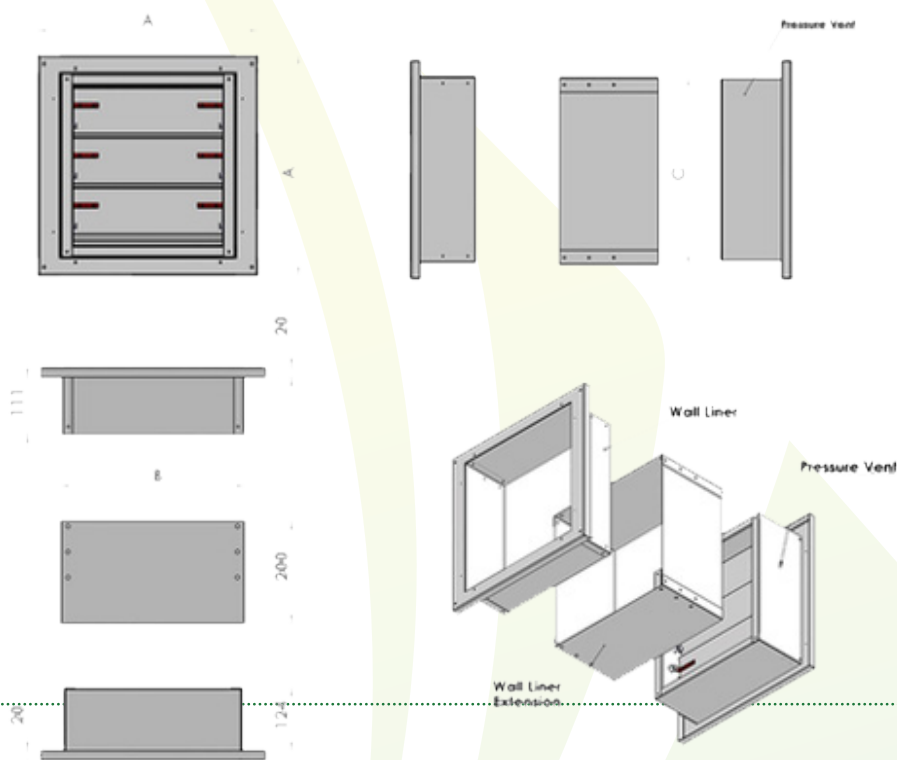
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Product Code	DUX300	DUX500	DUX700	DUX1000
Neg Free Vent Area	<b>0.077m<sup>2</sup></b>	0.212m <sup>2</sup>	0.416m <sup>2</sup>	0.85kg
Pos Free Vent Area	<b>0.047m<sup>2</sup></b>	0.128m <sup>2</sup>	0.308m <sup>2</sup>	0.556m <sup>2</sup>
Width/Height/Depth	<b>440x440x140mm</b>	640x640x140mm	820x820x120mm	1120x1120x120mm
Hole cut out	<b>365x380mm</b>	560x580mm	760x750mm	1060x1050mm
Weight	<b>15kg</b>	25kg	33.5kg	54kg



## ACCESSORIES

Due to the fact that the DUX-DuFlow vent will open inwards first on discharge, the exp louvre is always open to cater for negative and positive pressures.

If a permanent seal is required on the external wall then we suggest reviewing the need for an ARC Seal weather louvre.



## RETROTEC INTEGRITY TESTING VENT CALIBRATION

The unique Interlocking Aerofoil balanced weight blade system provides a high performance level to enable the vents to be calibrated when installed. The latest Retrotec Testing software provides this ability and has led to close alliance with Retrotec worldwide.

