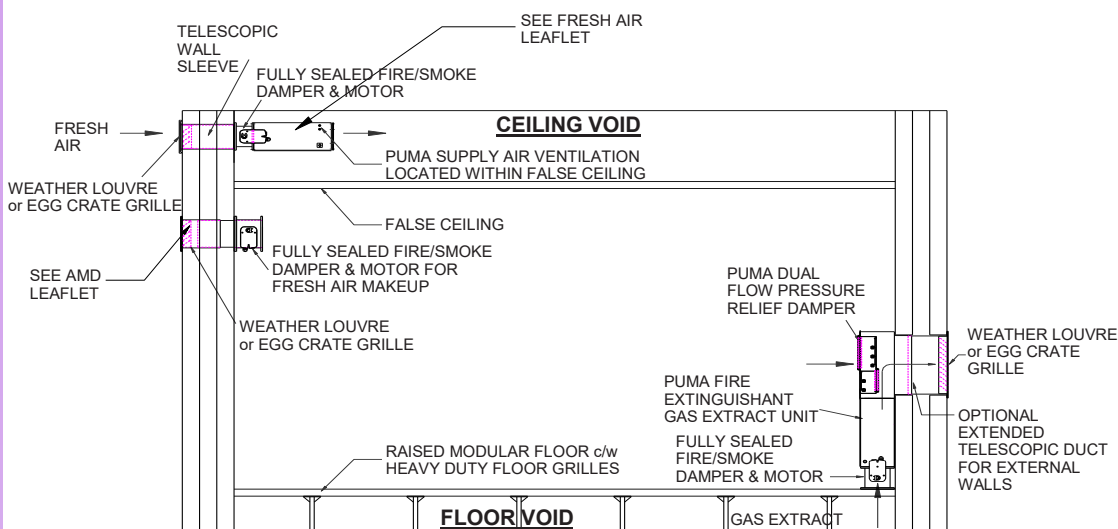




# Combined Fire Extinguishant Extract and Novec 1230 Gas Dual Flow Pressure Relief Damper (DF PRD)

Complies to BS ISO 14520-1: 2015 and 15004-1: 2019  
2 Hour Fire Rated to BS EN 1634-1 2014. Fire Classification to BS EN 13501 - EW-120

## Typical Layout of Extinguishant Gas Extract & Dual Flow Pressure Relief Damper



External View

Rooms or Enclosures utilising Gaseous Extinguishing Systems such as Novec 1230, FM 200 and FE-13 require OVER & UNDER pressure relief and positive extract in the event of a discharge. The PUMA range of Combined Fire Extinguishant and Dual Flow Pressure Relief Dampers are designed specifically for that purpose.

The NINE individual models have been designed by matching the closest Free Vent Area Pressure Relief Damper to the most appropriate Gas Extract Fan Unit. The Fire Smoke Damper and Pressure Relief Dampers have been tested by Exova Warrington to BS EN 1634 - 1 2014 - Rated at 2 Hours. All PRD's have Classification to BS EN 13501 EW - 120.

The PUMA Combined FE / DF PRD Units provide positive Free Vent Areas between 0.021 m<sup>2</sup> and 0.381 m<sup>2</sup> and Airflows of 0.1 m<sup>3</sup>/Sec to 1.72 m<sup>3</sup>/Sec @ 50 Pa External Static Pressure.

A full table of the entire range is shown on the reverse page.

### DUAL ACTION & FUNCTION

The Combined Fire Extinguishant Extract Unit and Pressure Relief Damper incorporates the safety aspects of Pressure Integrity, Fire Integrity and Air Integrity.

The combination of an efficient high pressure fan and Fire/Smoke Damper will protect the room from Under and Over pressure and provide effective ventilation post gas discharge.

The precision engineering, proven design and fully tested products, combine to provide dual function, requiring only one wall opening or cut-out.

### QUALITY SOLUTIONS

All Combined FE / DF PRD Units are fitted with a Fire Rated Pressure Relief Damper, Fire/Smoke Damper and 240V actuator, Direct Driven Fan & Motor assembly, Wall Mounting Plenum, Telescopic Duct and External Weather Louvre c/w Bird Screen.

### QUALITY FINISH

All products are manufactured from Zintec Steel and polyester powder coated to RAL 9010 White - Special colours are available on request

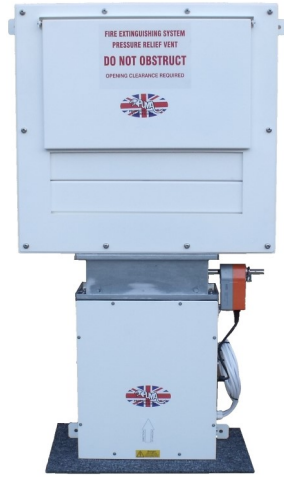




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### Puma™ Products - innovation - design - quality



Internal View Showing DF PRD and FE Unit

Puma Fire Products Limited™ has supported the specific requirements of the Data Hall - Server Room - Electronic Data Processing Environment for over 35 years. Located in the South of England, we at Puma are widely recognized as experts in the field of air movement. Our knowledge and expertise have developed many products - such as Fresh Air Supply and Fire Extinguishant Gas Extract Systems, incorporating Fire/Smoke Dampers. In 1984 we developed the first bespoke range of Fire Extinguishant Gas Extract Units, then in 1999 we developed the first Fire Rated Pressure Relief Dampers to relieve the 'Pulse' pressure spike on the release of high pressure Inert Gas Systems - The advent of sealed rooms and integrity testing created the need for the **COMBINED FIRE EXTINGUISHANT GAS EXTRACT** and **PRESSURE RELIEF DAMPER**

#### TECHNICAL SUPPORT

PUMA can offer a wealth of experience in sales, application and technical support  
Using the latest CAD design software we can provide detailed drawings in dxf or pdf formats

#### 3RD PARTY TESTED

BS EN 13030:2001 - Airflow Test  
BS EN 1751:2014 - Leakage Test  
BS EN 1314-1 - Free Area Calcs

#### SERVICES AVAILABLE

- Technical Support
- Application Support
- Fitting Instructions
- 12 Month Warranty for Fan
- 6 Year Warranty for PRD

#### BESPOKE SOLUTIONS

Puma Fire Products operate a continuous design and improvement policy and reserve the right to change designs and specifications without notice

#### CONTACT DETAILS

For more information on any of our products or services please visit us on the Web at:  
www.pumaproducts.co.uk  
Telephone + 44 (0)1264 333305  
sales@pumaproducts.co.uk



### Nine Models Available refer to Technical Data Sheet for Dimensions etc.

Model Number	Airflow @ 50 Pa m³/s	Running Current @ 230 V ac 1PH 50Hz
FE 250 S MK3	0.1	0.46 A
FE 350 S MK3	0.14	0.77 A
FE 250/600	0.26	1.2 A
FE 300/700	0.34	1.49 A
FE 300/1400	0.64	7.6 A
FE 350/850	0.4	1.9 A
FE 350/1200	0.57	3.3 A
FE 400/1800	0.78	4.2 A
FE 550/3600	1.72	4.3 A

Model Number	Free Vent Area m² Over Pressure	Free Vent Area m² Under Pressure
DF PRD 150/300	0.010	0.031
DF PRD 300/300	0.020	0.062
DF PRD 450/300	0.030	0.093
DF PRD 450/450	0.030	0.154
DF PRD 600/450	0.041	0.206
DF PRD 750/450	0.051	0.257
DF PRD 675/675	0.092	0.324
DF PRD 825/675	0.113	0.396
DF PRD 975/675	0.134	0.468

