

Puma™

# Combined Fire Extinguishant Extract And Inert PRD

Complies to BS EN 14520: 2006 and 15004-1:2008

Fire Classification to BS EN 13501-2 - EW120

## 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 a Fire/Smoke Damper, will protect the room and provide effective ventilation, post gas discharge.

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

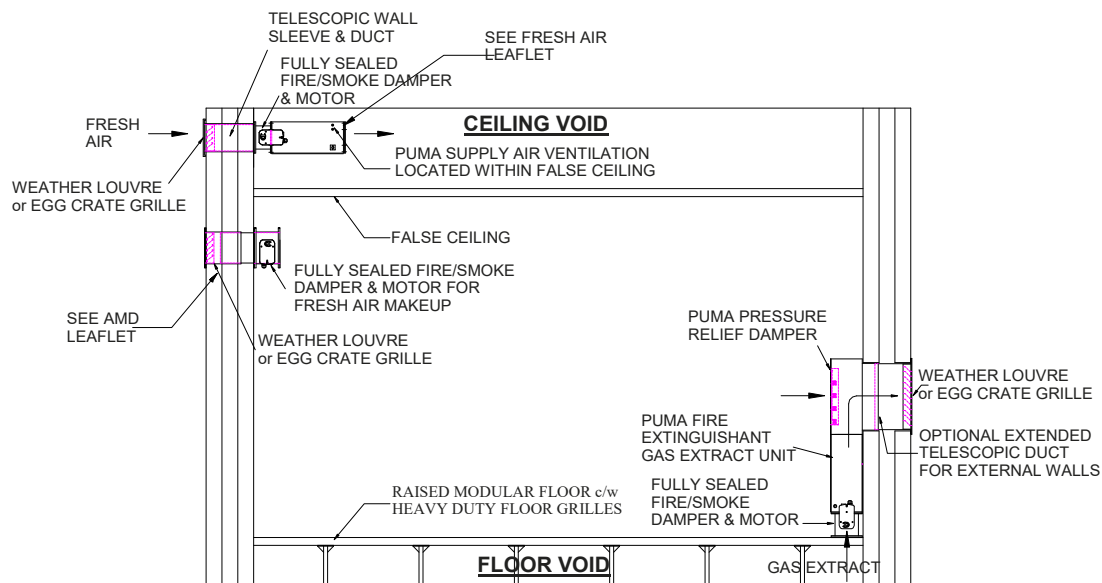
## QUALITY SOLUTIONS

All Combined FE / 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

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



External View Showing Weather Louvre

The PUMA Combined FE / PRD Units provide Free Vent Areas between 0.021 m<sup>2</sup> and 0.87 m<sup>2</sup> and Airflows of 0.1 m<sup>3</sup>/Sec to 2.1 m<sup>3</sup>/Sec @ 50 Pa External Static Pressure. A full table of the entire range is shown on the reverse page.

Rooms or Enclosures utilising Gaseous Extinguishing Systems such as Inergen, Argon and Nitrogen, require Over Pressure relief and positive extract in the event of a discharge. The PUMA range of Combined Fire Extinguishant and Pressure Relief Dampers is designed specifically for this purpose.

The TWELVE 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 Damper have been tested by Exova Warrington to BS EN 1634 -1:2008 - Rated at 2 Hours. All PRD's have Fire Classification to BS EN 13501-2 - EW120.



ISO 9001:2008  
Certificate Number: 1206 Issue:01



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## Puma™ Products - innovation - design - quality



Internal View Showing PRD and FE Unit

Puma Products Limited™ has supported the specific requirements of the Data Hall - Server Room - Electronic Data Processing Environment for over 30 years. Located in the South of England, we at Puma are widely recognized as experts in the field of air movement. Using our knowledge and expertise, we 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, followed in 1999 by the development of the first Fire Rated Pressure Relief Dampers, to relieve the Over 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**

### Twelve Models Available refer to Technical Data Sheet for Wall Cut-out sizes etc.

#### 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
- Installation and Setup
- Maintenance
- Application Support
- Fitting Instructions
- 6 Year Warranty PRD
- 1 Year Warranty Fan

#### BESPOKE SOLUTIONS

Puma Products operates a continuous design and improvement policy, and reserves 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](http://www.pumaproducts.co.uk)

Telephone + 44 (0)1264 333305

[sales@pumaproducts.co.uk](mailto:sales@pumaproducts.co.uk)

Model Number	Airflow @ 50 PA m <sup>2</sup> /s	Running Current @ 230 V ac 1PH 50Hz	Dimensions in mm		
			D	W	H
FE 250 S MK3	0.1	0.46 A	154	340	510
FE 350 S MK3	0.140	0.77 A	154	340	510
FE 250/400	0.2	0.8 A	250	500	660
FE 250/600	0.26	1.2 A	250	500	660
FE 300/700	0.34	1.49 A	300	500	760
FE 300/1400	0.64	7.6 A	300	500	760
FE 350/850	0.4	1.9 A	350	600	860
FE 350/1000	0.48	2.3 A	350	600	860
FE 400/1800	0.78	4.2 A	415	600	860
FE 450/2500	1.2	6.8 A	450	650	860
FE 550/3600	1.72	4.3 A**	550	800	1060
FE 550/4500	2.05	4.6 A**	550	800	1060

\*\* 380/415V ac Three Phase Motor

Selection example: FE 300/700 - PRD 525. Depth = 300mm Width = 695mm Height = 1380mm

Model Number	Free Vent Area m <sup>2</sup>	Dimensions in mm	
		W	H
PRD 150	0.02	340	340
PRD 225	0.04	425	425
PRD 300	0.079	500	500
PRD 375	0.124	575	575
PRD 450	0.178	620	620
PRD 525	0.252	695	695
PRD 600	0.317	770	770
PRD 675	0.42	845	845
PRD 750	0.515	900	900
PRD 825	0.622	975	975
PRD 900	0.713	1050	1050
PRD 975	0.87	1125	1125



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