



Arc Explosion Pressure Relief for Switch Rooms



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“Protect your switch room with SHX Blast Relief Vents, 100% efficient, blast tested and universally approved”

THE ULTIMATE PRV

The New HIGH-X 100 SHX:

- 100% Efficient at 95.5 Pascal's
- Fully opens in less than 15 milliseconds
- Performance Tests Verified By BRE
- Blast Tested to 5 Bar
- Fully Resettable
- Full European and US Fire Test Approval
- New Improved Design
- Patent Pending

The explosive nature of an electric arc has been documented in a number of case studies. The intense heat from an arc flash causes sudden expansion of air resulting in a blast and the associated pressure waves and the resulting explosions rival that of explosive substances. Energies produced by arc flash explosions have been known to propel large objects such as switchboard doors, bus bars and personnel several metres at very high speeds. As an example of an arc blast, a 50kA arcing fault will produce a pressure of approximately 10kPa, 1 metre from the arc location.



The average construction strength of switch room walls is only around 0.5 kPa and is therefore subject to catastrophic damage when subjected to the full pressure of an arc explosion.

The SHX pressure relief vent is specifically designed for installation in external walls of electrical switch rooms to relieve overpressure caused by arc explosions.

This remarkable new leap forward in the world of Blast venting is the only pressure relief vent to have undergone thorough live tests witnessed and verified by BRE (Building Research Establishment) Fire and Security. No other vent on the market has third party verification.

The SHX series of pressure relief vent is Fire Rated to EN 1363-1 to 4 hour and to UL555 for 2 hours.

PRESSURE RELIEF VENT COMPONENTS

Internal Kit

This is to fit walls that do not need weather proofing.

SHX-UN - is for internal walls and consist of:

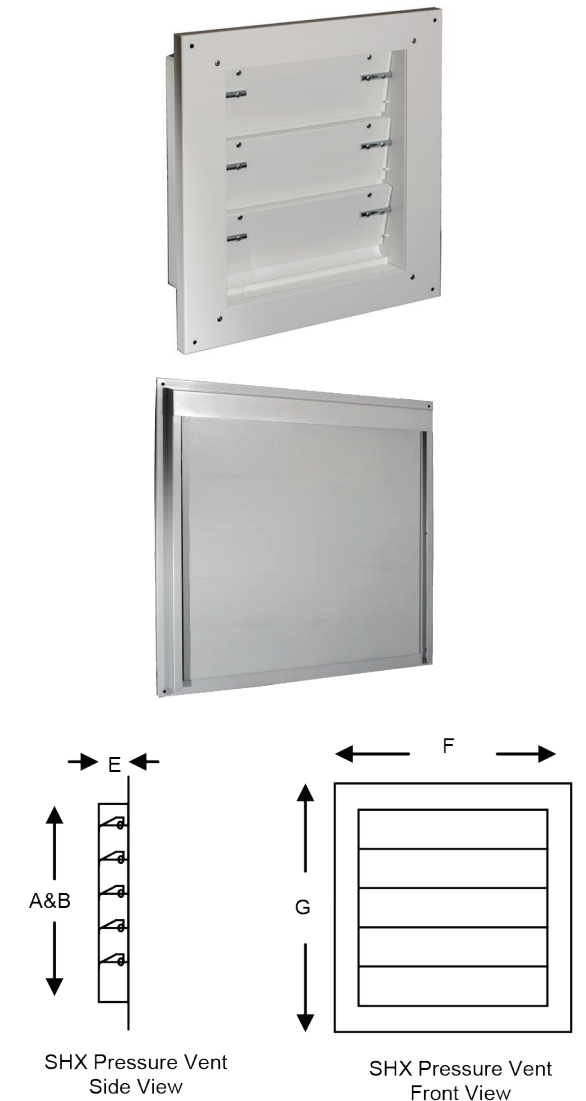
- One HIGH-X-100 SHX vent
- Wall Sleeve
- Fitting Kit & full fitting instructions

External Kit

DWL Dynamic Weather Louvre is used in addition to the above SHX-UN vent when fitting to an external wall. The Dynamic Weather Louvre is finished in a powder coated white aluminium colour to RAL9006.

Other colours are available.

All kits come with a wall liner to increase fire protection integrity and form a neat finish to the necessary 'cut' hole into which the vent fits.



SPECIFICATIONS

Vent Size	300	500	700	1000
A (Width)	340	540	740	1040
B (Height)	350	550	750	1050
E	120	120	120	120
F	415	615	815	1115
G	415	615	815	1115
Flange Size	50	50	50	50
Unit Weight	12kg	19kg	34kg	53kg
Hole Cut Out Size	360 x 380	560 x 580	760 x 780	1060 x 1050

**100%
Efficient**
at 95.5 Pascal's

PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore
Vapour Mitigation

Support Services



Design / Engineering
Technical Support
Services & Testing

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