COXDOME

DRIVEN BY DAYLIGHT

SHEV SMOKE SYSTEMS

For the essential flow of smoke and hot air out of a building in the event of fire – certified to EN12101-2

COXDOME SHEV SYSTEMS

In the event of a fire, the greatest immediate danger to the occupants of a building, comes from smoke, not heat. Even a small fire can fill a large building with smoke very rapidly, hindering vision, blocking escape routes and causing smoke inhalation.

Automatic Smoke Heat Exhaust Ventilation (SHEV) is the recognised solution.

SHEV systems are an essential component of any building's fire protection design concept. In case of fire, SHEV systems create and maintain a smoke-free layer above the floor by removing smoke. Simultaneously, they exhaust hot gases released by a fire in the developing stages.

Their value in assisting with the following, is firmly established:

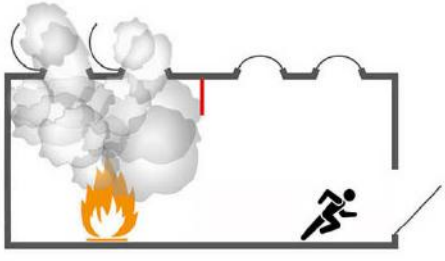
- Evacuation of people from buildings and other construction works
- Reduction of fire damage and financial loss by preventing smoke damage
- Facilitation of firefighting, by improving visibility, reducing roof temperatures and retarding spread

THE PRINCIPAL OF SMOKE VENTILATION USING SHEV SYSTEMS

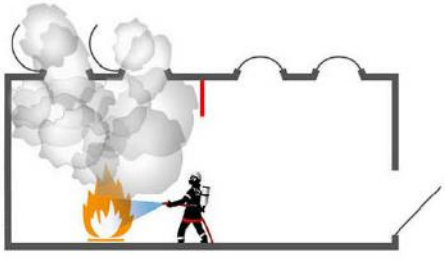
High-level outlet vents and low-level inlet vents open automatically in the event of a fire, allowing cool air into the building and allowing smoke and hot air to flow out.

In the absence of ventilation, smoke fills the room, being drawn back down from the ceiling by convection as temperatures rise.

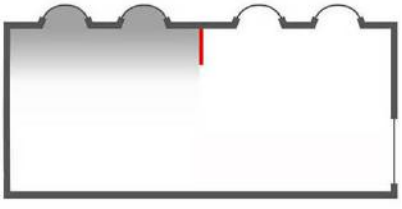
This leads to potential - and highly dangerous - 'flashover'.



1. SHEV opens immediately and aids evacuation



2. Safer and easier to fight fire



3. Damage is avoided or contained

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Coxdome SHEV systems provide a smoke and heat exhaust ventilation solution for all commercial and residential applications.

Supplied factory assembled and factory tested, all products are certified to EN12101-2. SHEV systems not only help to provide smoke extraction the event of a fire but they also provide day-to-day controllable ventilatior

Available in a wide range of sizes, the Coxdome SHEV range complies w the latest Building Regulations on Fire Safety and can be integrated into any Building Management System.

Linked to a central control panel, complete with battery backup in case of mains failure, the control panel can be triggered from either manual override switches local to the ventilator and the ground floor by dedicated smoke detectors, or by interfacing with a third party smoke detection/fire alarm system.

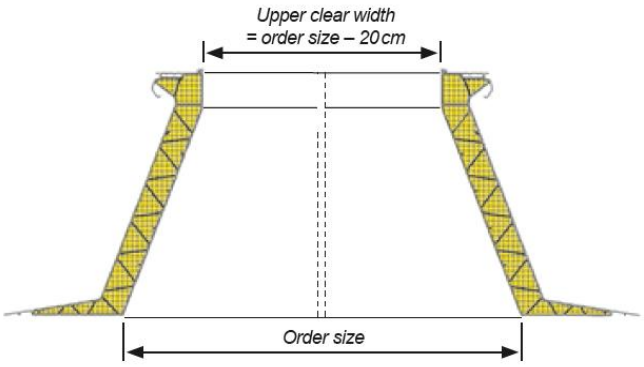
Available with CLEAR or OBSCURE polycarbonate glazing to enhance the building's natural daylight, or with a fully insulated ALUMINIUM solid cover.

2 SPECIFICATION OPTIONS:

- 300mm splayed kerb in PVC-u
- 160mm vertical kerb in PVC-u

Rooflight Size	AOV Range 140°
1000 x 1500mm	•
1000 x 1800 mm	
1000 x 2000mm	
1000 x 2400mm	
1000 x 2500mm	
1100 x 1400mm	
1200 x 1200mm	•
1200 x 1500mm	•
1200 x 1800mm	•
1200 x 2100mm	•
1200 x 2200mm	•
1200 x 2400mm	•
1200 x 2500mm	•
1200 x 2700mm	•
1200 x 3000mm	
1300 x 1300mm	
1400 x 1400mm	
1500 x 1500mm	•
1500 x 1800mm	•
1500 x 2500mm	•
1500 x 2700mm	•
1500 x 3000mm	•

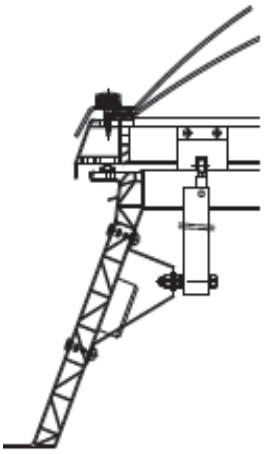
Showing 300mm splayed upstand



AUTOMATIC OPENING VENTS

Opening to 140º, the system offers maximum ventilation. The actuators operate from a 24V DC supply and polarity can be reversed to allow the open and close facility.

- 24V DC actuators
- Fully open in under 60 seconds
- Snow load 300N/m²



TECHNICAL SPECIFICATION

- EN12101-2 certified
- Available from 1000x1500mm to 1500x3000mm
- Opens to 140º
- Galvanised steel mechanism
- Glazed polycarbonate or solid aluminium cover
- Optional day-to-day ventilation position with no additional motor
- Extremely low noise level
- Compact 24V motor unit
- Aerodynamic free area up to Aa2.74m^2
- Snow load up to 2400N/m²
- Wind load up to 1500N/m²
- Low ambient temperature T(-15°)
- Heat exposure B300
- Reaction to Fire Class E
- Opening speed <60 secs

COXDOME®

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SHEV ACCESSORIES

Safety Fall Grid

For use with Coxdome SHEV smoke systems

Control Panels

Break Glass

Wind and Rain Sensor

Smoke Detector

CO_2 Detector

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COXDOME SHEV ACCESSORIES

- Safety fall grids
- 24V / 48V control panel with battery backup
- Emergency break glass push button
- Wind and rain sensor
- Wind deflector
- Smoke detector
- CO_2 detector
- Open/close operation for ventilation
- Safety anchor points

48V vs 24V SYSTEM

The Coxdome SHEV range can also be specified as a 48V system. This option can provide many additional benefits to multi-unit applications:

Improved performance

- Less voltage drop between multiple units
- Increased power in the event of heavy snow loads

Cost reductions

- Each 48V control panel will operate double the number of SHEV units
- Reduction in cable cross-sectional size
- Significant reduction in installation

CONTROL PANELS

Item No.	Fixed
216119	SVM 24V-5A BASIC
216219	SVM 24V-5A COMFORT
216317	SVM 24V-5A FIRE
216417	SVM 24V-5A COMFORT & FIRE
217119	SVM 24V-8A BASIC
217219	SVM 24V-8A COMFORT
217317	SVM 24V-8A FIRE
217417	SVM 24V-8A COMFORT & FIRE
218219	SV 24V-24A-DS
218269	SV 24V-30A-DS
218319	SV 24V-32A-DS
218419	SV 48V-8A-DS
218519	SV 48V-24A-DS
218569	SV 48V-30A-DS
218619	SV 48V-32A-DS

ACCESSORIES

Item No.	Fixed
111729	Firemans Priority Switch
111790	Breakglass
111724	Breakglass (Outdoor use)
111730	Wind & Rain Sensor 24V
111740	Smoke Detector
111735	Heat Detector
111778	Room Thermostat
111760	Weekly Timer
111753	Comfort Switch (open/close)
	Safety Fall Grids
	Wind Deflectors