

## AIR TRANSFER GRILLES

## LVH20S

## HIGH PERFORMANCE VISION FIRE + SMOKE AIR TRANSFER GRILLE

The LVH20S air transfer grille is a unique combination of intumescent slats to provide two hour fire resistance and excellent insulation properties together with a servo powered set of shutter plates that control cold and warm smoke. Ideal for low velocity air handling systems, it can be operated as a stand-alone unit or in multiple units. It can be interfaced with a fire alarm panel through the Lorient Talkback damper control system.

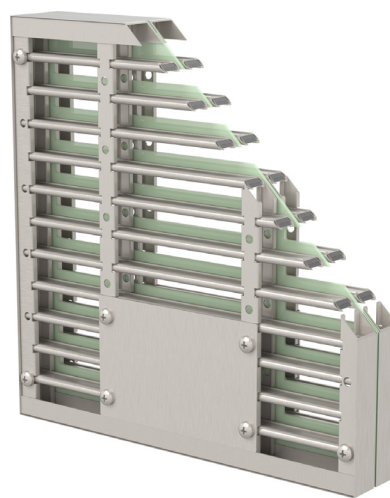
## Key benefits

- ▶ Contains cold smoke + toxic gases remote from source of fire
- ▶ Simple installation
- ▶ Auto reset + fail-safe
- ▶ Safe low DC voltage
- ▶ Status reporting + auto-cycling via Talkback Damper Control Monitor (DCM)
- ▶ Optional audio warning facility
- ▶ Connects to fire panel +/- BMS
- ▶ BMS alarm notification via Alarm Monitoring System (AMS)
- ▶ Nominal 5mA current open/closed
- ▶ Max 200mA in operation
- ▶ Allows bi-directional airflow.

## STANDARD SIZES AVAILABLE (MM)

WIDTH	198	248	298	348	398	448	498	548	598
HEIGHT	198	248	298	348	398	448	498	548	598

Other non-standard sizes may be available – please ask for details.



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## SYSTEM SPECIFICATIONS

## Test evidence

- ▶ Fire: AS1530.4:2014.
- ▶ Fire: BS 476-20:1987.
- ▶ Fire: BS EN 1364-5:2017.
- ▶ Smoke: BS 476-31.1:1983 (shutterplate).

## Performance

- ▶ Can be used to provide up to 120 minutes resistance to fire + cold smoke.
- ▶ May provide 30mins insulation when used in conjunction with a cover grille.

## Size

- ▶ Width: 200mm – 600mm (in 50mm increments).
- ▶ Height: 200mm – 600mm (in 50mm increments).
- ▶ Other non-standard sizes may be obtained by arrangement.
- ▶ Square and rectangle options available.

## Thickness

- ▶ 47mm.

## Free area

- ▶ Approx 30% free area.

## Application

- ▶ Steel uninsulated doors, walls and ducts.

## Orientation

- ▶ LVH20S must be used in the vertical plane.

## Material

- ▶ Z275 galvanised steel.
- ▶ Metal slats with an intumescent core.
- ▶ Electro mechanically operated smoke shutter mechanism.

## Finish

- ▶ Silver as standard.

## Fixing

- ▶ Each air transfer grille is manufactured 5mm less than a nominal aperture size to provide clearance when installed in a duct or other aperture of the same nominal dimensions. E.g. a 195mm x 195mm nominal size air transfer grille will suit a 200mm x 200mm aperture.
- ▶ Screwed and bedded in Lorient intumescent sealant.

## Use with

- ▶ Talkback damper control system.
- ▶ Conductor hinges.
- ▶ Optional Alarm Monitoring System (AMS) and battery backup.
- ▶ Optional cover grille.

## Specification