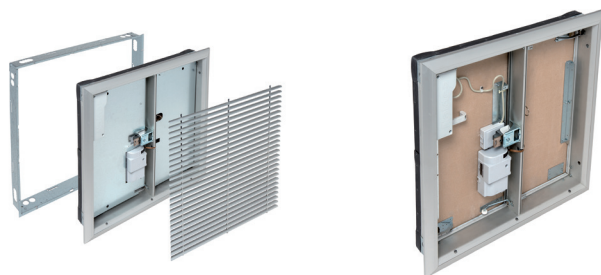


## Volet de désenfumage

11044411

## OPTONE® «+ Grille» 2-flap with choice of options

OPTONE «+Grille» smoke control dampers are intended for commercial premises and can be used as air inlets or for smoke and heat exhaust.



## PRODUCT BENEFITS

- simplicity: Nominal dimensions = installation dimensions,
- reversible top/bottom mounting frame,
- single mounting frame for all OPTONE models.

## REGULATIONS AND COMPLIANCES

PV CE number : 1812-CPR-1053

## Principles of operation

In standby position, the damper is closed. It opens when instructed by the FACP and moves into failsafe position.

## Product description

OPTONE «+Grille» 2-flap smoke control dampers are intended for non-residential buildings (public-access, high-rise), and can be used as air inlets or for smoke and heat exhaust. They can be motorised. OPTONE «+ Grille» 2-flap dampers include a grille which eliminates the requirement to install a separate grille. The electromagnetic trip device is included and available in current make/break versions and 24/48V.

## Fields of application

New, Refurbishment, Non-residential buildings

## Installation

- “multi-compartment” dampers are suitable for “single-compartment” applications,
- maximum negative pressure: - 1,000 Pa,
- direction of fire: inside smoke exhaust duct (when damper is closed).
- use of mounting frame strongly recommended,
- use of CONCEPTOR DESENFUMAGE design software recommended to define the dimensions of the mounting frame installation space,
- if mounting frame already fixed to damper (no gaps), nominal LxH dimensions of damper = dimensions of opening,
- if mounting frame mortar sealed, add thickness of mortar to L and H,
- use detailed instructions for correct installation of flaps,
- damper can be inverted “upside down”,
- damper flush-mounted against vertical smoke exhaust duct,
- attached with 4 self-tapping screws supplied, on front face in mounting frame holes.

## Main characteristics

- CE marking compliant as per EN 12101-8: Certificate 1812-CPR-1053,
- fire resistance classification as per EN 1366-10 test:
  - EI 90 (ved-i o) S - 1000 Pa - AA multi, in accordance with § 7.2.4 of EN 13501-4 certified on Promatect smoke exhaust duct L500 and on ducts compliant with EN 1366-9 of the same material and same density,
  - EI 60 S for H • 1000.
- compliant with French standard NF-S-61937-10,
- leak rate < 200 m<sup>3</sup>/h per m<sup>2</sup> of leaf at 1,000 Pa,
- pressure losses damper only (with grille):
  - return:  $\Delta p = 2,083 \cdot \sqrt{(S_{\text{free}}/(L \cdot H))} \cdot (Q/S_{\text{free}})^2$ ,
  - supply:  $\Delta p = 2,00 \cdot \sqrt{(S_{\text{free}}/(L \cdot H))} \cdot (Q/S_{\text{free}})^2$ ,
  - $\Delta p$  in Pa,  $S_{\text{free}}$  m<sup>2</sup>,  $Q$  in m<sup>3</sup>·s<sup>-1</sup>, L and H in mm.
- free air passage (dm<sup>2</sup>): 2 flap =  $((L-76) \times (H-57) - 14\,147) / 10\,000$ .

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## Supplementary characteristics

- motorised damper possible,
- electric control mechanism inside protective box,
- steel mounting frame 20/10 mm,
- grille frame attached to damper,
- nominal dimensions of damper L x H = installation space (opening) for mounting frame, attached without mortar seal,
- locking system mounted on flap for greater free surface,
- cable through holes included,
- locking system fitted with self-resetting electromagnetic trip device,
- scalable junction box,
- available options:
  - galvanised steel trim, choice of RAL colour,
  - lockable core,
  - backdraft (required on air intakes if speed in ducts is above 7 m/s),
- mounting frame can be installed in factory.

## Accessories

| Description                             | Variants |
|---|----------|
| Adapter OPTONE® 1flap-2flap             | 11044406 |
| Locktone motor kit for OPTONE® 2-flap   | 11044399 |
| Backdraft kit OPTONE (pack of 6)        | 11044387 |
| Pack 10 locking clips OPTONE® «+Grille» | 11044415 |
| TRIM KIT OPTONE 2F                      | 11144405 |
| PerfONE Kit                             | 11044385 |

## Options

|       |
|-------|
| BRUT  |
| ENJO  |
| PEINT |
| 44390 |
| 44391 |
| 44392 |
| 44393 |
| 44398 |
| ANTI1 |
| CLIP1 |

## General data

| Variants | Free air passage section (dm <sup>2</sup> ) |
|----------|---|
| 11044411 | 7,7 (Min) - 104,2 (Max)                     |

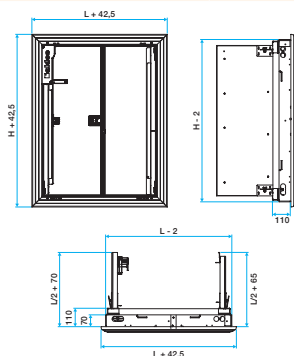
## Volet de désenfumage

11044411

### OPTONE® «+ Grille» 2-flap with choice of options

## Dimensional data

| Variants | Lmin x Hmin (mm) | Lmax x Hmax (mm) |
|----------|------------------|------------------|
| 11044411 | 450 x 300        | 1000 x 1200      |



## Installation

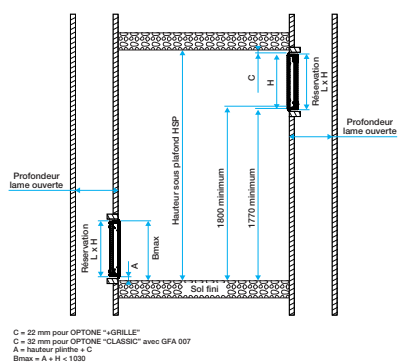


Schéma d'installation du volet OPTONE