

11044410

OPTONE® «+ Grille» 1-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.



OPTONE «+ Grille» 1-flap

PRODUCT BENEFITS

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

REGLEMENTATIONS 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» 1-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» 1-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: respect fire inside the smoke exhaust duct (when the 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, Desenfire, Geostaff etc. and on ducts compliant with EN 1366-9 of the same material and same density,
- compliant with French standard NF-S-61937-10,
- leak rate < 200 m³/h per m² 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: $\Delta p = 2,00 \cdot \sqrt{(S_{\text{free}}/(L \cdot H)) \cdot (Q/S_{\text{free}})^2}$,
 - Δp in Pa, S_{free} in m², Q in m³.s⁻¹, L and H in mm.
- free air passage (dm²): 1 flap = $((L-57) \times (H-57) - 14 \cdot 147) / 10 \cdot 000$.

11044410

OPTONE® «+ Grille» 1-flap with choice of options

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

Désignations	References
Adapter OPTONE® 1flap-2flap	11044406
Locktone motor kit for OPTONE® 1-flap	11044398
Backdraft kit OPTONE (pack of 6)	11044387
Pack 10 locking clips OPTONE® «+Grille»	11044415
TRIM KIT OPTONE 1F	11144404
PerFONE Kit	11044385

Options

BRUT
ENJO
PEINT
44390
44391
44392
44393
44398
ANTI1
CLIP1

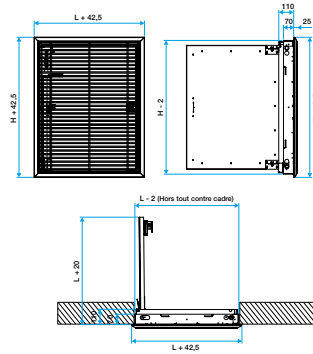
General data

References	Free air passage section (dm ²)
11044410	4,5 (Min) - 52,8 (Max)

11044410 OPTONE® «+ Grille» 1-flap with choice of options

Dimensional data

References	Lmin x Hmin (mm)	Lmax x Hmax (mm)
11044410	300 x 300	700 x 900



Encombrement OPTONE «+ Grille» 1V avec son contre-cadre (mm)

Installation visual 1

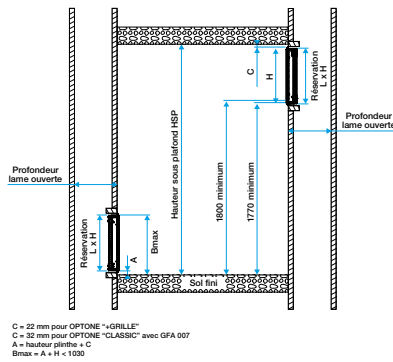


Schéma d'installation du volet OPTONE