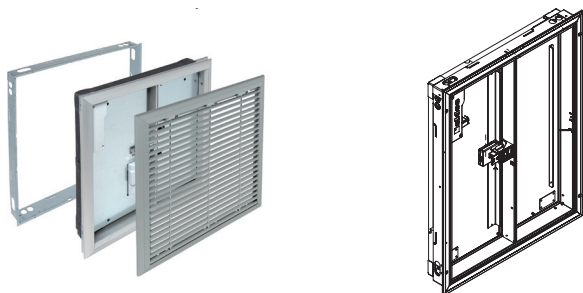**Volet de désenfumage**

11044421
OPTONE® «Classic» 2-flap with choice of options

OPTONE "Classic" 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-1055

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 "Classic" 2-flap smoke control dampers are intended for commercial buildings (public-access, high-rise), and can be used as air inlets or for smoke and heat exhaust. They can be motorised. The OPTONE «Classic» 2 flap dampers are compatible with ALDES GFA steel grilles, GFA 007, GFE and GGH, as well as all grilles with geometrical transparency greater than 44%. 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 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: 1812-CPR-1055,
• fire resistance classification as per EN 1366-10 test:
- EI 120 (ved-i o) S - 1 000 Pa - AA multi, in compliance 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,
- for H • 1000 mm: EI 60 (ved-i o) S - 1 000 Pa - AA multi, in compliance 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.
• compliant with French standard NF-S-61937-10,
• leak rate < 200 m3/h per m² of leaf at 1,000 Pa,
• free air passage (dm²) with L and H in mm: 2 flap = ((L-76) x (H-57) -14 147) / 10 000,
• mounting frame and grille can be installed in factory.

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Supplementary characteristics

- motorised damper possible,
- can be ordered in steps of 5 mm in L and H,
- electric control mechanism inside protective box,
- steel mounting frame 20/10 mm,
- choice of aesthetic aluminium frame,
- nominal dimensions of damper L x H = installation space (opening) for mounting frame,
- 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,
- pressure loss for damper only (with grille):
- exhaust: $\Delta P = 2.083 \times \sqrt{(S\_free/(LxH)).(Q/S\_free)2}$,
- supply: $\Delta p = 2,00 . \sqrt{(S\_free/(LxH)).(Q/S\_free)2}$,
- (Δp en Pa, S_free in m2, Q in m3.s-1, L and H in mm).
- available options:
- galvanised steel trim, choice of RAL colour,
- backdraft (required on air intakes if speed in ducts is above 7 m/s.

Accessories

Description	Variants
Adapter OPTONE® 1flap-2flap	11044406
Steel GFA grille for OPTONE® T-1f/2f	11044409
GFA 007 grille OPTONE®	11044408
Locktone motor kit for OPTONE® 2-flap	11044399
Backdraft kit OPTONE (pack of 6)	11044387
TRIM KIT OPTONE 2F	11144405

Options

BRUT
ENJO
PEINT
44390
44391
44392
44393
44398
ANTI1

General data

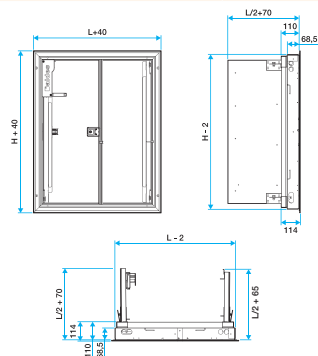| Variants	Free air passage section (dm²)
11044421	7,7 (Min) - 104,2 (Max)

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Dimensional data

Variants	Lmin x Hmin (mm)	Lmax x Hmax (mm)
11044421	450 x 300	1000 x 1200

Installation

C = 22 mm pour OPTONE "+GRILLE"
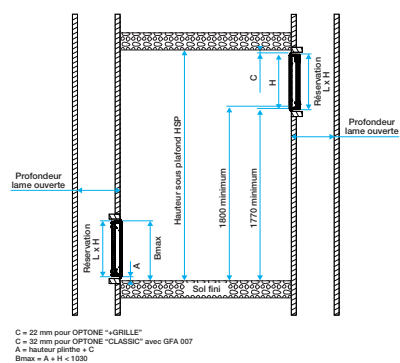C = 32 mm pour OPTONE "CLASSIC" avec GFA 007
A = hauteur plinthe + C
Bmax = A + H < 1030

Schéma d'installation du volet OPTONE