

COMPULSOR

FIRE PROTECTION - EDITION N°9



Compulsor Fire Protection

Edition No. 9

Since its takeover of SGEI in 1984, Aldes has been constantly developing and updating its range of fire protection products, proposing innovative, high performance compartmentalisation & smoke extraction solutions.

Compulsor Edition 9 contains all the technical and regulatory information you need to make informed choices in the selection of fire dampers, air inlets, smoke exhaust dampers, relay boxes and smoke exhaust fans.

The final sections of this work covers older products, some of which have been operational for decades, helping you find spare parts or equivalent products.

Aldes, France's leading manufacturer of fire dampers and smoke exhaust dampers is at your service, with its 18 agencies and its new version of the CONCEPTOR SMOKE EXHAUST software.

It should also be noted that this year we have created the new SMOKE EXHAUST - RESIDENTIAL CONCEPTOR, which, in 36 pages, covers all the products needed to install smoke exhaust systems in 3 & 4 bedroom family dwellings.

NEW: You can download 2D and 3D models of our products on our dedicated website:

http://cad.aldes.com



Smoke exhaust relay units and fans



VELONE roof fan **p. 8**



CYCLONE F casing F 400

p. 24

Smoke exhaust dampers and air inlets



OXYTONE PANNEAU 2012 panel air inlet

p. 79



AIRONE D. 81

Fire dampers



Isone/Surface mounted 500 Pa

p. 120



CIRCULAR ISONE flush-mounted

p. 130

Replacement and maintenance



Fire dampers **p. 159**



Cartridges **p. 164**



EXONE F400 Casing **p. 46**



Axial fans HELIONE F200 - F400 **p. 62**



Electrical accessories **p. 72**



OXYTONE LAMES 2013 bladed air inlet **p. 83**



OPTONE smoke exhaust shutter **p.89**

New



Aesthetic damper grilles **p. 97**



Smoke exhaust damper **p.108**



RECTANGULAR ISONE flush-mounted **p. 137**



ISONE 1500 casing **p. 146**



ISONE 1500 sleeved **p. 147**



MINISONE p. 149



CF1 / CF2 **p. 152**



Smoke exhaust dampers **p. 165**



Spare parts **p. 168**



Did you know that in a fire accident, 80% of deaths are caused by smoke inhalation? Smoke can contain up to 100 different chemical compounds, including some that are toxic even in small doses.

13 *minutes* is the average time it takes firefighters to arrive at a fire location.

For all these reasons, smoke management and compartmentation of the fire are essential as soon as it breaks out.

Aldes,

the leading provider of fire protection solutions, will assist you in **protecting lives**.

Know-how of a French manufacturer.

Aldes has designed and built its ranges of products since 1925. As a historical market player, Aldes has acquired expertise in fire protection technologies and regulatory compliance. This has enabled the company to develop a vast range of smoke exhaust and building compartmentation products to meet the needs of the market. The safety of people inside buildings is one of the Group's main vocations.

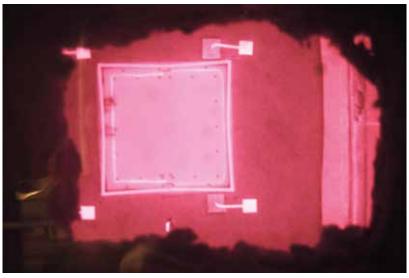




Our solutions meet the needs of installers, emergency fire services and building users.

Aldes has designed a range of standard products to satisfy French and European regulations (CE, NF). These products are subjected to in-house testing and external testing by independent bodies. The Aldes range covers all the fire protection needs of commercial buildings:

- Fans and relay boxes for mechanical smoke exhaust
- Smoke exhaust casements and dampers
- Fire dampers



Test centre

Aldes also provides its expertise on more specific projects that require custom solutions. Aldes can therefore support the most demanding projects through its research centre and conduct tests under special conditions, such as for refurbishment projects or nuclear sites.

A network of local technical sales representatives at your service.

The 200 representatives in the Aldes technical sales network are spread amongst 18 agencies around France. ALDES is also present in more than 60 countries (see p177 for more information).

Their know-how is available to customers to support them at each stage of a project:



- Diagnostic: analysis of buildings to identify the most suitable solution to your needs
- Design: dimensioning of systems and products selected
- Installation: Aldes teams are on hand in the field and our agencies to support you in ensuring high quality installation of the equipment
- Maintenance: replacement parts management, standard maintenance contracts for certain products, etc.

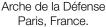
Toulouse agency

Lastly, Aldes operates an integrated, flexible supply chain. Our logistics hub in Mions (69) and an efficient ERP system ensure Aldes can meet the needs of our customers at competitive prices and in short deadlines.

Some prestigious references

Aldes is involved in most large-scale projects around the world. Our numerous references include the stade des Lumières in Lyon, the Philharmonie and the Louvre in Paris etc. Aldes is also involved in over 2,500,000 houses and more than 3,000,000 collective housing apartments equipped with ventilation.







EPR Nuclear Power Plant in Flamanville - France.



International Airport - Lomé, Togo.



Tour Majunga Paris, France.



Stade des Lumières - Lyon, France.



Philharmonie - Paris, France.



Fondation Louis Vitton, Paris, France.



The Rhône-Alpes Pavilion, Universal Exhibition 2010 - Shanghai, China.



Ecole-Tournefeuille, France.



Tour InCity - Lyon, France.



Le Louvre - Paris, France.



Nantes Hospital, France.



Aldes training offers:

- 1 team of specialised trainers
- 3 training centres*
- 18 Aldes agencies
- **30 training** programmes
- 600 m² of practical workshops
- 800 trainees being trained each year
- 1500 m² of space dedicated to training



: Aldes training centres

A full range:

- ☐ General training courses
- □ CMEV
- ☐ Multi-functional systems
- ☐ Thermodynamic DHW
- ☐ Heating and DHW, heat pumps, aerothermics
- ☐ Heating and DHW, heat pumps, geothermics
- ☐ Smoke exhaust / compartmentation

Something for everyone:

- ☐ Installers
- □ Maintenance firms
- □ Distributors
- Design offices
- □ Project managers
- □ Prime contractors
- ☐ Assembly technicians



Aldes Formation is certified to engineer, facilitate and for the quality of its training programmes for the construction industry:



- ∇entilation, air distribution and management
- ☐ Thermal comfort

- ☐ Fire protection
- ☐ Central vacuum cleaning

Mechanical Smoke Extraction

This MECHANICAL SMOKE
EXTRACTION section includes
the various types of fire-resistant
smoke exhaust fans and associated
electrical equipment available.
We have already coded all product
ranges to improve their presentation,
but please feel free to contact
your Aldes Agency if you have any
specific requests or requirements.

Market leader in relay units and inventor of the ALL-IN-ONE solution where an AXONE relay unit is coupled to the smoke exhaust fan, Aldes also offers progressive start-up relay boxes.

It should be noted that you can find the supply fans in the price list and the Casings and Heat-Recovery Unit Compulsor.

Smoke exhaust roof fan



VELONE F400 p. 8

Smoke exhaust casings









CYCLONE F400 - p. 24

EXONE F400 - p. 46

Axial fan units



p. 62

Electrical Accessories

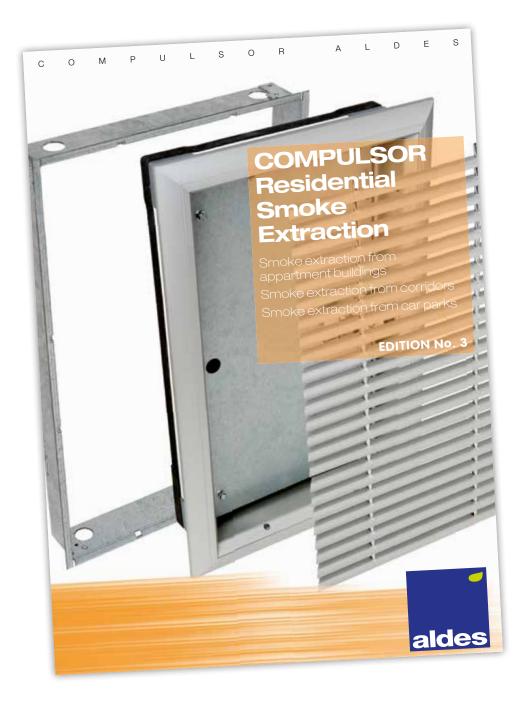


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36 pages of Aldes solutions & products in the new Compulsor Residential Smoke Extraction





Presentation of the 'new VELONE' F400°-120 Min range







Compliance

- Conformity of markings C €.
- F400°-120 min classification as per EN 12101-3.
- Compliant with optional non-return damper and rain-guard kit accessories.

PRE-SELECTION OF VELONE MODELS

Advantages

- Up to 27,000 m³/h.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Go for Exclusive): Aeraulic connection for pressure switch established in the factory.
- Go for Exclusive! : IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

New VELONE

With the 'All-In-One' option

FIELD OF APPLICATION

- Smoke extraction from commercial premises (public buildings, high-rises, commercial & industrial premises, etc.) and multi-family housing (principally 3rd & 4th Family B dwellings).
- Ventilation in commercial premises where a fire classification is required (professional kitchens, sports halls, workshops, etc.).

INSTALLATION

 Exterior - directly to the duct or onto a floor stack base (accessory).

DESCRIPTION

- 10 sizes of roof fan: for flow rates of between 500 & 27,000m³/h.
- Base & motor support in galvanised steel, hat in ABS, attached using four quick-fit screws.
- BackWard curve impellor in galvanised steel.
- Class F, IP55 electric motor.
- · Galvanised steel protective grille.
- 60 Hz product range, ask for details.

FIRE PROTECTION RATING

- VELONE has been granted F400°-120 Min. classification. The 'All-in-One' option (integrated relay box), the backdraft damper and the rain-guard kit have all been validated by fire resistance tests.
- CE as per EN 12101-3.

AVAILABLE OPTIONS

- Adjustable pressure switch mounted inside to protect it from shocks and weather. EXCLUSIVE: the pressure switch is aeraulically connected (Note: for two-speed smoke extraction operations, two pressure switches should be used).
 Proximity switch hard-wired and mounted inside to
- Proximity switch hard-wired and mounted inside to protect it from shocks and weather.

• ALL-IN-ONE OPTION.

- Ideal solution when the relay box is mounted within 2 m of the VELONE roof fan.
- Saves time when wiring, operational guarantee and on-site wiring simplified.
- The wiring for the relay box is installed in the factory, as per NF-S-61932.
- Always includes the relay box, pressure switch and switch.
- AXONE 1V cabinet mounted inside to protect it from shocks and weather.

ACCESSORIES

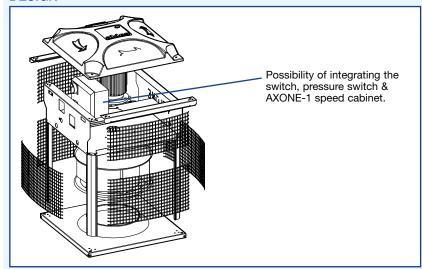
- Rain-guard kit, tested in the laboratory for IP x 4 = proof against rainfall from all directions.
- Backdraft damper tested for fire resistance.
- Vertical outlet kit: incompatible with the All-in-One solution.
- Sealed frame or duct-mounted frame.
- Pivot pin.
- Roof or floor stack base (with slopes).

ELECTRICAL ACCESSORIES

- Frequency controller.
- · 2-speed comfort control box.

VELONE 27.0 27,000 m³/h **VELONE 20.0** 20,000 m³/h VELONE 13.0 13,000 m³/h **VELONE 8.5** 8,500 m3/h 10,500 m³/h **VELONE 10.5 VELONE 7.2** 7,200 m³/h **VELONE 4.5** 4,500 m³/h **VELONE 3.2** 3.200 m³/h **VELONE 1.5** 1,500 m³/h **VELONE 1.2** 1,200 m³/h

DESIGN



Q (m³/h)





Presentation of the advantages of a VELONE

AIRFLOW OF UP TO 27,000 m³/h

 Aldes has taken great care in the design of this new VELONE, to offer a range of smoke exhaust roof fans that comply with CE marking requirements, with a flow rate of up to 27,000 m³/hour without increasing unit dimensions

COMPACT, TO PROVIDE PROTECTION AGAINST SHOCKS AND WEATHER CONDITIONS

- We preferred to strengthen the motor support using galvanised steel rather that plastic, as we consider that in the long term, electrical accessories such as relay boxes, pressure switches and proximity switches should be protected against impacts and weather conditions.
- The motor mount is well ventilated.

AERAULIC CONNECTION FOR PRESSURE SWITCH ESTABLISHED IN THE FACTORY

- Inventor of the 'All-in-One' system (relay box hardwired in the factory), we can exclusively offer this new range with aeraulic connections for pressure switches.
- This option minimises the labour on-site: no more drilling ducts on-site!

RAIN GUARD KIT - AN ALDES EXCLUSIVE

- Smoke extraction roof fans which are only used for smoke extraction are permanently on standby, ready to start in the event of a fire or for a test. A smoke extraction roof fan on standby presents a risk of rain water penetration in the event of a storm and violent winds.
- The new VELONE design means we can offer you a new accessory: the Rain Guard Kit. Made up of four components, to be assembled on-site, the rain guard kit has passed all necessary fire tests and has a protection level of IP x4, validated by the CETIAT laboratory. This classifications guarantees that the equipment will be leak-proof, under a rainfall of 600l/h, from all directions.

COMPLIANT BACKDRAFT DAMPER

• The backdraft damper is used to prevent heat loss and has successfully passed its regulatory fire tests.

EASY REPLACEMENT

- This new range of roof fan can replace any new VELONE delivered between 1998 & 2007. In fact, we designed this new range without modifying the basic dimensions. In addition, for the equivalent base dimensions, the new range has better aeraulic performance levels.
- Transformation kits designed to replace "old
 of for new roof fans" are available page 175.





With the 'All-In-One' option, hat removed



With the 'All-In-One' option



New VELONE F400 - 1.2 - 3-P/Single-phase



Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit
- Pivot pin = easy cleaning.

DESCRIPTION

Airflow between 100 and 1200 m³/h.

RANGE with choice of options

| Designation | Code |
|-------------------------------|----------|
| VELONE 1-spee | d |
| VELONE 1.2M 0.24 kW (Mono) | 11021390 |
| VELONE 1.2 - 4T 0.37 kW (3-P) | 11021340 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 - relay box delivered already wired,
 - pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| All-in-One 1-speed smoke extraction | OPT21273 |

ACCESSORIES

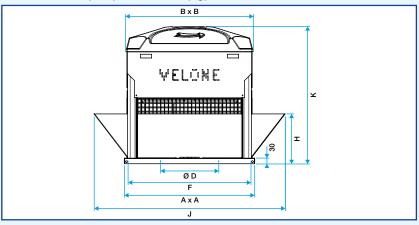
Description on following pages

| Description | Code |
|---------------------------------|----------|
| Rain guard kit IPx4 1.2/1.5/3.2 | 11021285 |
| Vertical kit 1.2/1.5/3.2 | 11021366 |
| Sealed frame 1.2/1.5/3.2 | 11021290 |
| Pivot pin 1.2/1.5/3.2 | 11021069 |
| Backdraft damper 1.2/1.5/3.2 | 11021260 |
| Duct-mounted frame 1.2/1.5/3.2 | 11021295 |
| Floor stack base 1.2/1.5/3.2 | 11021080 |
| Roof stack base 1.2/1.5/3.2 | 11021085 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.

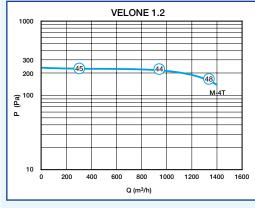
DIMENSIONS (mm) - WEIGHT (kg)



| Туре | Horizontal air outlet | | | | | | With | n vertica | l kit |
|--------|-----------------------|-----|-----|-----|-----|--------|------|-----------|--------|
| Velone | Α | В | ØD | F | K | Weight | J | Н | Weight |
| 1.2 | 533 | 519 | 185 | 493 | 580 | 36 | 707 | 190 | 41 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 250 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{D6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|-------|-----------------|---------|--------|--------|----------------------|--------|
| 1.2 M | 4 | 230 | 0.25 | 50 | 2.2 | 6.2 |
| 1.2 T | 4 | 230/400 | 0.37 | 50/60 | 1.03 | 5 |

• Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.





New VELONE F400 - 1.5 - 3-P/Single-phase



Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

• Airflow between 100 and 1500 m³/h.

RANGE with choice of options

| Code | | | | | | |
|----------------------------|--|--|--|--|--|--|
| NEW : VELONE STOCK 1-speed | | | | | | |
| 11021256 | | | | | | |
| 11021395 | | | | | | |
| VELONE 1-speed | | | | | | |
| 11021391 | | | | | | |
| 11021341 | | | | | | |
| 11021342 | | | | | | |
| VELONE 2-speed | | | | | | |
| 11021371 | | | | | | |
| | | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 - relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

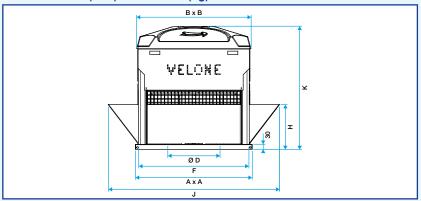
| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extract ion | OPT21275 |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |

| Description | Code |
|---------------------------------|----------|
| Rain guard kit IPx4 1.2/1.5/3.2 | 11021285 |
| Vertical kit 1.2/1.5/3.2 | 11021366 |
| Sealed frame 1.2/1.5/3.2 | 11021290 |
| Pivot pin 1.2/1.5/3.2 | 11021069 |
| Backdraft damper 1.2/1.5/3.2 | 11021260 |
| Duct-mounted frame 1.2/1.5/3.2 | 11021295 |
| Floor stack base 1.2/1.5/3.2 | 11021080 |
| Roof stack base 1.2/1.5/3.2 | 11021085 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

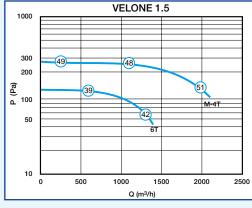
DIMENSIONS (mm) - WEIGHT (kg)



| Type | ype Horizontal air outlet | | | | | Wit | h vertica | l kit | |
|--------|---------------------------|-----|-----|-----|-----|--------|-----------|-------|--------|
| Velone | Α | В | ØD | F | K | Weight | J | Н | Weight |
| 1.5 | 533 | 519 | 209 | 493 | 607 | 38 | 707 | 190 | 43 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 250 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{D6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /In |
|-----------|-----------------|---------|----------|--------|----------------------|---------|
| 1.5 M | 4 | 230 | 0.25 | 50 | 2.2 | 6.2 |
| 1.5 4T | 4 | 230/400 | 0.37 | 50/60 | 1.03 | 5 |
| 1.5 6T | 6 | 230/400 | 0.18 | 50/60 | 0.71 | 3.5 |
| 1.5- 4/8T | 4/8 | 400 | 0.6/0.15 | 50 | 1.87/0.9 | 5.2/2.8 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 4/8 = Dahlander motor.





New VELONE F400 - 3.2 - 3-P/Single-phase



Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

Airflow between 100 and 3200 m³/h.

RANGE with choice of options

| Description | Code | | | | |
|---------------------------------|----------|--|--|--|--|
| NEW : VELONE STOCK 1 | I-speed | | | | |
| VELONE 3.2-6T 0.18kW+IP (stock) | 11021257 | | | | |
| VELONE 3.2-4T 0.55kW+IP (stock) | 11021386 | | | | |
| VELONE 3.2M 0.37kW+IP (stock) | 11021396 | | | | |
| VELONE 1-speed | | | | | |
| VELONE 3.2M 0.37 kW (Mono) | 11021392 | | | | |
| VELONE 3.2 - 4T 0.55 kW (3-P) | 11021344 | | | | |
| VELONE 3.2 - 6T 0.18 kW (3-P) | 11021345 | | | | |
| VELONE 2-speed | | | | | |
| VELONE 3.2 - 4/8T 0.6/0.15 kW | 11021373 | | | | |

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 - relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in. If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| 1-speed switch-7.5 kW + contacts | OPT21281 |
| 2-speed switch-7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | OPT21275 |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |

It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

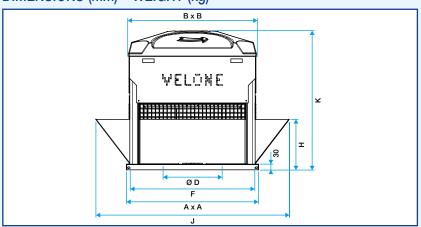
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| Vertical kit 1.2/1.5/3.2 | 11021366 |
| Sealed frame 1.2/1.5/3.2 | 11021290 |
| Pivot pin 1.2/1.5/3.2 | 11021069 |
| Backdraft damper 1.2/1.5/3.2 | 11021260 |
| Duct-mounted frame 1.2/1.5/3.2 | 11021295 |
| Floor stack base 1.2/1.5/3.2 | 11021080 |
| Roof stack base 1.2/1.5/3.2 | 11021085 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

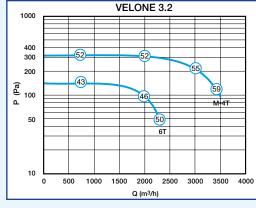
DIMENSIONS (mm) - WEIGHT (kg)



| Туре | Horizontal air outlet | | | | | | With | n vertica | l kit |
|--------|-----------------------|-----|-----|-----|-----|--------|------|-----------|--------|
| Velone | Α | В | ØD | F | K | Weight | J | Н | Weight |
| 3.2 | 533 | 519 | 235 | 493 | 629 | 39 | 707 | 190 | 44 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 315 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|----------|-----------------|---------|----------|--------|----------------------|---------|
| 3.2 M | 4 | 230 | 0.37 | 50 | 3 | 6 |
| 3.2- 4T | 4 | 230/400 | 0.55 | 50/60 | 1.3 | 6 |
| 3.2- 6T | 6 | 230/400 | 0.18 | 50/60 | 0.71 | 3.5 |
| 3.2- 4/8 | 4/8 | 400 | 0.6/0.15 | 50 | 1.87/0.9 | 5.2/2.8 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 4/8 = Dahlander motor.





New VELONE F400 - 4.5 - 3-P/Single-phase



DESCRIPTION

• Airflow between 300 and 4500 m³/h.

RANGE with choice of options

| Description | Code | | | | | |
|---------------------------------|----------|--|--|--|--|--|
| NEW : VELONE STOCK | 1-speed | | | | | |
| VELONE 4.5-6T 0.37KW+IP (stock) | 11021258 | | | | | |
| VELONE 4.5-4T 0.75KW+IP (stock) | 11021387 | | | | | |
| VELONE 4.5-4T 0.75KW+IP (stock) | 11021397 | | | | | |
| VELONE 1-speed | | | | | | |
| VELONE 4.5M 0.75 kW | 11021393 | | | | | |
| VELONE 4.5 - 4T 0.75 kW | 11021347 | | | | | |
| VELONE 4.5 - 6T 0.37 kW | 11021348 | | | | | |
| VELONE 2-speed | | | | | | |
| VELONE 4.5 - 4/6T 0.75/0.25 kW | 11021374 | | | | | |
| VELONE 4.5 - 4/8T 0.8/0.20 kW | 11021375 | | | | | |
| | | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in. If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|---|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

| AOOLOGOTILO | | | | | | | |
|------------------------------------|----------|--|--|--|--|--|--|
| Description | Code | | | | | | |
| Rain guard kit IPx4 - 4.5/7.2/10.5 | 11021286 | | | | | | |
| Vertical kit 4.5/7.2/10.5 | 11021367 | | | | | | |
| Sealed frame 4.5/7.2/10.5 | 11021291 | | | | | | |
| Pivot pin 4.5/7.2/10.5 | 11021070 | | | | | | |
| Backdraft damper 4.5/7.2/10.5 | 11021261 | | | | | | |
| Duct-mounted frame 4.5/7.2/10.5 | 11021296 | | | | | | |
| Floor stack base 4.5/7.2/10.5 | 11021081 | | | | | | |
| Roof stack base 4.5/7.2/10.5 | 11021086 | | | | | | |

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

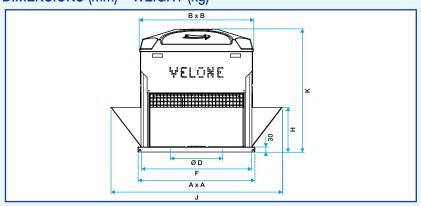
Did you know?

• There is now an S.O.S. VELONE —> p17

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

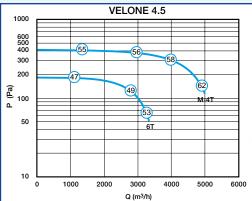
DIMENSIONS (mm) - WEIGHT (kg)



| Type | Horizontal air outlet | | | | | | Witl | n vertica | l kit |
|--------|-----------------------|-------------------|-----|-----|-----|----|------|-----------|--------|
| Velone | Α | A B ØD F K Weight | | | | | J | Н | Weight |
| 4.5 | 698 | 684 | 265 | 658 | 658 | 50 | 991 | 265 | 60 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 355 mm)
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|------------|-----------------|---------|-----------|--------|----------------------|---------|
| 4.5 M | 4 | 230 | 0.75 | 50 | 5.5 | 5.5 |
| 4.5- 4T | 4 | 230/400 | 0.75 | 50/60 | 1.65 | 6 |
| 4.5- 6T | 6 | 230/400 | 0.37 | 50/60 | 1.09 | 4.7 |
| 4.5 - 4/6T | 4/6 | 400 | 0.75/0.25 | 50 | 1.98/1.2 | 4.7/3.9 |
| 4.5 - 4/8T | 4/8 | 400 | 0.8/0.2 | 50 | 1.99/0.88 | 4.7/2.7 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 4/8 = Dahlander motor 4/6 = Motor with independent coils (BI).

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.



New VELONE F400 - 7.2 - 3-P/Single-phase



DESCRIPTION

• Airflow between 500 and 7200 m³/h.

RANGE with choice of options

| Description | Code | | | | | | | |
|--------------------------------|----------|--|--|--|--|--|--|--|
| VELONE 1-speed | | | | | | | | |
| VELONE 7.2M 1.1 kW | 11021394 | | | | | | | |
| VELONE 7.2 - 4T 1.1KW | 11021350 | | | | | | | |
| VELONE 7.2 - 6T 0.37 kW | 11021351 | | | | | | | |
| VELONE 2-spee | ed | | | | | | | |
| VELONE 7.2 - 4/6T 1.1/0.3KW | 11021376 | | | | | | | |
| VELONE 7.2 - 4/8T 1.2/0.3KW | 11021377 | | | | | | | |
| VELONE STOCK 1-speed | | | | | | | | |
| VELONE 7.2-4T 1.1KW+IP (stock) | 11021388 | | | | | | | |
| VELONE 7.2M 1.1KW+IP (stock) | 11021398 | | | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | OPT21275 |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

Description on following pages

| becomplien on tellerning pages | | | | | | | |
|------------------------------------|----------|--|--|--|--|--|--|
| Description | Code | | | | | | |
| Rain guard kit IPx4 - 4.5/7.2/10.5 | 11021286 | | | | | | |
| Vertical kit 4.5/7.2/10.5 | 11021367 | | | | | | |
| Sealed frame 4.5/7.2/10.5 | 11021291 | | | | | | |
| Pivot pin 4.5/7.2/10.5 | 11021070 | | | | | | |
| Backdraft damper 4.5/7.2/10.5 | 11021261 | | | | | | |
| Duct-mounted frame 4.5/7.2/10.5 | 11021296 | | | | | | |
| Floor stack base 4.5/7.2/10.5 | 11021081 | | | | | | |
| Roof stack base 4.5/7.2/10.5 | 11021086 | | | | | | |
| | | | | | | | |

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

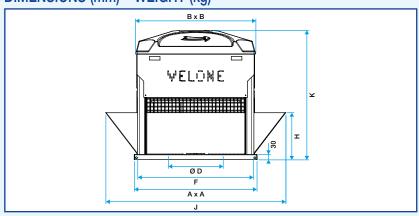
Did you know?

• There is now an S.O.S. VELONE —> p17

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

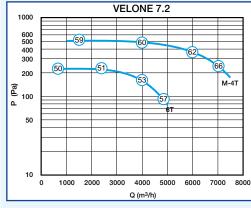
DIMENSIONS (mm) - WEIGHT (kg)



| Type | Horizontal air outlet | | | | | | Witl | n vertica | l kit |
|--------|-----------------------|-------------------|-----|-----|-----|----|------|-----------|--------|
| Velone | Α | A B ØD F K Weight | | | | | | Н | Weight |
| 7.2 | 698 | 684 | 299 | 658 | 688 | 60 | 991 | 265 | 70 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 400 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|------------|-----------------|---------|---------|--------|----------------------|---------|
| 7.2 M | 4 | 230 | 1.1 | 50 | 7.6 | 7 |
| 7.2 - 4 T | 4 | 230/400 | 1.1 | 50/60 | 2.37 | 7 |
| 7.2 - 6 T | 6 | 230/400 | 0.37 | 50/60 | 1.09 | 4.7 |
| 7.2 - 4/6T | 4/6 | 400 | 1.1/0.3 | 50 | 3.02/1.43 | 5.4/4 |
| 7.2 - 4/8T | 4/8 | 400 | 1.2/0.3 | 50 | 2.92/1.29 | 5.5/3.1 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 4/8 = Dahlander motor 4/6 = Motor with independent coils (BI).

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.





New VELONE F400 - 10.5 - 3-P





With the 'All-In-One' option, hat removed

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain quard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

• Airflow between 500 and 10,500 m³/h.

RANGE with choice of options

| Description | Code | | | | | |
|----------------------------------|----------|--|--|--|--|--|
| VELONE 1-speed | | | | | | |
| VELONE 10.5 - 4T 1.5 kW | 11021353 | | | | | |
| VELONE 10.5 - 6T 0.55 kW | 11021354 | | | | | |
| VELONE 10.5 - 8T 0.37 kW | 11021355 | | | | | |
| VELONE 2-speed | | | | | | |
| VELONE 10.5 - 4/6T 1.5/0.37KW | 11021378 | | | | | |
| VELONE 10.5 - 4/8T 1.6/0.4KW | 11021379 | | | | | |
| VELONE STOCK 1-speed | | | | | | |
| VELONE 10.5-8T 0.37KW+IP (stock) | 11021259 | | | | | |
| VELONE 10.5-4T 1.5KW+IP (stock) | 11021389 | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 relay box delivered already wired.
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | OPT21275 |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | OPT21277 |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

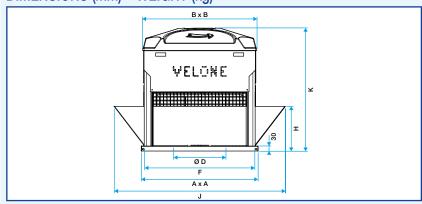
It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

Description on following pages

| Description | Code |
|------------------------------------|----------|
| Rain guard kit IPx4 - 4.5/7.2/10.5 | 11021286 |
| Vertical kit 4.5/7.2/10.5 | 11021367 |
| Sealed frame 4.5/7.2/10.5 | 11021291 |
| Pivot pin 4.5/7.2/10.5 | 11021070 |
| Backdraft damper 4.5/7.2/10.5 | 11021261 |
| Duct-mounted frame 4.5/7.2/10.5 | 11021296 |
| Floor stack base 4.5/7.2/10.5 | 11021081 |
| Roof stack base 4.5/7.2/10.5 | 11021086 |

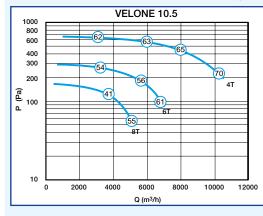
DIMENSIONS (mm) - WEIGHT (kg)



| Type | Horizontal air outlet | | | | | Witl | n vertica | l kit | |
|--------|-----------------------|-------------------|-----|-----|-----|------|-----------|-------|--------|
| Velone | Α | A B ØD F K Weight | | | | | J | Н | Weight |
| 10.5 | 698 | 684 | 332 | 658 | 721 | 72 | 991 | 265 | 82 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 450 mm)
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure leve radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|-----------|-----------------|---------|----------|--------|----------------------|---------|
| 10.5-4 T | 4 | 230/400 | 1.5 | 50/60 | 3.30 | 7.5 |
| 10.5-6 T | 6 | 230/400 | 0.55 | 50/60 | 1.57 | 4.8 |
| 10.5-8 T | 8 | 230/400 | 0.37 | 50/60 | 1.40 | 4 |
| 10.5-4/6T | 4/6 | 400 | 1.5/0.37 | 50 | 3.71/1.73 | 5.6/3.8 |
| 10.5-4/8T | 4/8 | 400 | 1.6/0.4 | 50 | 4.05/1.78 | 5.7/4.1 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 4/8 = Dahlander motor 4/6 = Motor with independent coils (BI).

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.





New VELONE F400 - 8.5 - 3-P





With the 'All-In-One' option

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- · Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain quard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

• Airflow between 500 and 8,500 m³/h.

RANGE with choice of options

| Description | Code | | | | |
|--------------------------------|----------|--|--|--|--|
| VELONE 1-speed | | | | | |
| VELONE 8.5 - 6T 1.1KW | 11021357 | | | | |
| VELONE 8.5 - 8T 0.55KW | 11021358 | | | | |
| VELONE 2-speed | | | | | |
| VELONE 8.5 - 6/8T 1.1/0.55KW | 11021380 | | | | |
| VELONE 8.5 - 6/12T 1.1/0.22 kW | 11021381 | | | | |

AVAILABLE OPTIONS

- · Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- · Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems): - relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|---|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | OPT21277 |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

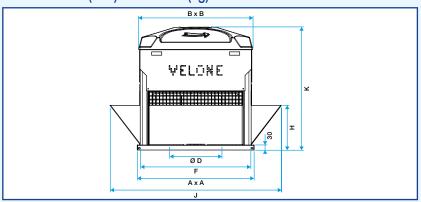
It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

Description on following pages

| Description | Code |
|-------------------------------|----------|
| Rain-guard kit IP x4 - 8.5/13 | 11021287 |
| Vertical kit 8.5/13 | 11021368 |
| Sealed frame 8.5/13 | 11021292 |
| Pivot pin 8.5/13 | 11021071 |
| Backdraft damper 8.5/13 | 11021262 |
| Duct-mounted frame 8.5/13 | 11021297 |
| Floor stack base 8.5/13 | 11021082 |
| Roof stack base 8.5/13 | 11021087 |

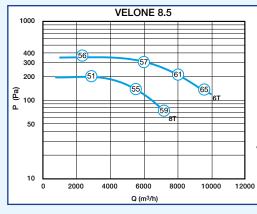
DIMENSIONS (mm) - WEIGHT (kg)



| Туре | Horizontal air outlet | | | | | | Witl | n vertica | l kit |
|--------|-----------------------|-------------------|-----|-----|-----|-----|------|-----------|--------|
| Velone | Α | A B ØD F K Weight | | | | | | Н | Weight |
| 8.5 | 834 | 820 | 373 | 794 | 793 | 100 | 1270 | 355 | 116 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 500 mm).
- Pressure values shown on the curves = static pressures.





• The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A $[L_{p6m} (dB(A))]$.

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|----------|-----------------|---------|----------|--------|----------------------|---------|
| 8.5-6 T | 6 | 230/400 | 1.1 | 50/60 | 2.9 | 5 |
| 8.5-8 T | 8 | 230/400 | 0.55 | 50/60 | 2 | 4 |
| 8.5-6/8 | 6/8 | 400 | 1.1/0.55 | 50 | 3.59/2.52 | 5.1/4 |
| 8.5-6/12 | 6/12 | 400 | 1.1/0.22 | 50 | 4.39/1.5 | 5.5/2.6 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
 6/12 = Dahlander motor 6/8 = Motor with independent coils (BI).

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.





New VELONE F400 - 13.0 - 3-P





With the 'All-In-One' option, hat removed

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

• Airflow between 1000 and 13,000 m³/h.

RANGE with choice of options

| Description | Code | | | | |
|------------------------------|----------|--|--|--|--|
| VELONE 1-speed | | | | | |
| VELONE 13 - 6T 2.2KW | 11021359 | | | | |
| VELONE 13 - 8T 1.1KW | 11021360 | | | | |
| VELONE 2-spec | ed | | | | |
| VELONE 13 - 6/8T 2.2/1.3KW | 11021382 | | | | |
| VELONE 13 - 6/12T 2.2/0.55KW | 11021383 | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|---|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction | OPT21273 |
| All-in-One 2-speed Dahl smoke extraction | |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | OPT21277 |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

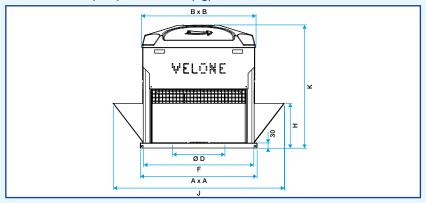
Description on following pages

| Description | Code |
|-------------------------------|----------|
| Rain-guard kit IP x4 - 8.5/13 | 11021287 |
| Vertical kit 8.5/13 | 11021368 |
| Sealed frame 8.5/13 | 11021292 |
| Pivot pin 8.5/13 | 11021071 |
| Backdraft damper 8.5/13 | 11021262 |
| Duct-mounted frame 8.5/13 | 11021297 |
| Floor stack base 8.5/13 | 11021082 |
| Roof stack base 8.5/13 | 11021087 |

ELECTRICAL ACCESSORIES

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

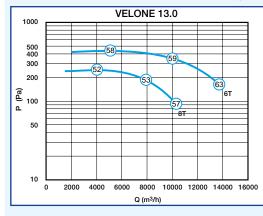
DIMENSIONS (mm) - WEIGHT (kg)



| Type | e Horizontal air outlet | | | | | | | n vertica | l kit |
|--------|-------------------------|-------------------|-----|-----|-----|-----|------|-----------|--------|
| Velone | Α | A B ØD F K Weight | | | | | J | Н | Weight |
| 13.0 | 834 | 820 | 419 | 794 | 833 | 115 | 1270 | 355 | 131 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 560 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|------------|-----------------|---------|----------|--------|----------------------|---------|
| 13.0-6T | 6 | 230/400 | 2.2 | 50/60 | 5.26 | 6.2 |
| 13.0-8T | 8 | 230/400 | 1.1 | 50/60 | 3.30 | 4.2 |
| 13.0-6/8T | 6/8 | 400 | 2.2/1.3 | 50/60 | 5.96/4.36 | 5.6/3.9 |
| 13.0-6/12T | 6/12 | 400 | 2.2/0.55 | 50/60 | 6.4/2.6 | 7/3 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 6/12 = Dahlander motor 6/8 = Motor with independent coils (Bl).



New VELONE F400 - 20.0 - 3-P





With the 'All-In-One' option

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain quard kit.
- Pivot pin = easy cleaning.

DESCRIPTION

Airflow between 1000 and 20,000 m³/h.

RANGE with choice of options

| Description | Code |
|----------------------------|----------|
| VELONE 1-spec | ed |
| VELONE 20 - 6T 3KW | 11021361 |
| VELONE 20 - 8T 1.5KW | 11021362 |
| VELONE 2-spee | ed |
| VELONE 20 - 6/8T 4/1.1KW | 11021384 |
| VELONE 20 - 6/12T 3/0.55KW | 11021385 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected For two-speed smoke extraction, two pressure switches are required.
- Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
- relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|---|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| 2-speed switch -7.5 kW + contacts | OPT21282 |
| All-in-One 1-speed smoke extraction 4.7A | OPT21273 |
| All-in-One 1-speed smoke extraction 16.7 A | OPT21274 |
| All-in-One 2-speed Dahl smoke extraction | |
| All-in-One 2-speed Dahl smoke extraction + comfort | OPT21276 |
| All-in-One 2-speed BI smoke extraction | |
| All-in-One 2-speed BI smoke extraction + comfort | OPT21278 |

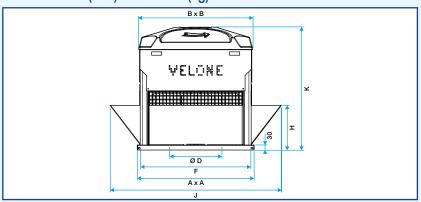
It is recommended that the All-in-One 2-speed system be fixed to a floor mount, code 11021265.

ACCESSORIES

Description on following pages

| Description | Code |
|------------------------------|----------|
| Rain-guard kit IP x4 - 20/27 | 11021288 |
| Vertical kit 20/27 | 11021369 |
| Sealed frame 20/27 | 11021293 |
| Pivot pin 20/27 | 11021072 |
| Backdraft damper 20/27 | 11021263 |
| Duct-mounted frame 20/27 | 11021298 |
| Floor stack base 20/27 | 11021083 |
| Roof stack base 20/27 | 11021088 |

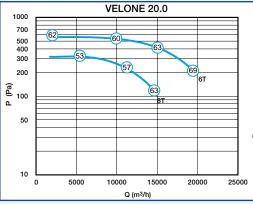
DIMENSIONS (mm) - WEIGHT (kg)



| Type | Horizontal air outlet | | | | | | | ı vertica | l kit |
|--------|-----------------------|-------------------|-----|-----|-----|-----|------|-----------|--------|
| Velone | Α | A B ØD F K Weight | | | | | J | Н | Weight |
| 20.0 | 984 | 970 | 474 | 944 | 983 | 165 | 1555 | 440 | 189 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 630 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|------------|-----------------|---------|---------|--------|----------------------|---------|
| 20.0-6T | 6 | 230/400 | 3 | 50/60 | 6.8 | 6 |
| 20.0-8T | 8 | 230/400 | 1.5 | 50/60 | 4.00 | 5.4 |
| 20.0-6/8T | 6/8 | 400 | 4/1.1 | 50/60 | 11.3/4.84 | 6.6/4.6 |
| 20.0-6/12T | 6/12 | 400 | 3/0.55 | 50/60 | 6.77/2.3 | 8.5/4.3 |

- Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.
- 6/12 = Dahlander motor 6/8 = Motor with independent coils (BI).

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.





New VELONE F400 - 27.0 - 3-P



Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- All-in-one option, compliant with optional non-return damper and rain-guard kit accessories.

Advantages

- Accessories protected from shocks & weather conditions by the metallic body.
- Electrical accessories hardwired in the factory and mounted inside to protect against physical shocks and weather conditions.
- Pressure switch aeraulic connection established in the factory.
- IP x4 certified rain guard kit
- Pivot pin = easy cleaning.

DESCRIPTION

• Airflow between 1000 and 27,000 m³/h.

RANGE with choice of options

| Description | Code |
|----------------------|----------|
| VELONE 1-spec | ed |
| VELONE 27 - 6T 5.5KW | 11021363 |
| VELONE 27 - 8T 3KW | 11021364 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected
- · Hardwired proximity switch, mounted and protected.
- All-in-One solution (not available for single-phase systems):
 - relay box delivered already wired,
- pressure switch & proximity switch supplied and wired in.

If using a vertical kit, attach the relay box outside the VELONE unit and outside of the air flow.

| Description | Code |
|--|----------|
| Pressure switch 40-300 Pa aeraulically connected | OPT21279 |
| Pressure switch 100-1000 Pa aeraulically connected | OPT21280 |
| 1-speed switch -7.5 kW + contacts | OPT21281 |
| All-in-One 1-speed smoke extraction - 16.7A | OPT21274 |

ACCESSORIES

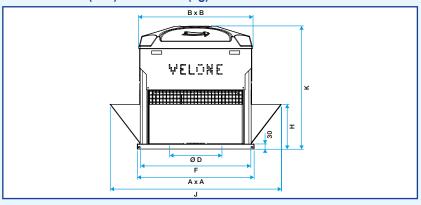
Description on following pages

| Description | Code |
|------------------------------|----------|
| Rain-guard kit IP x4 - 20/27 | 11021288 |
| Vertical kit 20/27 | 11021369 |
| Sealed frame 20/27 | 11021293 |
| Pivot pin 20/27 | 11021072 |
| Backdraft damper 20/27 | 11021263 |
| Duct-mounted frame 20/27 | 11021298 |
| Floor stack base 20/27 | 11021083 |
| Roof stack base 20/27 | 11021088 |

ELECTRICAL ACCESSORIES

- 3-phased auto transformer.
- Frequency controller.

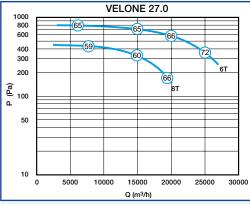
DIMENSIONS (mm) - WEIGHT (kg)



| Type | Horizontal air outlet | | | | With | n vertica | l kit | | |
|--------|-----------------------|-----|-----|-----|------|-----------|-------|--------|-----|
| Velone | A B ØD F K Weight | | | | | J | Н | Weight | |
| 27.0 | 984 | 970 | 535 | 944 | 1034 | 175 | 1555 | 440 | 207 |

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801, aspiration connected (Ø 630 mm).
- Pressure values shown on the curves = static pressures.





 The circled values correspond to a global sound pressure level radiated in free air, at 6 m and weighted by A [L_{p6m} (dB(A))].

ELECTRICAL CHARACTERISTICS

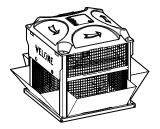
| Туре | Number of poles | U (V) | P (kW) | f (Hz) | In rated current (A) | ld /ln |
|---------|-----------------|---------|---------|--------|----------------------|--------|
| 27.0-6T | 6 | 230/400 | 5.5 | 50/60 | 12.4 | 6.8 |
| 27.0-8T | 8 | 230/400 | 3 | 50/60 | 6.8 | 6 |

• Rated current 'In' is given for a voltage of 400V with 3-Phase roof fans.





Vertical outlet kit



Advantages

- Conformity of markings C €.
- F400° 2h as per EN 12101-3.

FIELD OF APPLICATION

- The vertical outlet kit is a deflector, used to redirect the airflow into a vertical plane.
- Caution incompatible with the All-in-One solution and the rain-guard kit.

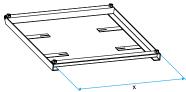
DESCRIPTION

- Comprises 4 sections in galvanised steel.
- · Supplied with suitable fixings.

RANGE

| Velone model | Code |
|---------------------------|----------|
| Vertical kit 1.2/1.5/3.2 | 11021366 |
| Vertical kit 4.5/7.2/10.5 | 11021367 |
| Vertical kit 8.5/13 | 11021368 |
| Vertical kit 20/27 | 11021369 |

Seal frame



FIELD OF APPLICATION

• Frame used to attach the attach the fan to a masonry surface.

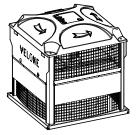
DESCRIPTION

- Comprises four folding pads which can be sealed against the stack base.
- · Supplied with fixings.
- Can be fitted with the pivot pin.
- Anti-corrosion paint.

RANGE

| Velone model | Code | X x X (mm) |
|---------------------------|----------|------------|
| Sealed frame 1.2/1.5/3.2 | 11021290 | 519 |
| Sealed frame 4.5/7.2/10.5 | 11021291 | 684 |
| Sealed frame 8.5/13 | 11021292 | 820 |
| Sealed frame 20/27 | 11021293 | 970 |
| | | |

IP x4 certified rain guard kit



FIELD OF APPLICATION

 The rain-guard kit prevents rain entering the ducts during bad weather, when the fan is stopped.

DESCRIPTION

 Tested by the CETIAT, an independent laboratory, the VELONE fan, fitted with a rain-guard kit, was awarded IPx4 classification.

This classification corresponds to multi-directional rainfall (hemispherical) at a rate of 600 litres per hour. When running, the four sections lift away and do not produce significant pressure loss.

- 4 sections in M0 fabric, reinforced on one side by a metallic strip.
- To be fitted on-site.
- Incompatible with the vertical outlet kit.

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- F400° 2h as per EN 12101-3.
- Class IP x4: Tested in an independent laboratory.

Advantages

 Go for Exclusive): Solution to prevent water penetrating the ducts during bad weather.

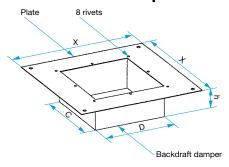
RANGE

| Velone model | Code |
|------------------------------------|----------|
| Rain guard kit IPx4 - 1.2/1.5/3.2 | 11021285 |
| Rain guard kit IPx4 - 4.5/7.2/10.5 | 11021286 |
| Rain-guard kit IP x4 - 8.5/13 | 11021287 |
| Rain-guard kit IP x4 - 20/27 | 11021288 |



ϵ

Backdraft damper



Advantages

Conformity of markings C €.

970

120

F400° - 2h as per EN 12101-3.

FIELD OF APPLICATION

- The backdraft damper prevents natural ventilation when the roof fan is in standby, thus making savings on heating/air-conditioning.
- The backdraft damper can be fitted using the sealed frame, the pivot pin and the floor-mounted fan.
- It is not compatible with the duct-mounted frame (ask for details).

DESCRIPTION

- The backdraft damper has passed its fire resistance tests.
- The backdraft damper has been designed for rapid installation thanks to its stacking plate.
- Can be dismantled and easily added at a later date.
- Factor-in an additional pressure loss of 50 Pa.

RANGE

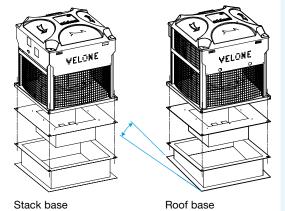
| Velone model | Code |
|-------------------------------|----------|
| Backdraft damper 1.2/1.5/3.2 | 11021260 |
| Backdraft damper 4.5/7.2/10.5 | 11021261 |
| Backdraft damper 8.5/13 | 11021262 |
| Backdraft damper 20/27 | 11021263 |

DIMENSIONS (mm) Code D h 11021260 380 328 519 120 11021261 480 498 684 120 11021262 580 580 820 120

780

780

Terrace-roof stack base



FIELD OF APPLICATION

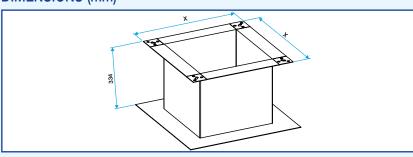
- The stack base is used to install a roof fan on a horizontal roof with no stonework stacks.
- The roof base is used to install a roof fan on a sloping roof with no stonework stacks.

DESCRIPTION

- Galvanised steel.
- Drilled in the four corners for the backdraft damper.
- For the roof stack, state the roof angle as a percentage or in degrees when ordering.

DIMENSIONS (mm)

11021263



| Stack base model | X |
|-------------------------|-----|
| Stack base 1.2/1.5/3.2 | 526 |
| Stack base 4.5/7.2/10.5 | 691 |
| Stack base 8.5/13 | 827 |
| Stack base 20/27 | 977 |

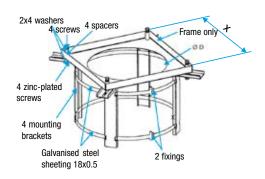
RANGE

| Velone model | Code | | | | | |
|-------------------------------|----------|--|--|--|--|--|
| Stack base | | | | | | |
| Floor stack base 1.2/1.5/3.2 | 11021080 | | | | | |
| Floor stack base 4.5/7.2/10.5 | 11021081 | | | | | |
| Floor stack base 8.5/13 | 11021082 | | | | | |
| Floor stack base 20/27 | 11021083 | | | | | |
| Roof stack: define roof angle | | | | | | |
| Roof stack base 1.2/1.5/3.2 | 11021085 | | | | | |
| Roof stack base 4.5/7.2/10.5 | 11021086 | | | | | |
| Roof stack base 8.5/13 | 11021087 | | | | | |
| Roof stack base 20/27 | 11021088 | | | | | |





Duct-mounted frame



FIELD OF APPLICATION

 The duct-mounted frame is used to install a VELONE roof fan on a cylindrical duct capable of supporting its weight.

DESCRIPTION

 With four brackets, a frame, four spacers and the required fixings.

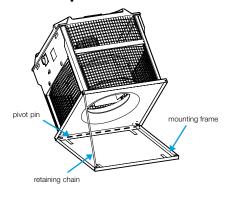
RANGE

| Velone model | Code |
|---------------------------------|----------|
| Duct-mounted frame 1.2/1.5/3.2 | 11021295 |
| Duct-mounted frame 4.5/7.2/10.5 | 11021296 |
| Duct-mounted frame 8.5/13 | 11021297 |
| Duct-mounted frame 20/27 | 11021298 |

DIMENSIONS (mm)

| Codo | v | Ø D | DUCT | | |
|----------|-----|-------|------|-------|--|
| Code | ^ | Ø min | | Ø max | |
| 11021295 | 519 | 420 | 250 | 400 | |
| 11021296 | 684 | 520 | 315 | 500 | |
| 11021297 | 810 | 650 | 400 | 630 | |
| 11021298 | 970 | 820 | 500 | 800 | |

Pivot pin



FIELD OF APPLICATION

• Hinge pin, used to provide access to the duct and fan turbine to facilitate maintenance.

DESCRIPTION

- Stainless steel pin which slides through the fan base, designed especially for it.
- 2 locking washers and a safety chain.
- IMPORTANT: immobilise the fan when open to prevent accidents.
- Requires the mounting frame.

RANGE

| Velone model | Code |
|------------------------|----------|
| Pivot pin 1.2/1.5/3.2 | 11021069 |
| Pivot pin 4.5/7.2/10.5 | 11021070 |
| Pivot pin 8.5/13 | 11021071 |
| Pivot pin 20/27 | 11021072 |



N E W

SOS Velone Emergency natural smoke extraction.



Emergency natural smoke extraction for mechanical exhaust fan.

- Ideal for residential buildings: up to 10,000 m³/h
- Conforms to Housing & Construction Codes
- Discrete
- Easy to install: new display and factory pre-wiring
- Natural smoke extraction opening of 20 dm²









Compliance

- Smoke extraction casing as per EN 12101-3.
- Class F400 (120).
- Extension to the 'thermal isolation' classification: as per § 74.1 of EN 12101-3.

Advantages

- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.
- 'Variable pulley' option: for on-site airflow rate adjustment.
- Choice of access direction possible, dependant on worksite configuration.
- Easy access thanks to the handles on the motor cover and access panel.

WHY CHOOSE A CYCLONE F400?

In order to fulfil the requirements of the CE markings (EN 12101-3 and the French governmental decree of the 2nd July 2004), applicable to all smoke extraction fans as of September 2005, ALDES has developed the CYCLONE F400, Class: F400-120.

FOR WHAT TYPE OF USE?

The CYCLONE F400 is a smoke extraction casing, available in 8 sizes, used to cover a wide range of airflows, from 1000 to 35000 m³/h.

It is designed for smoke extraction from commercial premises (public buildings, high-rises, commercial & industrial premises, etc.) and multi-family housing (principally 3rd & 4th Family B dwellings).

WHAT ARE THE ADVANTAGES OF THIS NEW RANGE?

Range, with a choice of options, including:

- The authorised 'thermal isolation' option C €, prevents having to place the CMEV for the premises in the same location as the smoke extraction casing, for example, in the attic space. Your ALDES agency is available to answer any of your questions.
- · Adjustable drive pulley for on-site airflow adjustment,
- Choice of discharge positioning (horizontal or vertical),
- Fitted with proximity switch, pre-cabled for easy installation.
- Adjustable pressure switch, aeraulically connected,
- All-in-One solution to save time, cabling conforms to NF-S 61.932.

Easy to maintain:

- The motor cover and access panel are fitted with handles to facilitate removal and access for maintenance.
- In addition, it is possible to choose the positioning of the transmission and the access panel for the various possible site configurations.
- Finally, belt tension adjustments are made easier by an ingenious motor mounting system and a set of belt markings.

EASY MAINTENANCE



Access panel with handles



Motor mounting to facilitate belt tension adjustments



Adjustable drive pulley.









Advantages

- 'Variable pulley' option: for on-site airflow rate adjustment.
- Choice of access direction possible, dependant on worksite configuration.
- Easy access thanks to the handles on the motor cover and access panel.

FIELD OF APPLICATION

- Smoke extraction from commercial premises (public buildings, high-rises, commercial & industrial premises, etc.) and multi-family housing (principally 3rd & 4th Family B dwellings).
- The Cyclone F400 is a smoke extraction casing only, do not use for other applications (professional kitchens, for example).

FIRE PROTECTION RATING

- CE compliant smoke extraction casing as per EN 12101-3.
- The CYCLONE F400 has been awarded F400 (120) (400°C - 120 min) classification.

DESCRIPTION

- 8 sizes of casing: for flow rates of between 1000 & 35.000m³/h.
- Airflow > 3,000 m3/h: contact us
- · Casing in galvanised steel.
- Forward curved impellor with aluminium hub.
- Belt & pulley drive.
- IP 55 class F motor, on a mount designed to allow easy adjustment of the belt tension.
- Single or two speed motor (independent coils 4/6 poles and Dahlander coupling 4/8 poles).
- 60 Hz product range, ask for details.

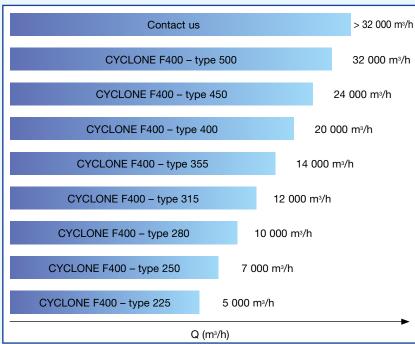
AVAILABLE OPTIONS

- 'Thermal isolation' option to prevent overheating the installation area.
- Choice of access panel and transmission positioning.
- Choice of discharge positioning (horizontal or vertical).
- Proximity switch fitted & pre-cabled.
- Adjustable pressure switch aeraulically connected (2 switches are required for 2-speed smoke extraction).
- Rain-guard kit fixings (supplied with casing but not fitted).
- All-in-One: pre-cabled relay box, protected by a cover (this option includes the proximity switch and aeraulically-connected pressure switch(es)).
- Adjustable drive pulley (except Model 500).

ACCESSORIES

- Circular flexible inlet sleeve.
- Rectangular flexible exhaust sleeve.
- Rectangular/circular exhaust sleeve adapter.
- · Anti-vibration mounting.

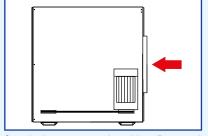
PRE-SELECTION - CYCLONE F400



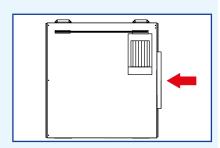
SELECTION OF ACCESS PANEL AND TRANSMISSION POSITIONING



Standard access panel position.



Standard access panel position. Door and transmission mounted to the left of the inlet turbine.



Optional access panel position. Door and transmission mounted to the right of the inlet turbine.







Cyclone F400 with proximity switch option.

Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One proximity switch option: pressure switch(es) and proximity switches pre-cabled to save time on-site.

DESCRIPTION OF OPTIONS

- Proximity switch supplied pre-cabled, attached to a galvanised steel mounting.
- Adjustable pressure switch aeraulically connected (2 switches are required for 2-speed smoke extraction). Fitted to the top of the casing alongside the motor cover.

• All-in-One option:

The wiring for the relay box is installed in the factory, as per NF-S-61932.

The proximity switch is integrated.

The aeraulically-connected pressure switch(es) are positioned on top of the casing, alongside the motor cover.

The cabinet is placed on the casing within a galvanised steel protective shell (rain & UV).

The front of the cover pivots to provide easy access to the AXONE MICRO II relay box.

Thermal isolation option:

The casing is isolated by a layer of rock-wool, attached to the inner surfaces of all four single-skin sides (the double-skinned access faces do not conduct heat).

Adapted to an interior installation, this casing restricts radiated heat from the casing caused by the high temperatures of the smoke.

- Designed to be folded by hand, the rain-guard visor is delivered within the casing. To install, attach to the bolts around the edge of the casing outlet.
- Adjustable drive pulley (except Model 500).
 Adjustments are by steps of a quarter turn over three turns

Factory setting: maximum rotation speed.

ALL-IN-ONE



All-in-One: Axone micro II

- + Proximity Switch (IP) fitted and pre-cabled.
- + aeraulically-connected pressure switch.

DIMENSIONS OF RAIN-GUARD VISOR (m)

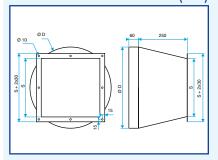


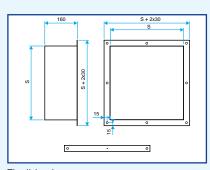
| Туре | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|
| X | 388 | 422 | 461 | 504 | 553 | 607 | 699 | 738 |
| Y | 348 | 382 | 421 | 464 | 513 | 567 | 629 | 698 |
| Z | 247 | 276 | 320 | 356 | 405 | 459 | 521 | 590 |

DESCRIPTION OF ACCESSORIES

- M0 flexible circular inlet sleeve: comprising the flexible sleeve and 2 fixing collars.
- Flexible rectangular exhaust sleeve: comprising the flexible sleeve, 4 fixing pads and one fixing collar.
- Rectangular/circular flexible exhaust adapter: comprising a flexible adapter, four fixing pads and one fixing collar.
- Anti-vibration mounting in resilient material: dimensions: L x w x th = 100 x 100 x 10 (mm).
 4 or 6 mounts are supplied, depending on the size of the casing.

ACCESSORY DIMENSIONS (mm)





Adapter

Flexible sleeve

| Туре | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|
| ØD | 400 | 450 | 500 | 560 | 630 | 710 | 800 | 800 |
| S | 288 | 322 | 361 | 404 | 453 | 507 | 569 | 638 |







Cyclone F400 with transmission access panel and cover removed.

Advantages

- Simplification of belt tension adjustment by the use of slidemountings for the motor.
- Markings on the belt to guarantee the correct settings.
- · Working at man-height.

INSTALLATION

- Can be installed either indoors or outdoors.
- It is recommended that the device be installed using an anti-vibration mounting. The anti-vibration mounting, using a resilient material, should be fitted between the base and the CYCLONE F400 (4 or 6 mounts).
- Connect the casing using the flexible sleeves attached to the inlet (and outlet when connected).
- A rain-guard visor should be used when installing the device outside.

MAINTENANCE

- The smoke extractor fan should be checked once a year to ensure it is working correctly (Article DF9). Since April 1997, the new standard, NF-S 61933 requires, in its Appendix A, a verification of all smoke extraction fans, via the relay boxes, ever quarter. No specific maintenance of the sealed bearings is required.
- Access to the transmission system is facilitated by a door, fitted with handles.
- The motor cover can easily be removed (also fitted with a handle).

ADJUSTING THE BELT TENSION

- Using a 19 or 22 mm wrench, move the motor along its rail.
- The length of the belt between the two orange marks should be equal to the value indicated on the belt.





ELECTRICAL CONNECTIONS

For smoke extraction installations:

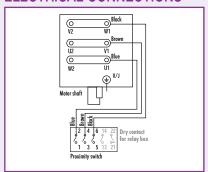
The electrical connection must be done in respect of industry best practices and in accordance with standard NF C 15-100 and NF S 61.932 "Installation rules"

The power cable must be dimensioned according to principle 471-1-2 of standard NF C 15-100: "the cross-section of channel conductors is determined by an admissible current equal to 1.5 times the rated motor current."

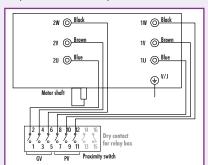
Attention: check the direction of rotation of the turbine.

Important: when starting the fan, to avoid overheating the motor, make sure that the current consumption remains below the recommended maximum current.

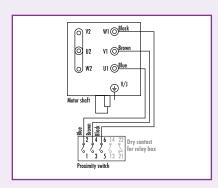
ELECTRICAL CONNECTIONS

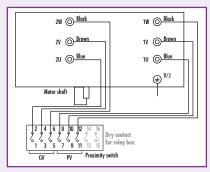


1-speed 3-P 230V1-speed 3-P 400V



2-speed Dahlander 3-P 400V





2-speed BI 3-P 400V





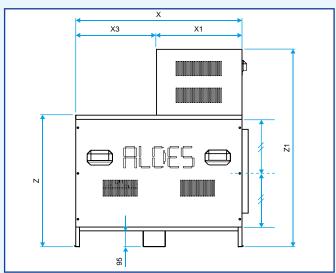


Cyclone F400 with the 'All-In-One' option.

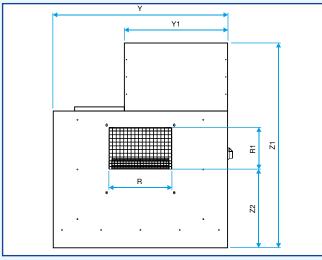
Advantages

- Minimal floor occupation dimensions.
- · Horizontal or vertical discharge.
- Simplification of belt tension adjustment by the use of slide-mountings for the motor.
- Markings on the belt to guarantee the correct settings.
- · Working at man-height.

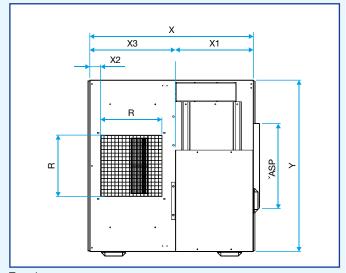
DIMENSIONS (mm) CYCLONE F400 - types 225 to 355



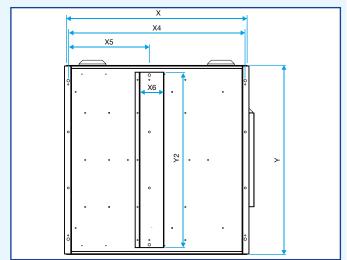
Front view



Side view



Top view



Floor coverage and fixings

| | | | | | Horiz | ontal & | vertical | exhaus | t flow | | | | | Horizor | ıtal exha | ust flow | Vertica | al exhau | st flow |
|------|------|----|------------|-----------|-------|---------|----------|--------|------------|------------|-----|-----|-------|---------|-----------|-----------|-----------|----------|-----------|
| Туре | X | X2 | X 4 | X6 | Υ | Y1 | Y2 | Z | Z 1 | Z 2 | R | R1 | Ø ASP | X1 | Х3 | X5 | X1 | Х3 | X5 |
| 225 | 870 | 59 | 850 | - | 841 | 520 | - | 672 | 1024 | 391 | 300 | 210 | 400 | 450 | 420 | - | 450 | 420 | - |
| 250 | 915 | 65 | 895 | - | 944 | 600 | - | 732 | 1165 | 437 | 321 | 233 | 450 | 502 | 413 | - | 462 | 453 | - |
| 280 | 968 | 64 | 948 | 130 | 1014 | 600 | 939 | 792 | 1225 | 455 | 364 | 262 | 500 | 502 | 466 | 447 | 462 | 506 | 575 |
| 315 | 1070 | 64 | 1050 | 112 | 1162 | 680 | 1087 | 882 | 1390 | 518 | 407 | 288 | 560 | 548 | 522 | 459 | 503 | 567 | 569 |
| 355 | 1105 | 65 | 1085 | 112 | 1256 | 680 | 1181 | 972 | 1480 | 520 | 453 | 330 | 630 | 548 | 557 | 521 | 503 | 602 | 631 |





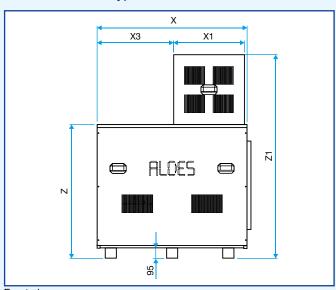


Cyclone F400 with proximity switch option.

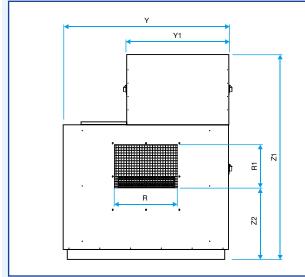
Advantages

- Minimal floor occupation dimensions.
- · Horizontal or vertical discharge.
- Simplification of belt tension adjustment by the use of slide-mountings for the motor.
- Markings on the belt to guarantee the correct settings.
- · Working at man-height.

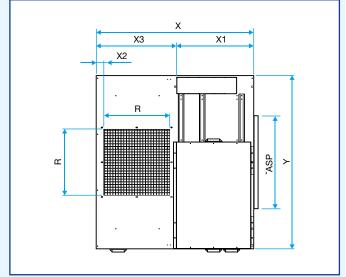
DIMENSIONS (mm) CYCLONE F400 - types 400 to 500



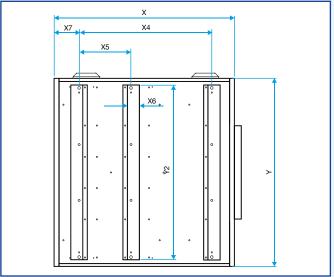




Side view



Top view



Floor coverage and fixings

| | | | | | | Horiz | ontal & | vertica | l exhaus | st flow | | | | | | Horizon exhaus | tal t flow | Vertica exhau | al st flow |
|------|------|-----|----|-----|-----|-----------|---------|---------|----------|---------|------------|------------|-----|-----|-------|-------------------|---------------|------------------|---------------|
| Туре | X | X1 | X2 | Х3 | X5 | X6 | Υ | Y1 | Y2 | Z | Z 1 | Z 2 | R | R1 | Ø ASP | X 4 | X7 | X 4 | X7 |
| 400 | 1205 | 553 | 65 | 629 | 379 | 90 | 1370 | 780 | 1295 | 1092 | 1600 | 498 | 507 | 346 | 710 | 875 | 187 | 786 | 277 |
| 450 | 1357 | 643 | 65 | 691 | 554 | 102 | 1492 | 920 | 1417 | 1212 | 1844 | 554 | 569 | 392 | 800 | 1062 | 137 | 961 | 238 |
| 500 | 1495 | 683 | 65 | 919 | 554 | 113 | 1621 | 920 | 1546 | 1332 | 1964 | 580 | 638 | 460 | 800 | 1148 | 173 | 1036 | 285 |









Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One proximity switch option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

- Airflow between 1,000 and 5,000 m³/h.
- Adjustable pulley as standard.

RANGE with choice of options

| TIANGE WITH CHOICE OF OPTIONS | |
|--|------------|
| Description | Code |
| Cyclone F400 1-speed | |
| Cyclone 225 A 1.1 kW | 11039000 |
| Cyclone 225 A 1.5 kW | 11039001 |
| Cyclone 225 A 2.2 kW | 11039002 |
| Cyclone 225 B 1.1 kW | 11039003 |
| Cyclone 225 B 1.5 kW | 11039004 |
| Cyclone F400 2-speed Dahlan | der |
| Cyclone 225 A - 2-speed Dahlander 1.2 kW / 0.3 kW | 11039100 |
| Cyclone 225 A - 2-speed Dahlander 1.6 kW / 0.4 kW | 11039101 |
| Cyclone 225 A - 2-speed Dahlander 2.2 kW / 0.55 kW | 11039102 |
| Cyclone 225 B - 2-speed Dahlander 1.2 kW / 0.3 kW | 11039103 |
| Cyclone 225 B - 2-speed Dahlander 1.6 kW / 0.4 kW | 11039104 |
| Cyclone F400 2-speed Independent (| Coils (BI) |
| Cyclone 225 A - 2-speed BI 1.1 kW / 0.3 kW | 11039200 |
| Cyclone 225 A - 2-speed BI 1.5 kW / 0.37 kW | 11039201 |
| Cyclone 225 A - 2-speed Bl 2.2 kW / 0.7 kW | 11039202 |
| Cyclone 225 B - 2-speed Bl 1.1 kW / 0.3 kW | 11039203 |
| Cyclone 225 B - 2-speed Bl 1.5 kW / 0.37 kW | 11039204 |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $870 \times 1024 \times 841$ mm. For other dimensions, see the drawings on Page 28.

FLECTRICAL CHARACTERISTICS - WEIGHT

| ELECTRICAL | | AUTERIO | 51105 - V | VEIGHT | | | |
|-------------|-----------------|-----------|-------------|-----------|------------|---------|-------------|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) |
| 225 A | 4 | 1.1 | 230/400 | 2.6 | 3.0 | 5.6 | 116 |
| 225 A | 4 | 1.5 | 230/400 | 3.3 | 3.9 | 5.5 | 120 |
| 225 A | 4 | 2.2 | 230/400 | 4.8 | 5.4 | 5.6 | 124 |
| 225 B | 4 | 1.1 | 230/400 | 2.6 | 3.0 | 5.6 | 116 |
| 225 B | 4 | 1.5 | 230/400 | 3.3 | 3.9 | 5.5 | 120 |
| | | Cyclone | F400 2-spe | ed Dahlan | der | | |
| 225 A2 Dahl | 4/8 | 1.2/0.3 | 400 | 2.9/1.3 | 3.1/1.4 | 5.5/3.1 | 119 |
| 225 A2 Dahl | 4/8 | 1.6/0.4 | 400 | 3.8/2.3 | 4.4/2.5 | 5.5/3.2 | 122 |
| 225 A2 Dahl | 4/8 | 2.2/0.55 | 400 | 5.1/2.5 | 5.7/2.7 | 5.6/3.2 | 126 |
| 225 B2 Dahl | 4/8 | 1.2/0.3 | 400 | 2.9/1.3 | 3.1/1.4 | 5.5/3.1 | 119 |
| 225 B2 Dahl | 4/8 | 1.6/0.4 | 400 | 3.8/2.3 | 4.4/2.5 | 5.5/3.2 | 122 |
| | Cyclo | ne F400 2 | 2-speed Inc | dependent | Coils (BI) | | |
| 225 A2 BI | 4/6 | 1.1/0.30 | 400 | 3/1.04 | 3.3/1.2 | 5.4/4 | 119 |
| 225 A2 BI | 4/6 | 1.5/0.37 | 400 | 3.7/1.6 | 3.9/1.8 | 5.5/4.5 | 122 |
| 225 A2 BI | 4/6 | 2.2/0.70 | 400 | 4.9/2.5 | 6.1/2.8 | 6/5.5 | 126 |
| 225 B2 BI | 4/6 | 1.1/0.30 | 400 | 3/1.4 | 3.3/1.3 | 5.4/4 | 119 |
| 225 B2 BI | 4/6 | 1.5/0.37 | 400 | 3.7/1.6 | 3.9/1.8 | 5.5/4.5 | 122 |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure.
 - Pd: Dynamic pressure in inlet duct.
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:

DP network (up & downstream) = Ps - Pd + C

Note: Do not forget the pressure drop from the network downstream of the fan, which can be notably high.

Example:

 $Q = 3600 \text{m}^3/\text{h}$

Read, from the straight scale $Pd=40\ Pa$ and from the table $C=200\ Pa$.

DP upstream network = 500 Pa

DP downstream network = 150 Pa

=> DP network (down+upstream) = 650 Pa

Calculate the corresponding Ps for casing selection: Ps = DP network + Pd - C = 650 + 40 - 200 = 490 Pa => CYCLONE F400 225 A 1.5 kW.

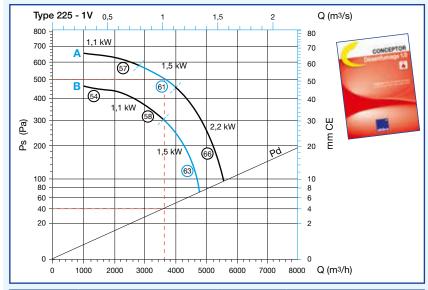
 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

AVAILABLE OPTIONS

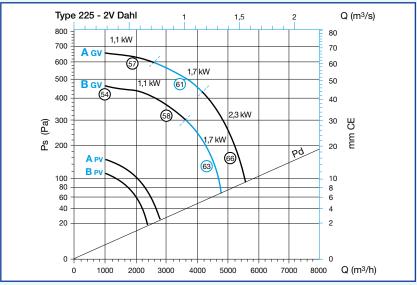
| Description | Code |
|--|----------|
| Casing configuration option | ıs |
| Horizontal discharge | OPT39300 |
| Vertical discharge | OPT39301 |
| Motor on opposite side | OPT39302 |
| Rain-guard 225 | OPT39323 |
| Screw-fit casing | OPTVISSE |
| Electrical accessory options (the All-in- includes the relay box, proximity switch a switch) | |
| All-in-One 1-speed < 8 kW | OPT39303 |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 |
| All-in-One 2-speed BI < 8 kW | OPT39311 |
| 1-speed proximity switch max. 6.5 kW | OPT39315 |
| 2-speed proximity switch max. 6.5 kW | OPT39318 |
| 100-1000 Pa pressure switch | OPT39321 |
| 2nd 100-1000 Pa pressure switch | OPT39322 |

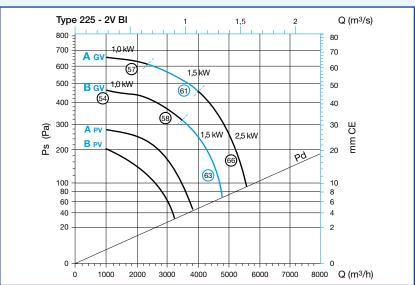
CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 400 | 11096938 |
| Flexible sleeve (Exhaust) D 225 | 11039331 |
| Flexible adapter (Exhaust) Type 225 | 11039339 |
| Anti-vibration mounting 4 parts | 11039347 |



| Q (m ³ /h) | 1000 | 2000 | 3000 | 4000 | 5000 |
|-----------------------|------|------|------|------|------|
| C (Pa) | 15 | 59 | 132 | 235 | 367 |











Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 1,000 and 7,000 m³/h.

RANGE with choice of options

| | 0040 |
|--|------------|
| Cyclone F400 1-speed | |
| Cyclone 250 A 3.0 kW | 11039005 |
| Cyclone 250 A 4.0 kW | 11039006 |
| Cyclone 250 A 5.5 kW | 11039007 |
| Cyclone 250 B 2.2 kW | 11039009 |
| Cyclone 250 B 3.0 kW | 11039010 |
| Cyclone 250 C 1.5 kW | 11039011 |
| Cyclone 250 C 2.2 kW | 11039012 |
| Cyclone 250 C3.0 kW | 11039013 |
| Cyclone F400 2-speed Dahlan | der |
| Cyclone 250 A - 2-speed Dahlander 2.8 kW / 0.7 kW | 11039105 |
| Cyclone 250 A - 2-speed Dahlander 5 kW / 1.3 kW | 11039107 |
| Cyclone 250 B - 2-speed Dahlander 2.2 kW / 0.55 kW | 11039109 |
| Cyclone 250 B - 2-speed Dahlander 2.8 kW / 0.7 kW | 11039110 |
| Cyclone 250 C - 2-speed Dahlander 1.6 kW / 0.4 kW | 11039111 |
| Cyclone 250 C - 2-speed Dahlander 2.2 kW / 0.55 kW | 11039112 |
| Cyclone 250 C - 2-speed Dahlander 2.8 kW / 0.7 kW | 11039113 |
| Cyclone F400 2-speed Independent 0 | Coils (BI) |
| Cyclone 250 A - 2-speed BI 3 kW / 1 kW | 11039205 |
| Cyclone 250 A - 2-speed BI 4.5 kW / 1.5 kW | 11039206 |
| Cyclone 250 A - 2-speed BI 6 kW / 2.2 kW | 11039207 |
| Cyclone 250 B - 2-speed Bl 2.2 kW / 0.7 kW | 11039209 |
| Cyclone 250 B - 2-speed BI 3 kW / 1 kW | 11039210 |
| Cyclone 250 C - 2-speed BI 1.5 kW / 0.37 kW | 11039211 |
| Cyclone 250 C - 2-speed BI 2.2 kW / 0.7 kW | 11039212 |
| Cyclone 250 C - 2-speed BI 3 kW / 1 kW | 11039213 |
| | |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $915 \times 1165 \times 944$ mm. For other dimensions, see the drawings on Page 28.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ELECTRICA | LUIIAI | IAOTEIT | 01100 - 1 | WEIGHT | | | |
|-------------|-----------------|------------|------------|-----------|------------|---------|-------------|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) |
| 250 A | 4 | 3.0 | 230/400 | 6.5 | 7.3 | 6 | 154 |
| 250 A | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 157 |
| 250 A | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 170 |
| 250 B | 4 | 2.2 | 230/400 | 4.8 | 5.4 | 5.6 | 150 |
| 250 B | 4 | 3.0 | 230/400 | 6.5 | 7.3 | 6 | 154 |
| 250 C | 4 | 1.5 | 230/400 | 3.4 | 3.9 | 5.5 | 157 |
| 250 C | 4 | 2.2 | 230/400 | 4.8 | 5.4 | 5.6 | 150 |
| 250 C | 4 | 3.0 | 230/400 | 6.5 | 7.3 | 6 | 154 |
| | | Cyclone | F400 2-spe | ed Dahlar | nder | | |
| 250 A2 Dahl | 4/8 | 2.8/0.7 | 400 | 5.6/2.9 | 6.5/3.2 | 5.5/4.1 | 158 |
| 250 A2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11/3.8 | 8.5/6.2 | 182 |
| 250 B2 Dahl | 4/8 | 2.2/0.55 | 400 | 5.1/2.5 | 5.7/2.8 | 5.6/3.2 | 152 |
| 250 B2 Dahl | 4/8 | 2.8/0.7 | 400 | 5.6/2.9 | 6.5/3.2 | 5.5/4.1 | 158 |
| 250 C2 Dahl | 4/8 | 1.6/0.4 | 400 | 3.8/2.2 | 4.4/2.4 | 5.5/3.2 | 148 |
| 250 C2 Dahl | 4/8 | 2.2/0.55 | 400 | 5.1/2.5 | 5.7/2.8 | 5.6/3.2 | 152 |
| 250 C2 Dahl | 4/8 | 2.8/0.7 | 400 | 5.6/2.9 | 6.5/3.2 | 5.5/4.1 | 158 |
| | Cycle | one F400 2 | 2-speed In | dependent | Coils (BI) | | |
| 250 A2 BI | 4/6 | 3.0/1.00 | 400 | 6.9/3.9 | 7.5/4.4 | 7.6/6.2 | 158 |
| 250 A2 BI | 4/6 | 4.5/1.50 | 400 | 10.2/5.4 | 11.1/5.8 | 7.5/7 | 182 |
| 250 A2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 14/7.7 | 7.8/7.4 | 193 |
| 250 B2 BI | 4/6 | 2.2/0.70 | 400 | 4.9/2.5 | 5.4/2.8 | 6/5.5 | 152 |
| 250 B2 BI | 4/6 | 3.0/1.00 | 400 | 6.9/3.9 | 7.5/4.4 | 7.6/6.2 | 158 |
| 250 C2 BI | 4/6 | 1.5/0.37 | 400 | 3.7/1.6 | 4/1.8 | 5.5/4.5 | 148 |
| 250 C2 BI | 4/6 | 2.2/0.70 | 400 | 4.9/2.5 | 5.4/2.8 | 6/5.5 | 152 |
| 250 C2 BI | 4/6 | 3.0/1.00 | 400 | 6.9/3.9 | 7.5/4.4 | 7.6/6.2 | 158 |





AIRFLOW AND ACOUSTIC **CHARACTERISTICS**

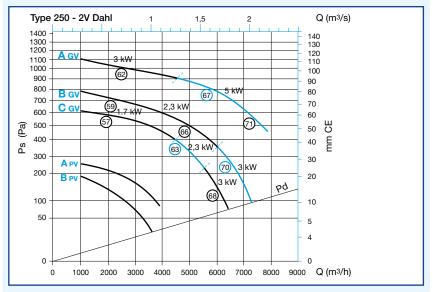
- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure.
 - Pd: Dynamic pressure in inlet duct.
- · Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that: $\Delta \mathbf{P}_{network} = \mathbf{P}_{s}$
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that: Δ Pnetwork = Ps - Pd + C C: connected exhaust correction.

Note: $\Delta P_{\text{network}}$ here includes the pressure losses from up and downstream of the fan.

• The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

Type 250 - 1V _{0,5} Q (m3/s) 1400 140 130 120 110 1100 1000 3 kW 100 62) 900 kW 90 800 80 (67) 700 70 C 2,2 kW 600 60 ⑤7_{1.5 kV} 500 50 66 400 40 63 300 30 (70) 3 kW 20 3 kW Pd 100 10 4000 5000 6000 7000 8000 9000 Q (m³/h)

| Q (m ³ /h) | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 |
|-----------------------|------|------|------|------|------|------|------|------|
| C (Pa) | 10 | 39 | 89 | 157 | 246 | 354 | 482 | 630 |

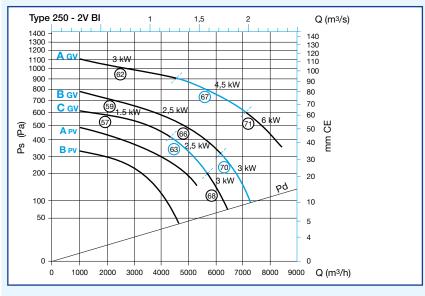




| Description | Code |
|---|----------------------------------|
| Casing configuration option | າຣ |
| Horizontal discharge | OPT39300 |
| Vertical discharge | OPT39301 |
| Motor on opposite side | OPT39302 |
| Rain-guard 250 | OPT39324 |
| Adjustable pulley 250-280 | OPT39350 |
| Screw-fit casing | OPTVISSE |
| Electrical accessory options (the All-in includes the relay box, proximity switch switch) | |
| All-in-One 1-speed < 8 kW | |
| All to Occoon and Dalet Olive | OPT39303 |
| All-in-One 2-speed Dahl < 8 kW | OPT39303 OPT39307 |
| All-in-One 2-speed BI < 8 kW | |
| | OPT39307 OPT39311 |
| All-in-One 2-speed BI < 8 kW | OPT39307 OPT39311 |
| All-in-One 2-speed BI < 8 kW 1-speed proximity switch max. 6.5 kW | OPT39307 OPT39311 OPT39315 |

CONNECTION ACCESSORIES

| Code |
|----------|
| 11096939 |
| 11039332 |
| 11039340 |
| 11039347 |
| |









Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 2,000 and 10,000 m³/h.

RANGE with choice of options

| Description | Code | | | | | | |
|---|----------|--|--|--|--|--|--|
| Cyclone F400 1-speed | | | | | | | |
| Cyclone 280 A 4.0 kW | 11039014 | | | | | | |
| Cyclone 280 A 5.5 kW | 11039015 | | | | | | |
| Cyclone 280 A 7.5 kW | 11039016 | | | | | | |
| Cyclone 280 B 3.0 kW | 11039017 | | | | | | |
| Cyclone 280 B 4.0 kW | 11039018 | | | | | | |
| Cyclone F400 2-speed Dahlander | | | | | | | |
| Cyclone 280 A - 2-speed Dahlander 3.8 kW / 1 kW | 11039114 | | | | | | |
| Cyclone 280 A - 2-speed Dahlander 5 kW / 1.3 kW | 11039115 | | | | | | |
| Cyclone 280 A - 2-speed Dahlander 7.2 kW / 1.8 kW | 11039116 | | | | | | |
| Cyclone 280 B - 2-speed Dahlander 3.8 kW / 1 kW | 11039118 | | | | | | |
| Cyclone F400 2-speed Independent Coils (BI) | | | | | | | |
| Cyclone 280 A - 2-speed BI 4.5 kW / 1.5 kW | 11039214 | | | | | | |
| Cyclone 280 A - 2-speed BI 6 kW / 2.2 kW | 11039215 | | | | | | |
| Cyclone 280 B - 2-speed Bl 3 kW / 1 kW | 11039217 | | | | | | |
| Cyclone 280 A - 2-speed BI 4.5 kW / 1.5 kW | 11039218 | | | | | | |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $968 \times 1225 \times 1014$ mm. For other dimensions, see the drawings on Page 28.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ | | | | | | | | | | |
|---|-----------------|---------|---------|-----------|----------|---------|-------------|--|--|--|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) | | | |
| 280 A | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 181 | | | |
| 280 A | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 194 | | | |
| 280 A | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 202 | | | |
| 280 B | 4 | 3.0 | 230/400 | 6.5 | 7.3 | 6 | 178 | | | |
| 280 B | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 181 | | | |
| Cyclone F400 2-speed Dahlander | | | | | | | | | | |
| 280 A2 Dahl | 4/8 | 3.8/1 | 400 | 8.46/3.95 | 9.3/4.4 | 7.5/4.8 | 164 | | | |
| 280 A2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.4/3.9 | 8.5/6.2 | 182 | | | |
| 280 A2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.8/5.6 | 7.9/4.2 | 193 | | | |
| 280 B2 Dahl | 4/8 | 3.8/1 | 400 | 8.46/3.95 | 9.3/4.4 | 7.5/4.8 | 164 | | | |
| Cyclone F400 2-speed Independent Coils (BI) | | | | | | | | | | |
| 280 A2 BI | 4/6 | 4.5/1.5 | 400 | 10.2/5.4 | 11.2/5.9 | 7.5/7 | 182 | | | |
| 280 A2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 193 | | | |
| 280 B2 BI | 4/6 | 3.0/1.0 | 400 | 6.9/3.9 | 7.5/4.3 | 7.6/6.2 | 158 | | | |
| 280 B2 BI | 4/6 | 4.5/1.5 | 400 | 10.2/5.4 | 11.2/5.9 | 7.5/7 | 182 | | | |





Q (m3/s)

140 130

120 110

100

CYCLONE F400 (120): type 280

AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure
 - Pd: Dynamic pressure in inlet duct.
- Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:
 ΔPnetwork = Ps Pd + C

C: connected exhaust correction.

Note: $\triangle P_{network}$ here includes the pressure losses from up and downstream of the **fan**.

 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

900 90 800 80 5,5 kW 60) 700 (68) 70 600 60 500 50 핑 bq 7,5 kW 400 40 4 kW Ps 300 30 20 100 10 0 8000 10000 12000 14000 16000 18000 Q (m³/h) 6000

4 kW

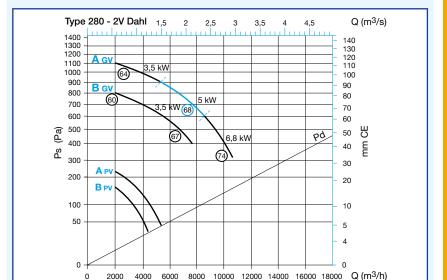
64)

Type 280 - 1V

1400 1300 1200

1100 1000

Q (m³/h) 2000 4000 6000 8000 10000 C (Pa) 24 95 213 379 592

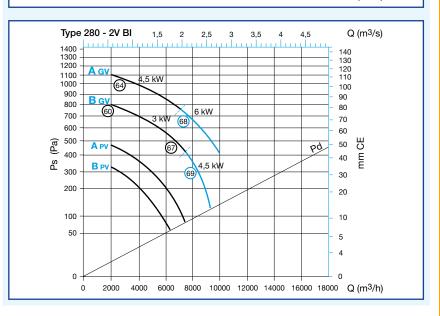


AVAILABLE OPTIONS

| Description | Code | | | | |
|--|---|--|--|--|--|
| Casing configuration options | | | | | |
| Horizontal discharge | OPT39300 | | | | |
| Vertical discharge | OPT39301 | | | | |
| Motor on opposite side | OPT39302 | | | | |
| Rain-guard 280 | OPT39325 | | | | |
| Adjustable pulley 250-280 | OPT39350 | | | | |
| Screw-fit casing | OPTVISSE | | | | |
| includes the relay box, proximity switch switch) | Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) | | | | |
| All-in-One 1-speed < 8 kW | OPT39303 | | | | |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 | | | | |
| All-in-One 2-speed Bl < 8 kW | OPT39311 | | | | |
| 1-speed proximity switch max. 6.5 kW | OPT39315 | | | | |
| 1-speed proximity switch max. 15 KW | OPT39316 | | | | |
| 2-speed proximity switch max. 6.5 kW | OPT39318 | | | | |
| 2-speed proximity switch max. 13 KW | OPT39319 | | | | |
| 100-1000 Pa pressure switch | OPT39321 | | | | |
| 2nd 100-1000 Pa pressure switch | OPT39322 | | | | |

CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 500 | 11096940 |
| Flexible sleeve (Exhaust) D 280 | 11039333 |
| Flexible adapter (Exhaust) Type 280 | 11039341 |
| Anti-vibration mounting 6 parts | 11039348 |











Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 2,000 and 12,000 m³/h.

RANGE with choice of options

| Description | Code | | | | | |
|---|------------|--|--|--|--|--|
| Cyclone F400 1-speed | | | | | | |
| Cyclone 315 A 5.5 kW | 11039019 | | | | | |
| Cyclone 315 A 7.5 kW | 11039020 | | | | | |
| Cyclone 315 A 11 kW | 11039021 | | | | | |
| Cyclone 315 B 4.0 kW | 11039022 | | | | | |
| Cyclone 315 B 5.5 kW | 11039023 | | | | | |
| Cyclone 315 B 7.5 kW | 11039024 | | | | | |
| Cyclone F400 2-speed Dahlan | der | | | | | |
| Cyclone 315 A - 2-speed Dahlander 5 kW / 1.3 kW | 11039119 | | | | | |
| Cyclone 315 A - 2-speed Dahlander 7.2 kW / 1.8 kW | 11039120 | | | | | |
| Cyclone 315 A - 2-speed Dahlander 11 kW / 3 kW | 11039121 | | | | | |
| Cyclone 315 B - 2-speed Dahlander 3.8 kW / 1 kW | 11039122 | | | | | |
| Cyclone 315 B - 2-speed Dahlander 5 kW / 1.3 kW | 11039123 | | | | | |
| Cyclone 315 B - 2-speed Dahlander 7.2 kW / 1.8 kW | 11039124 | | | | | |
| Cyclone F400 2-speed Independent 0 | Coils (BI) | | | | | |
| Cyclone 315 A - 2-speed BI 6 kW / 2.2 kW | 11039219 | | | | | |
| Cyclone 315 A - 2-speed BI 10 kW / 3.3 kW | 11039221 | | | | | |
| Cyclone 315 B - 2-speed BI 4.5 kW / 1.5 kW | 11039222 | | | | | |
| Cyclone 315 B - 2-speed BI 6 kW / 2.2 kW | 11039223 | | | | | |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $1070 \times 1390 \times 1162 \text{ mm}$. For other dimensions, see the drawings on Page 28.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ELECTRICAL CHARACTERISTICS - WEIGHT | | | | | | | |
|-------------------------------------|-----------------|-----------|-------------|-----------|------------|---------|-------------|
| | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) |
| 315 A | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 232 |
| 315 A | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 240 |
| 315 A | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 367 |
| 315 B | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 219 |
| 315 B | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 232 |
| 315 B | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 240 |
| | | Cyclone | F400 2-spe | ed Dahlar | der | | |
| 315 A2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.5/3.9 | 8.5/6.2 | 244 |
| 315 A2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.5/5.6 | 7.9/4.2 | 255 |
| 315 A2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 292 |
| 315 B2 Dahl | 4/8 | 3.8/1 | 400 | 8.5/4 | 9.3/4.4 | 7.5/4.8 | 226 |
| 315 B2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.5/3.9 | 8.5/6.2 | 244 |
| 315 B2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.5/5.6 | 7.9/4.2 | 255 |
| | Cyclo | ne F400 2 | 2-speed Inc | dependent | Coils (BI) | | |
| 315 A2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 255 |
| 315 A2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 292 |
| 315 B2 BI | 4/6 | 4.5/1.5 | 400 | 10.2/5.4 | 11.1/5.9 | 7.5/7 | 244 |
| 315 B2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 255 |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
- Ps: Static inlet pressure.
- Pd: Dynamic pressure in inlet duct.
- Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:
 ΔPnetwork = Ps Pd + C

C: connected exhaust correction.

Note: $\Delta P_{\text{network}}$ here includes the pressure losses from up and downstream of the fan.

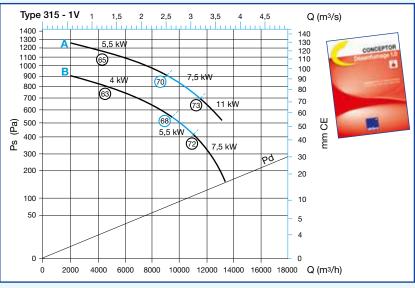
 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

AVAILABLE OPTIONS

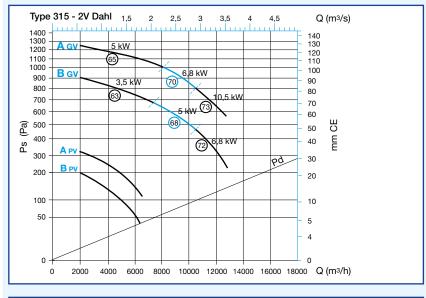
| Description | Code | | | | |
|---|----------|--|--|--|--|
| Casing configuration options | | | | | |
| Horizontal discharge | OPT39300 | | | | |
| Vertical discharge | OPT39301 | | | | |
| Motor on opposite side | OPT39302 | | | | |
| Rain-guard 315 | OPT39326 | | | | |
| Adjustable pulley 315-355 | OPT39351 | | | | |
| Screw-fit casing | OPTVISSE | | | | |
| Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) | | | | | |
| All-in-One 1-speed < 8 kW | OPT39303 | | | | |
| All-in-One 1-speed < 13 kW | OPT39304 | | | | |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 | | | | |
| All-in-One 2-speed Dahl < 13 kW | OPT39308 | | | | |
| All-in-One 2-speed BI < 8 kW | OPT39311 | | | | |
| All-in-One 2-speed BI < 13 kW | OPT39312 | | | | |
| 1-speed proximity switch max. 6.5 kW | OPT39315 | | | | |
| 1-speed proximity switch max. 15 KW | OPT39316 | | | | |
| 2-speed proximity switch max. 6.5 kW | OPT39318 | | | | |
| 2-speed proximity switch max. 13 KW | OPT39319 | | | | |
| 100-1000 Pa pressure switch | OPT39321 | | | | |
| 2nd 100-1000 Pa pressure switch | OPT39322 | | | | |

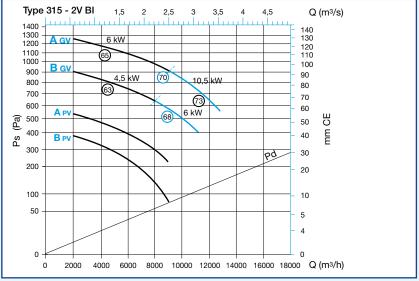
CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 560 | 11096941 |
| Flexible sleeve (Exhaust) D 315 | 11039334 |
| Flexible adapter (Exhaust) Type 315 | 11039342 |
| Anti-vibration mounting 6 parts | 11039348 |



| Q (m ³ /h) | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 |
|-----------------------|------|------|------|------|-------|-------|
| C (Pa) | 15 | 61 | 137 | 244 | 381 | 548 |











Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 2,000 and 14,000 m³/h.

RANGE with choice of options

| Description | Code | | | | | |
|--|----------|--|--|--|--|--|
| Cyclone F400 1-speed | | | | | | |
| Cyclone 355 A 7.5 kW | 11039025 | | | | | |
| Cyclone 355 A 11 kW | 11039026 | | | | | |
| Cyclone 355 B 5.5 kW | 11039027 | | | | | |
| Cyclone 355 B 7.5 kW | 11039028 | | | | | |
| Cyclone 355 C 4.0 kW | 11039029 | | | | | |
| Cyclone 355 C 5.5 kW | 11039030 | | | | | |
| Cyclone 355 C 7.5 kW | 11039031 | | | | | |
| Cyclone F400 2-speed Dahlan | der | | | | | |
| Cyclone 355 A - 2-speed | 11039125 | | | | | |
| Dahlander 7.2 kW/1.8 kW | | | | | | |
| Cyclone 355 A - 2-speed | 11039126 | | | | | |
| Dahlander 11 kW/3 kW | | | | | | |
| Cyclone 355 B - 2-speed | 11039127 | | | | | |
| Dahlander 5 kW/1.3 kW | | | | | | |
| Cyclone 355 B - 2-speed | 11039128 | | | | | |
| Dahlander 7.2 kW/1.8 kW | | | | | | |
| Cyclone 355 C - 2-speed | 11039129 | | | | | |
| Dahlander 3.8 kW/1 kW | | | | | | |
| Cyclone 355 C - 2-speed | 11039130 | | | | | |
| Dahlander 5 kW/1.3 kW | | | | | | |
| Cyclone 355 C - 2-speed | 11039131 | | | | | |
| Dahlander 7.2 kW/1.8 kW | | | | | | |
| Cyclone F400 2-speed Independent (| | | | | | |
| Cyclone 355 A - 2-speed - BI 10 kW/3.3 kW | | | | | | |
| Cyclone 355 B - 2-speed - Bl 6 kW/2.2 kW | | | | | | |
| Cyclone 355 C - 2-speed - BI 4.5 kW/1.5 kW | | | | | | |
| Cyclone 355 C - 2-speed - BI 6 kW/2.2 kW | 11039230 | | | | | |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $1105 \times 1480 \times 1256$ mm. For other dimensions, see the drawings on Page 28.

ELECTRICAL CHARACTERISTICS - WEIGHT

| LLLOTRIOAL GHARAGTERISTICS - WEIGHT | | | | | | | |
|-------------------------------------|-----------------|------------|-------------|-----------|------------|---------|-------------|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) |
| 355 A | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 273 |
| 355 A | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 300 |
| 355 B | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 265 |
| 355 B | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 273 |
| 355 C | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 252 |
| 355 C | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 265 |
| 355 C | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 273 |
| | | Cyclone | F400 2-spe | ed Dahlar | nder | | |
| 355 A2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.5/5.6 | 7.9/4.2 | 288 |
| 355 A2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 325 |
| 355 B2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.4/3.9 | 8.5/6.2 | 277 |
| 355 B2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.5/5.6 | 7.9/4.2 | 288 |
| 355 C2 Dahl | 4/8 | 3.8/1 | 400 | 8.5/4 | 9.3/4.4 | 7.5/4.8 | 259 |
| 355 C2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.4/3.9 | 8.5/6.2 | 277 |
| 355 C2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 17.5/5.6 | 7.9/4.2 | 288 |
| | Cycle | one F400 2 | 2-speed Inc | dependent | Coils (BI) | | |
| 355 A2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 325 |
| 355 B2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 288 |
| 355 C2 BI | 4/6 | 4.5/1.5 | 400 | 10.2/5.4 | 11.2/5.9 | 7.5/7 | 277 |
| 355 C2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 288 |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust
 - Ps: Static inlet pressure
 - Pd: Dynamic pressure in inlet duct
- Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:
 ΔPnetwork = Ps Pd + C

C: connected exhaust correction

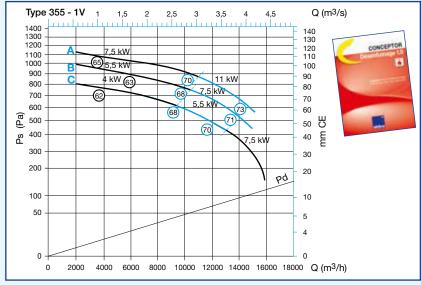
Note: $\Delta P_{network}$ here includes the pressure losses from up and downstream of the fan.

 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

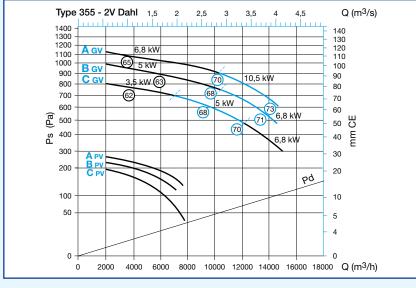
| Description | Code | | | | |
|---|----------|--|--|--|--|
| Casing configuration options | | | | | |
| Horizontal discharge | OPT39300 | | | | |
| Vertical discharge | OPT39301 | | | | |
| Motor on opposite side | OPT39302 | | | | |
| Rain-guard 355 | OPT39327 | | | | |
| Adjustable pulley 315-355 | OPT39351 | | | | |
| Screw-fit casing | OPTVISSE | | | | |
| Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) | | | | | |
| All-in-One 1-speed < 8 kW | OPT39303 | | | | |
| All-in-One 1-speed < 13 kW | OPT39304 | | | | |
| All-in-One 1-speed < 23 kW | OPT39305 | | | | |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 | | | | |
| All-in-One 2-speed Dahl < 13 kW | OPT39308 | | | | |
| All-in-One 2-speed BI < 8 kW | OPT39311 | | | | |
| All-in-One 2-speed BI < 13 kW | OPT39312 | | | | |
| 1-speed proximity switch max. 6.5 kW | OPT39315 | | | | |
| 1-speed proximity switch max. 15 KW | OPT39316 | | | | |
| 2-speed proximity switch max. 6.5 kW | OPT39318 | | | | |
| 2-speed proximity switch max. 13 KW | OPT39319 | | | | |
| 100-1000 Pa pressure switch | OPT39321 | | | | |
| 2nd 100-1000 Pa pressure switch | OPT39322 | | | | |

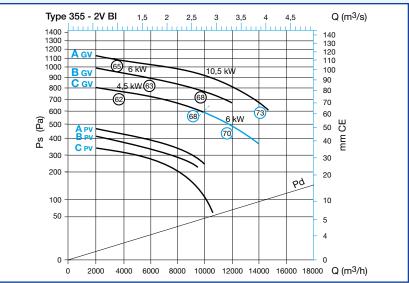
CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 630 | 11096942 |
| Flexible sleeve (Exhaust) D 355 | 11039335 |
| Flexible adapter (Exhaust) Type 355 | 11039343 |
| Anti-vibration mounting 6 parts | 11039348 |



| Q (m ³ /h) | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 |
|-----------------------|------|------|------|------|-------|-------|-------|
| C (Pa) | 9 | 37 | 83 | 147 | 230 | 332 | 451 |











Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 2,000 and 20,000 m³/h.

RANGE with choice of options

| Description | Code |
|---|-------------|
| Cyclone F400 1-speed | |
| Cyclone 400 A - 7.5 kW | 11039032 |
| Cyclone 400 A - 11 kW | 11039033 |
| Cyclone 400 A - 15 kW | 11039034 |
| Cyclone 400 B - 5.5 kW | 11039035 |
| Cyclone 400 B - 7.5 kW | 11039036 |
| Cyclone 400 B - 11 kW | 11039037 |
| Cyclone 400 C - 4.0 kW | 11039038 |
| Cyclone 400 C - 5.5 kW | 11039039 |
| Cyclone 400 C - 7.5 kW | 11039040 |
| Cyclone F400 2-speed Dahlan | der |
| Cyclone 400 A - 2V | 11039132 |
| Dahlander 7.2 kW/1.8 kW | |
| Cyclone 400 A - 2V | 11039133 |
| Dahlander 11 kW/3 kW | |
| Cyclone 400 A - 2V | 11039134 |
| Dahlander 14 kW/3.5 kW | |
| Cyclone 400 B - 2V | 11039135 |
| Dahlander 5 kW/1.3 kW | |
| Cyclone 400 B - 2V | 11039136 |
| Dahlander 7.2 kW/1.8 kW | |
| Cyclone 400 B - 2V | 11039137 |
| Dahlander 11 kW/3 kW | 11000100 |
| Cyclone 400 C - 2V | 11039138 |
| Dahlander 3.8 kW/1 kW | 11000100 |
| Cyclone 400 C - 2V Dahlander 5 kW/1.3 kW | 11039139 |
| Cyclone 400 C - 2V | 11039140 |
| Dahlander 7.2 kW/1.8 kW | 11039140 |
| |) -: - (DI) |
| Cyclone F400 2-speed Independent (| |
| Cyclone 400 A - 2-speed BI 10 kW / 3.3 kW | |
| Cyclone 400 A - 2-speed BI 16 kW / 6.5 kW | |
| Cyclone 400 B - 2-speed Bl 6 kW / 2.2 kW | |
| Cyclone 400 B - 2-speed Bl 10 kW / 3.3 kW | 11039237 |
| Cyclone 400 C - 2-speed BI 4.5 kW / 1.5 kW | 11039238 |
| Cyclone 400 C - 2-speed BI 6 kW / 2.2 kW | 11039239 |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $1205 \times 1600 \times 1370$ mm. For other dimensions, see the drawings on Page 29.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ELECTRICAL CHARACTERISTICS - WEIGHT | | | | | | | | | |
|-------------------------------------|-----------------|------------|------------|------------|------------|---------|-------------|--|--|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | lmax (A) | ld/IN | Weight (kg) | | |
| 400 A | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 352 | | |
| 400 A | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 379 | | |
| 400 A | 4 | 15.0 | 230/400 | 29.1 | 33.0 | 5.8 | 398 | | |
| 400 B | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 344 | | |
| 400 B | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 352 | | |
| 400 B | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 379 | | |
| 400 C | 4 | 4.0 | 230/400 | 8.2 | 9.2 | 6.2 | 331 | | |
| 400 C | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 344 | | |
| 400 C | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 352 | | |
| | | Cyclone | F400 2-sp | eed Dahlar | nder | | | | |
| 400 A2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 367 | | |
| 400 A2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 404 | | |
| 400 A2 Dahl | 4/8 | 14/3.5 | 400 | 26.5/8.5 | 30/9.4 | 7.2/4.2 | 427 | | |
| 400 B2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.4/3.8 | 8.5/6.2 | 356 | | |
| 400 B2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 367 | | |
| 400 B2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 404 | | |
| 400 C2 Dahl | 4/8 | 3.8/1 | 400 | 8.5/4 | 9.3/4.4 | 7.5/4.8 | 338 | | |
| 400 C2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.4/3.8 | 8.5/6.2 | 356 | | |
| 400 C2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 367 | | |
| | Cycl | one F400 2 | 2-speed In | dependent | Coils (BI) | | | | |
| 400 A2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 404 | | |
| 400 A2 BI | 4/6 | 16.0/6.5 | 400 | 28.4/12.5 | 31/13.8 | 8.5/7.6 | 427 | | |
| 400 B2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 367 | | |
| 400 B2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 404 | | |
| 400 C2 BI | 4/6 | 4.5/1.5 | 400 | 10.2/5.4 | 11.1/5.9 | 7.5/7 | 356 | | |
| 400 C2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 367 | | |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure
 - Pd: Dynamic pressure in inlet duct.
- Using the selection scales:
 - For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
 - For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:
 ΔPnetwork = Ps Pd + C

C: connected exhaust correction.

Note: $\Delta P_{\text{network}}$ here includes the pressure losses from up and downstream of the fan.

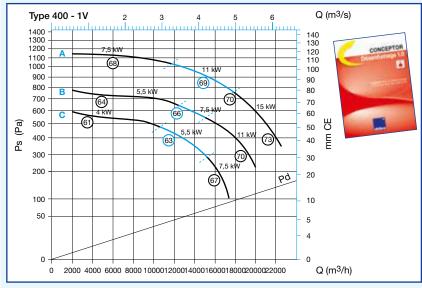
 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

AVAILABLE OPTIONS

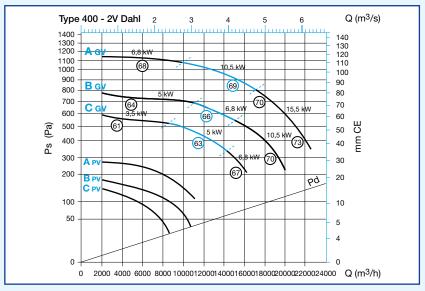
| Description | Code | | | | | | |
|---|----------|--|--|--|--|--|--|
| Casing configuration option | ıs | | | | | | |
| Horizontal discharge | OPT39300 | | | | | | |
| Vertical discharge | OPT39301 | | | | | | |
| Motor on opposite side | OPT39302 | | | | | | |
| Rain-guard 400 | OPT39328 | | | | | | |
| Adjustable pulley 400 | OPT39352 | | | | | | |
| Screw-fit casing | OPTVISSE | | | | | | |
| Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) | | | | | | | |
| All-in-One 1-speed < 8 kW | OPT39303 | | | | | | |
| All-in-One 1-speed < 13 kW | OPT39304 | | | | | | |
| All-in-One 1-speed < 23 kW | OPT39305 | | | | | | |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 | | | | | | |
| All-in-One 2-speed Dahl < 13 kW | OPT39308 | | | | | | |
| All-in-One 2-speed Dahl < 23 kW | OPT39309 | | | | | | |
| All-in-One 2-speed BI < 8 kW | OPT39311 | | | | | | |
| All-in-One 2-speed BI < 13 kW | OPT39312 | | | | | | |
| All-in-One 2-speed BI < 23 kW | OPT39313 | | | | | | |
| 1-speed proximity switch max. 6.5 kW | OPT39315 | | | | | | |
| 1-speed proximity switch max. 15 KW | OPT39316 | | | | | | |
| 2-speed proximity switch max. 6.5 kW | OPT39318 | | | | | | |
| 2-speed proximity switch max. 13 KW | OPT39319 | | | | | | |
| 100-1000 Pa pressure switch | OPT39321 | | | | | | |
| 2nd 100-1000 Pa pressure switch | OPT39322 | | | | | | |

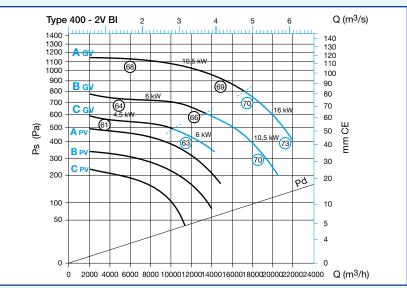
CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 710 | 11096930 |
| Flexible sleeve (Exhaust) D 400 | 11039336 |
| Flexible adapter (Exhaust) Type 400 | 11039344 |
| Anti-vibration mounting 6 parts | 11039348 |



| Q (m ³ /h) | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | 22000 |
|-----------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| C (Pa) | 6 | 24 | 53 | 94 | 147 | 212 | 288 | 376 | 476 | 588 | 712 |





aldes







Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 4,000 and 24,000 m³/h.

RANGE with choice of options

| Description | Code |
|--|------------|
| Cyclone F400 1-speed | |
| Cyclone 450 A 7.5 kW | 11039041 |
| Cyclone 450 A 11 kW | 11039042 |
| Cyclone 450 A 15 kW | 11039043 |
| Cyclone 450 B 5.5 kW | 11039044 |
| Cyclone 450 B 7.5 kW | 11039045 |
| Cyclone 450 B 11 kW | 11039046 |
| Cyclone F400 2-speed Dahlan | der |
| Cyclone 450 A - 2V Dahlander 7.2 kW/1.8 kW | 11039141 |
| Cyclone 450 A - 2V Dahlander 11 kW/3 kW | 11039142 |
| Cyclone 450 A - 2V Dahlander 14 kW / 3.5 kW | 11039143 |
| Cyclone 450 B - 2V Dahlander 5 kW / 1.3 kW | 11039144 |
| Cyclone 450 B - 2V Dahlander 7.2 kW/1.8 kW | 11039145 |
| Cyclone 450 B - 2V Dahlander 11 kW / 3 kW | 11039146 |
| Cyclone F400 2-speed Independent 0 | Coils (BI) |
| Cyclone 450 A - 2-speed BI 10 kW / 3.3 kW | 11039242 |
| Cyclone 450 A - 2-speed BI 16 kW / 6.5 kW | 11039243 |
| Cyclone 450 B - 2-speed BI 6 kW / 2.2 kW | 11039244 |
| Cyclone 450 B - 2-speed BI 10 kW / 3.3 kW | 11039246 |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = $1357 \times 1844 \times 1492$ mm. For other dimensions, see the drawings on Page 29.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ELECTRICAL CHARACTERISTICS WEIGHT | | | | | | | | | |
|-----------------------------------|-----------------|------------|------------|-----------|------------|---------|-------------|--|--|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) | | |
| 450 A | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 458 | | |
| 450 A | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 485 | | |
| 450 A | 4 | 15.0 | 230/400 | 29.1 | 33.0 | 5.8 | 504 | | |
| 450 B | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 450 | | |
| 450 B | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 458 | | |
| 450 B | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 485 | | |
| | | Cyclone | F400 2-spe | ed Dahlar | nder | | | | |
| 450 A2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 473 | | |
| 450 A2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 510 | | |
| 450 A2 Dahl | 4/8 | 14/3.5 | 400 | 26.5/8.5 | 29/9.5 | 7.2/4.2 | 533 | | |
| 450 B2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.5/3.9 | 8.5/6.2 | 462 | | |
| 450 B2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 473 | | |
| 450 B2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 510 | | |
| | Cycle | one F400 2 | 2-speed In | dependent | Coils (BI) | | | | |
| 450 A2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 510 | | |
| 450 A2 BI | 4/6 | 16.0/6.5 | 400 | 28.4/12.5 | 31/13.8 | 8.5/7.6 | 533 | | |
| 450 B2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 473 | | |
| 450 B2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 510 | | |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure.
- Pd: Dynamic pressure in inlet duct.
- Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
- For casings with **connected exhaust ducts** (in

Code

OPT39321

OPT39322

attic spaces for example), select a casing so that: $\Delta P_{network} = P_s - P_d + C$

 Δ Pnetwork = Ps - Pd + 0 C: connected exhaust correction.

Note: $\Delta P_{network}$ here includes the pressure losses from up and downstream of the fan.

 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

AVAILABLE OPTIONS

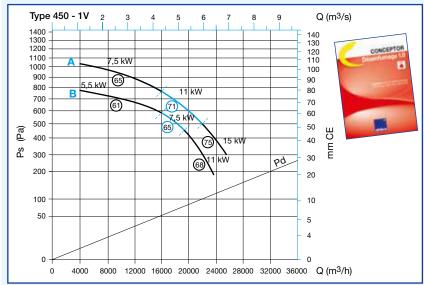
| Horizontal discharge | Casing configuration options | | | | | | | |
|---|---|----------|--|--|--|--|--|--|
| Motor on opposite side Rain-guard 450 Adjustable pulley 450 OPT39329 Adjustable pulley 450 OPT39353 Screw-fit casing Clectrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW OPT39303 All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 | Horizontal discharge | OPT39300 | | | | | | |
| Adjustable pulley 450 Adjustable pulley 450 OPT39329 Screw-fit casing OPTVISSE Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW OPT39303 All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39315 1-speed proximity switch max. 6.5 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 | Vertical discharge | OPT39301 | | | | | | |
| Adjustable pulley 450 Screw-fit casing DPTVISSE Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW All-in-One 1-speed < 13 kW OPT39303 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39315 1-speed proximity switch max. 6.5 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | Motor on opposite side | OPT39302 | | | | | | |
| Screw-fit casing OPTVISSE Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW OPT39303 All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39315 1-speed proximity switch max. 6.5 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | Rain-guard 450 | OPT39329 | | | | | | |
| Electrical accessory options (the All-in-One option includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW OPT39303 All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 23 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39315 1-speed proximity switch max. 6.5 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | Adjustable pulley 450 | OPT39353 | | | | | | |
| includes the relay box, proximity switch and pressure switch) All-in-One 1-speed < 8 kW OPT39303 All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 23 kW OPT39311 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39318 2-speed proximity switch max. 15 KW OPT39318 | Screw-fit casing | OPTVISSE | | | | | | |
| All-in-One 1-speed < 13 kW OPT39304 All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | includes the relay box, proximity switch and pressure | | | | | | | |
| All-in-One 1-speed < 23 kW OPT39305 All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 23 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39311 All-in-One 2-speed Bl < 23 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 kW OPT39319 | All-in-One 1-speed < 8 kW | OPT39303 | | | | | | |
| All-in-One 2-speed Dahl < 8 kW OPT39307 All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | All-in-One 1-speed < 13 kW | OPT39304 | | | | | | |
| All-in-One 2-speed Dahl < 13 kW OPT39308 All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | All-in-One 1-speed < 23 kW | OPT39305 | | | | | | |
| All-in-One 2-speed Dahl < 23 kW OPT39309 All-in-One 2-speed Bl < 8 kW OPT39311 All-in-One 2-speed Bl < 13 kW OPT39312 All-in-One 2-speed Bl < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 kW OPT39319 | All-in-One 2-speed Dahl < 8 kW | OPT39307 | | | | | | |
| All-in-One 2-speed BI < 8 kW OPT39311 All-in-One 2-speed BI < 13 kW OPT39312 All-in-One 2-speed BI < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 kW OPT39319 | All-in-One 2-speed Dahl < 13 kW | OPT39308 | | | | | | |
| All-in-One 2-speed BI < 13 kW OPT39312 All-in-One 2-speed BI < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 kW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 kW OPT39319 | All-in-One 2-speed Dahl < 23 kW | OPT39309 | | | | | | |
| All-in-One 2-speed BI < 23 kW OPT39313 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | All-in-One 2-speed BI < 8 kW | OPT39311 | | | | | | |
| 1-speed proximity switch max. 6.5 kW OPT39315 1-speed proximity switch max. 15 KW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | All-in-One 2-speed BI < 13 kW | OPT39312 | | | | | | |
| 1-speed proximity switch max. 15 KW OPT39316 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | All-in-One 2-speed BI < 23 kW | OPT39313 | | | | | | |
| 2-speed proximity switch max. 6.5 kW OPT39318 2-speed proximity switch max. 13 KW OPT39319 | 1-speed proximity switch max. 6.5 kW | OPT39315 | | | | | | |
| 2-speed proximity switch max. 13 KW OPT39319 | 1-speed proximity switch max. 15 KW | OPT39316 | | | | | | |
| | 2-speed proximity switch max. 6.5 kW | OPT39318 | | | | | | |
| 2-speed proximity switch max. 22 KW OPT39320 | 2-speed proximity switch max. 13 KW | OPT39319 | | | | | | |
| | 2-speed proximity switch max. 22 KW | OPT39320 | | | | | | |

CONNECTION ACCESSORIES

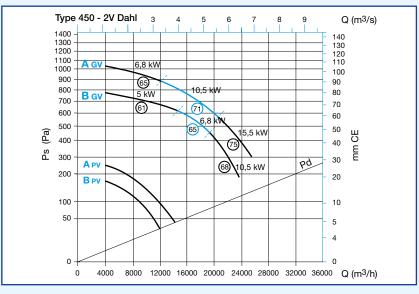
2nd 100-1000 Pa pressure switch

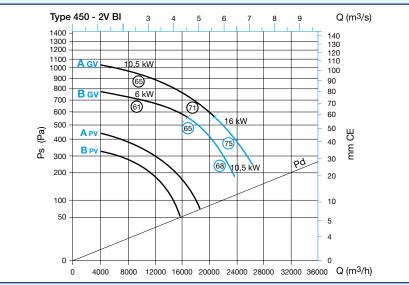
100-1000 Pa pressure switch

| Description | Code |
|--|----------|
| Flexible sleeve D 800 | 11096931 |
| Flexible sleeve (Exhaust) D 450 | 11039337 |
| Flexible adapter (Exhaust) Type 450 | 11039345 |
| Anti-vibration mounting 6 parts | 11039348 |



| Q (m ³ /h) | 4000 | 8000 | 12000 | 16000 | 20000 | 24000 |
|-----------------------|------|------|-------|-------|-------|-------|
| C (Pa) | 15 | 61 | 137 | 244 | 382 | 550 |











Advantages

- Proximity switch option: simplified cabling for faster installation.
- All-in-One option: relay boxes, pressure switch(es) and proximity switches pre-cabled to save time on-site.
- Thermal isolation option: to avoid having to install CMEV systems in the attic spaces.

DESCRIPTION

• Airflow between 4,000 and 32,000 m³/h.

RANGE with choice of options

| Description | Code |
|--|---------------|
| Cyclone F400 1-speed | Code |
| Cyclone 500 A 11 kW | 11039047 |
| Cyclone 500 A 11 kW | 11039047 |
| Cyclone 500 A 13 kW | 11039048 |
| Cyclone 500 B 7.5 kW | 11039049 |
| Cyclone 500 B 7.5 kW | |
| • | 11039051 |
| Cyclone 500 B 15 kW | 11039052 |
| Cyclone 500 C 5.5 kW | 11039053 |
| Cyclone 500 C 7.5 kW | 11039054 |
| Cyclone 500 C 11 kW | 11039055 |
| Cyclone F400 2-speed Dahlar | |
| Cyclone 500 A - 2 V | 11039147 |
| Dahlander 11 kW / 3 kW | |
| Cyclone 500 A - 2 V | 11039148 |
| Dahlander 14 kW / 3.5 kW | |
| Cyclone 500 A - 2 V | 11039149 |
| Dahlander 20 kW / 5 kW | |
| Cyclone 500 B - 2 V | 11039150 |
| Dahlander 7.2 kW / 1.8 kW | |
| Cyclone 500 B - 2 V | 11039151 |
| Dahlander 11 kW / 3 kW | 11000150 |
| Cyclone 500 B - 2 V | 11039152 |
| Dahlander 14 kW / 3.5 kW | 11000150 |
| Cyclone 500 C - 2 V | 11039153 |
| Dahlander 5 kW / 1.3 kW | 11000154 |
| Cyclone 500 C - 2 V Dahlander 7.2 kW / 1.8 kW | 11039154 |
| Cyclone 500 C - 2 V | 11039155 |
| Dahlander 11 kW / 3 kW | 11039133 |
| | 0 - 11 - (D1) |
| Cyclone F400 2-speed Independent | |
| Cyclone 500 A - 2-speed BI 10 kW / 3.3 kW | |
| Cyclone 500 A - 2-speed BI 16 kW / 6.5 kW | |
| Cyclone 500 A - 2-speed BI 20 kW / 8.5 kW | 11039249 |
| Cyclone 500 B - 2-speed BI 10 kW / 3.3 kW | 11039251 |
| Cyclone 500 B - 2-speed BI 16 kW / 6.5 kW | 11039252 |
| Cyclone 500 C - 2-speed BI 6 kW / 2.2 kW | |
| Cyclone 500 C - 2-speed BI 10 kW / 3.3 kW | |

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = 1495 x 1964 x 1621 mm. For other dimensions, see the drawings on Page 29.

ELECTRICAL CHARACTERISTICS - WEIGHT

| ELLOTHIOAL OHAHAOTEHIOHOO - WEIGHT | | | | | | | | | |
|------------------------------------|-----------------|------------|------------|------------|------------|---------|-------------|--|--|
| Туре | Number of Poles | P (kW) | U (V) | IN (A) | Imax (A) | ld/IN | Weight (kg) | | |
| 500 A | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 549 | | |
| 500 A | 4 | 15.0 | 230/400 | 29.1 | 33.0 | 5.8 | 568 | | |
| 500 A | 4 | 22.0 | 230/400 | 41 | 45.1 | 7 | 615 | | |
| 500 B | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 522 | | |
| 500 B | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 549 | | |
| 500 B | 4 | 15.0 | 230/400 | 29.1 | 33.0 | 5.8 | 568 | | |
| 500 C | 4 | 5.5 | 230/400 | 11 | 12.7 | 6.5 | 514 | | |
| 500 C | 4 | 7.5 | 230/400 | 14.8 | 16.8 | 6.7 | 522 | | |
| 500 C | 4 | 11.0 | 230/400 | 22.1 | 23.7 | 6 | 549 | | |
| | | Cyclone | F400 2-sp | eed Dahlar | nder | | | | |
| 500 A2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 574 | | |
| 500 A2 Dahl | 4/8 | 14/3.5 | 400 | 26.5/8.5 | 29/9.5 | 7.2/4.2 | 597 | | |
| 500 A2 Dahl | 4/8 | 20/5 | 400 | 38.6/14.1 | 42/15.5 | 8.8/5.1 | 641 | | |
| 500 B2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 537 | | |
| 500 B2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 574 | | |
| 500 B2 Dahl | 4/8 | 14/3.5 | 400 | 26.5/8.5 | 29/9.5 | 7.2/4.2 | 597 | | |
| 500 C2 Dahl | 4/8 | 5.0/1.3 | 400 | 10.4/3.5 | 11.5/3.9 | 8.5/6.2 | 526 | | |
| 500 C2 Dahl | 4/8 | 7.2/1.8 | 400 | 16.5/5.1 | 18/5.6 | 7.9/4.2 | 537 | | |
| 500 C2 Dahl | 4/8 | 11/3 | 400 | 21.0/7 | 23.1/7.7 | 7/4.3 | 574 | | |
| | Cycl | one F400 2 | 2-speed In | dependent | Coils (BI) | | | | |
| 500 A2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 574 | | |
| 500 A2 BI | 4/6 | 16/6.5 | 400 | 28.4/12.5 | 31/13.8 | 8.5/7.6 | 597 | | |
| 500 A2 BI | 4/6 | 20/8.5 | 400 | 39.4/16.3 | 43/18 | 9/8.7 | 641 | | |
| 500 B2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 574 | | |
| 500 B2 BI | 4/6 | 16/6.5 | 400 | 28.4/12.5 | 31/13.8 | 8.5/7.6 | 597 | | |
| 500 C2 BI | 4/6 | 6.0/2.2 | 400 | 13.7/7 | 15/7.7 | 7.8/7.4 | 537 | | |
| 500 C2 BI | 4/6 | 10/3.3 | 400 | 22/8.7 | 24/9.5 | 7/4 | 574 | | |





AIRFLOW AND ACOUSTIC CHARACTERISTICS

- Curves as per NF EN ISO 5801 Assy. C: Inlet connected, free exhaust.
 - Ps: Static inlet pressure
 - Pd: Dynamic pressure in inlet duct.
- Using the selection scales:
- For casings with free exhaust outlets (terrace, roof for example), select a casing so that:
 ΔPnetwork = Ps
- For casings with connected exhaust ducts (in attic spaces for example), select a casing so that:
 ΔPnetwork = Ps Pd + C

C: connected exhaust correction.

Note: $\Delta P_{\text{network}}$ here includes the pressure losses from up and downstream of the fan.

 The circled values correspond to the acoustic pressure levels at 6 m from the casing (in dB(A)).

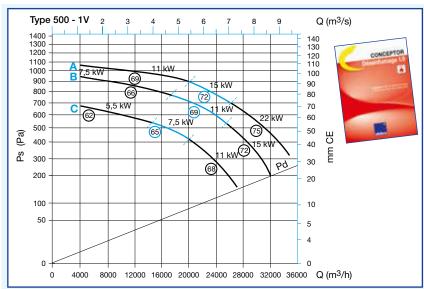
Casing configuration options

AVAILABLE OPTIONS

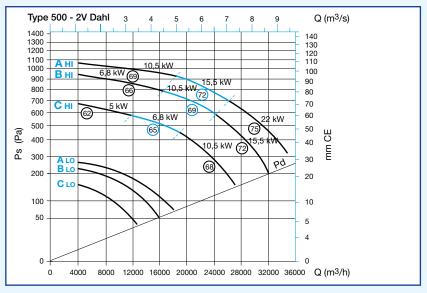
| Casing configuration option | IS |
|---|----------|
| Horizontal discharge | OPT39300 |
| Vertical discharge | OPT39301 |
| Motor on opposite side | OPT39302 |
| Rain-guard 500 | OPT39330 |
| Screw-fit casing | OPTVISSE |
| Electrical accessory options (the All-in includes the relay box, proximity switch switch) | |
| All-in-One 1-speed < 8 kW | OPT39303 |
| All-in-One 1-speed < 13 kW | OPT39304 |
| All-in-One 1-speed < 23 kW | OPT39305 |
| All-in-One 2-speed Dahl < 8 kW | OPT39307 |
| All-in-One 2-speed Dahl < 13 kW | OPT39308 |
| All-in-One 2-speed Dahl < 23 kW | OPT39309 |
| All-in-One 2-speed BI < 8 kW | OPT39311 |
| All-in-One 2-speed BI < 13 kW | OPT39312 |
| All-in-One 2-speed BI < 23 kW | OPT39313 |
| 1-speed proximity switch max. 6.5 kW | OPT39315 |
| 1-speed proximity switch max. 15 KW | OPT39316 |
| 1-speed proximity switch max. 30 KW | OPT39317 |
| 2-speed proximity switch max. 6.5 kW | OPT39318 |
| 2-speed proximity switch max. 13 KW | OPT39319 |
| 2-speed proximity switch max. 22 KW | OPT39320 |
| 100-1000 Pa pressure switch | OPT39321 |
| 2nd 100-1000 Pa pressure switch | OPT39322 |

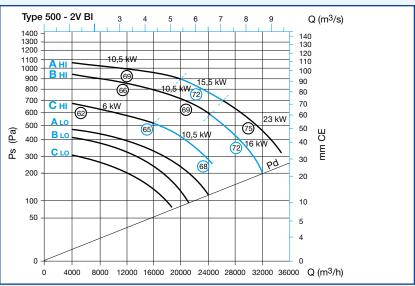
CONNECTION ACCESSORIES

| Description | Code |
|--|----------|
| Flexible sleeve D 800 | 11096931 |
| Flexible sleeve (Exhaust) D 500 | 11039338 |
| Flexible adapter (Exhaust) Type 500 | 11039346 |
| Anti-vibration mounting 6 parts | 11039348 |



| Q (m ³ /h) | 4000 | 8000 | 12000 | 16000 | 20000 | 24000 | 28000 | 32000 |
|-----------------------|------|------|-------|-------|-------|-------|-------|-------|
| C (Pa) | 11 | 45 | 102 | 182 | 284 | 409 | 557 | 728 |







Presentation of the new EXONE F400° - 120 min range





New EXONE F400 with motor cover

Compliance

PRE-SELECTION OF EXONE MODELS

EXONE F400 18.5

EXONE F400 13

EXONE F400 11.8

EXONE F400 8.2

EXONE F400 5.4

EXONE F400 3.9

EXONE F400 2.4

EXONE F400 1.6

Air flow corresponds to a pressure drop of 200 Pa.

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- · Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- · Access hatch fitted as standard.
- · Optional double-skin.

18,500 m³/h

13,000 m³/h

11.800 m³/h

8,200 m³/h

Q (m³/h)

5,400 m³/h

3,900 m³/h

2,400 m³/h

1,600 m³/h

FIELD OF APPLICATION

- Smoke extraction from commercial premises (public buildings, high-rises, commercial & industrial premises, etc.) and multi-family housing (principally 3rd & 4th Family B dwellings).
- Ventilation in commercial premises where a fire classification is required (professional kitchens, sports halls, workshops, etc.).

FIRE PROTECTION RATING

- The EXONE F400 was granted F400°-120 min. classification, the vertical assembly and backdraft damper have been validated by fire resistance tests.
- CE as per EN 12101-3.

DESCRIPTION

INSTALLATION

• Indoors or Outdoors.

and exhaust side,

(accessory),

- 8 sizes, for air flows of between 100 and 18,500 m³/h for pressures of 50 to 1100 Pa.
- · Casing in galvanised steel single-skinned panels with access panel on one side. Double-skinned isolation available as an option.
- Base & motor mounting in galvanised steel.
- BackWard curve double impellor in galvanised steel.
- Class F, IP55 electric motor.
- As standard, the casing is supplied with:
- Smooth connector sleeve on exhaust

possible installation configurations:

- Horizontal or vertical motor shaft.

- Inlet and exhaust at 90° Inlet plenum connector as an accessory.
- without motor cover. Accessories: single-skinned in stainless steel.

• The wide range of accessories meets the majority of

- Connection to rectangular or circular ducts on inlet

- Direct connection to sealed base or masonry stack

INSTALLATION ACCESSORIES

- Motor cover.
- Inlet connection plenum.
- Backdraft damper.
- Anti-vibration pads and feet.
- Sealed base frame.
- · Exhaust cover.
- · Masonry stack in galvanised steel.
- Rectangular => Circular exhaust adapter.
- Shell plate.
- Terrace mounting for AXONE.

AVAILABLE OPTIONS

- Adjustable pressure switch mounted inside to protect it from shocks and weather. **EXCLUSIVE**: the pressure switch is aeraulically connected (Note: for two-speed smoke extraction operations, two pressure switches should be used).
- Hardwired proximity switch, mounted and protected.
- · Double-skinned isolation.

ELECTRICAL ACCESSORIES

• Frequency controller.





Presentation of the advantages of the EXONE F400



EXONE F400 - Horizontal



EXONE F400 - Vertical with inlet plenum & exhaust cover



EXONE F400 - Vertical with inlet plenum, exhaust cover and motor cover

MULTI-POSITION CASING

 The new EXONE casing has been validated with its motor shaft in both a vertical and horizontal position.
 Fitted with an inlet plenum, it can also meet all airflow configuration requirements for a site.

DOUBLE-WALLED ISOLATION

 If the standard casing is proposed in a singleskinned, galvanised steel version, the doubleskinned isolated version is available for all models. Glass fibre wool, 25 mm thick, is inserted between the two stainless steel walls, including the access hatch. This option is recommended for cases where the smoke extraction casing is installed within a zone where minimum operating noise levels are

ACCESS HATCH AS STANDARD

 All EXONE F400 casings are fitted with an access hatch as standard, to simplify cleaning operations on the turbine wheel.

AERAULIC CONNECTIONS TO PRESSURE SWITCH

- Inventor of the 'All-in-One' system (relay box hardwired in the factory), we can exclusively offer this new range with aeraulic connections for pressure switches.
- This option minimises the labour on-site: no more drilling ducts on-site!

WIDE RANGE OF INSTALLATION ACCESSORIES

The range of EXONE casings is supported by various accessories in order to render the system compatible with all site configurations:

- Rectangular or circular exhaust and inlet network,
- Multi-position inlet and exhaust flows.

| Exone F400 | Air flow red | quirements | Resp | onse |
|-----------------|------------------------|------------|------------|--------------|
| Multi-positions | Suction | Discharge | EXONE F400 | Accessories |
| • | Vertical from below | Horizontal | Vertical | None |
| • | Horizontal | Horizontal | Vertical | Inlet plenum |
| • | Horizontal | Vertical | Horizontal | None |
| | Vertical from below | Vertical | Horizontal | Inlet plenum |

Smoke exhaust fan unit in casing and ventilation



EXONE F400 accessories





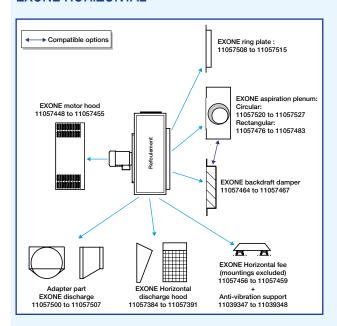


EXONE F400 vertical with IP,

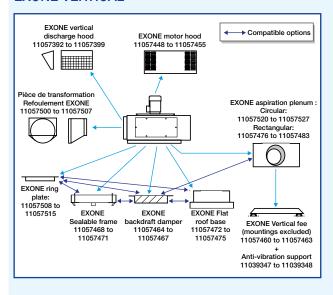


EXONE F400 vertical with air supply plenum and exhaust cover

SELECTION DIAGRAMS FOR ACCESSORIES EXONE HORIZONTAL



EXONE VERTICAL







New EXONE F400 -1.6 - 3-P/Single phase





EXONE F400 - Horizontal

Compliance

- Compliant with C ∈ marking as per EN 12101-3:
- 2h classification: F400 (120).
- · Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- · Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

• Airflow between 100 and 1600 m³/h (at 200 Pa).

RANGE with choice of options

| Description | Code |
|-----------------------------|----------|
| EXONE F400 1-speed | |
| EXONE 1.6-4M-0.22 kW | 11057400 |
| EXONE 1.6-4T-0.25 kW | 11057401 |
| EXONE 1.6-6T-0.25 kW | 11057402 |
| EXONE F400 2-speed | |
| EXONE 1.6-4/8T-0.37/0.08 kW | 11057404 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 1.6 | OPT57486 |

ACCESSORIES

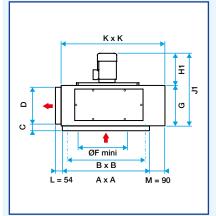
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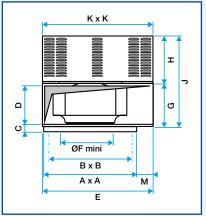
| Description | Code |
|---|----------|
| Motor cover - EXONE 1.6 | 11057448 |
| Exhaust cover - EXONE 1.6 Horizontal | 11057384 |
| Exhaust cover - EXONE 1.6 Vertical | 11057392 |
| Feet - EXONE 1.6 Horizontal | 11057456 |
| Feet - EXONE 1.6 Vertical | 11057460 |
| Backdraft damper EXONE 1.6 | 11057464 |
| Sealed frame EXONE 1.6 | 11057468 |
| Floor vent stack EXONE 1.6 | 11057472 |
| Inlet plenum EXONE 1.6-H250 | 11057476 |
| Exhaust adapter EXONE 1.6 - D315 | 11057500 |
| Shell plate EXONE 1.6 - D315 | 11057508 |
| Anti-vibration mounting - 4 parts | 11039347 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





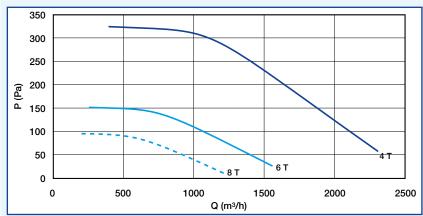
Without cover

With cover

| Ту | ре | | | | Н | orizo | ntal a | air ou | tlet | | | | W | ith n | notor er |
|-----|-----|-----|-----|----|-----|-------|--------|--------|------|-----|-----|--------|-----|-------|-------------|
| Exc | one | Α | В | C | D | Е | F | G | H1 | J1 | K | Weight | Н | J | Weight |
| 1 | .6 | 445 | 395 | 25 | 200 | 542 | 315 | 204 | 235 | 439 | 545 | 27 | 291 | 495 | 35 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm)
- Pressures shown on the curves are 'static'.



| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|------------------------|-----------------|-------|-----------|----------------------|
| 1.6 4M | 4 | 230 | 0.22 | 2.2 |
| 1.6 4T | 4 | 400 | 0.25 | 0.84 |
| 1.6 6T | 6 | 400 | 0.25 | 0.87 |
| 1.6 - 2-speed 4/8-DAHL | 4/8 | 400 | 0.37/0.08 | 1.8/0.5 |

• Rated current 'In' is given for a voltage of 400V for three-phase models.





New EXONE F400 -2.4 - 3-P/Single phase



New EXONE F400 with motor cover



EXONE F400 vertical with IP & inlet plenum

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

Airflow between 100 and 2400 m³/h (at 200 Pa).

RANGE with choice of options

| Description | Code |
|-----------------------------|----------|
| EXONE F400 1-speed | |
| EXONE 2.4-4M-0.37 kW | 11057405 |
| EXONE 2.4-4T-0.37 kW | 11057406 |
| EXONE 2.4-6T-0.25 kW | 11057407 |
| EXONE F400 2-speed | |
| EXONE 2.4-4/8T-0.37/0.08 kW | 11057409 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitte pre-cabled | ed, OPT57496 |
| 2-speed switch - 4 kW + contact fitted, pre-cabled | ots, OPT57497 |
| Double-skinned isolation EXON | E 2.4 OPT57487 |

ACCESSORIES

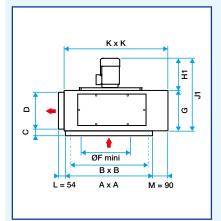
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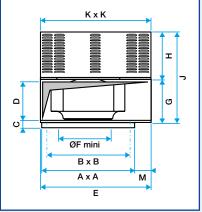
| Motor cover - EXONE 2.4 1105744 Exhaust cover - EXONE 2.4 1105738 Horizontal 1105739 Exhaust cover - EXONE 1.6 Vertical 1105739 Feet - EXONE 2.4/3.9/5.4 Horizontal 1105745 |
|---|
| Horizontal 1105738 Exhaust cover - EXONE 1.6 Vertical 1105739 |
| |
| Feet - FXONE 2.4/3.9/5.4 Horizontal 1105745 |
| 1 CCT EXCINE 2.4/0.3/3.4 Horizontal 1103/43 |
| Feet - EXONE 2.4/3.9/5.4 Vertical 1105746 |
| Backdraft damper EXONE 2.4/3.9/5.4 1105746 |
| Sealed frame 2.4/3.9/5.4 1105746 |
| Floor vent stack 2.4/3.9/5.4 1105747 |
| Inlet plenum EXONE 2.4-H300 1105747 |
| Exhaust adapter EXONE 2.4 - D355 |
| Shell plate EXONE 2.4 - D355 1105750 |
| Anti-vibration mounting - 4 parts 1103934 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





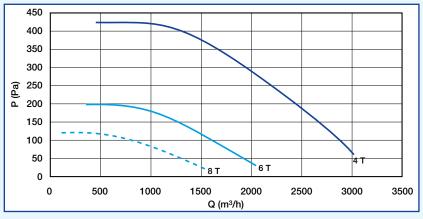
Without cover

With cover

| Туре | Horizontal air outlet | | | | | | | | | | | | th mo | |
|-------|-----------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-------|--------|
| Exone | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | Н | J | Weight |
| 2.4 | 565 | 515 | 30 | 247 | 662 | 400 | 250 | 247 | 497 | 665 | 33 | 351 | 601 | 47 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.

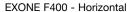


| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|------------------------|-----------------|-------|-----------|----------------------|
| 2.4 4M | 4 | 230 | 0.37 | 3.1 |
| 2.4 4T | 4 | 400 | 0.37 | 1.1 |
| 2.4 6T | 6 | 400 | 0.25 | 1.23 |
| 2.4 - 2-speed 4/8-DAHL | 4/8 | 400 | 0.37/0.08 | 1.8/0.5 |



New EXONE F400 -3.9 - 3-P/Single phase







EXONE F400 - Vertical with inlet plenum (IP) & exhaust cover

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- · Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

Airflow between 100 and 3900 m³/h (at 200 Pa).

RANGE with choice of options

| · | |
|-----------------------------|----------|
| Description | Code |
| EXONE F400 1-speed | |
| EXONE 3.9-4M-0.75 kW | 11057410 |
| EXONE 3.9-6M-0.25 kW | 11057411 |
| EXONE 3.9-4T-0.75 kW | 11057412 |
| EXONE 3.9-6T-0.37 kW | 11057413 |
| EXONE F400 2-speed | |
| EXONE 3.9-4/8T-0.8/0.2 kW | 11057415 |
| EXONE 3.9-6/8T-0.25/0.12 kW | 11057416 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 3.9 | OPT57488 |

ACCESSORIES

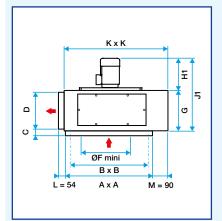
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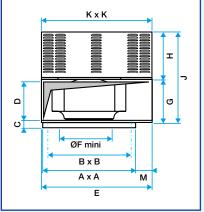
| Description | Code |
|---|----------|
| Motor cover - EXONE 3.9 | 11057450 |
| Exhaust cover - EXONE 3.9 Horizontal | 11057386 |
| Exhaust cover - EXONE 3.9 Vertical | 11057394 |
| Feet - EXONE 2.4/3.9/5.4 Horizontal | 11057457 |
| Feet - EXONE 2.4/3.9/5.4 Vertical | 11057461 |
| Backdraft damper EXONE 2.4/3.9/5.4 | 11057465 |
| Sealed frame 2.4/3.9/5.4 | 11057469 |
| Floor vent stack 2.4/3.9/5.4 | 11057473 |
| Inlet plenum EXONE 3.9-H450 | 11057478 |
| Exhaust adapter EXONE 3.9 - D400 | 11057502 |
| Shell plate EXONE 3.9 - D400 | 11057510 |
| Anti-vibration mounting - 4 parts | 11039347 |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





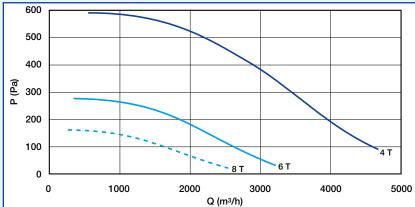
Without cover

With cover

| Туре | | Horizontal air outlet | | | | | | | | | | | | otor er |
|-------|-----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|------------|
| Exone | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | Н | J | Weight |
| 3.9 | 565 | 515 | 30 | 260 | 662 | 400 | 263 | 272 | 535 | 665 | 41 | 351 | 554 | 55 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.



| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|------------------------|-----------------|-------|-----------|----------------------|
| 3.9 4M | 4 | 230 | 0.75 | 5.4 |
| 3.9 6M | 6 | 230 | 0.25 | 2.3 |
| 3.9 4T | 4 | 400 | 0.75 | 1.95 |
| 3.9 6T | 6 | 400 | 0.25 | 1.23 |
| 3.9 -2-speed 6/8-BI | 6/8 | 400 | 0.29/0.12 | 1/0.94 |
| 3.9 - 2-speed 4/8-DAHL | 4/8 | 400 | 0.8/0.2 | 2/0.9 |

• Rated current 'In' is given for a voltage of 400V for three-phase models.





New EXONE F400 -5.4 - 3-P/Single phase







EXONE F400 with IP, motor and exhaust covers

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

• Airflow between 100 and 5400 m³/h (at 200 Pa).

RANGE with choice of options

| Code |
|----------|
| |
| 11057417 |
| 11057418 |
| 11057419 |
| 11057420 |
| |
| 11057421 |
| 11057422 |
| 11057423 |
| 11057424 |
| |

AVAILABLE OPTIONS

- · Aeraulically connected pressure switch, mounted and protected (if motor cover is selected)
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 5.4 | OPT57489 |

ACCESSORIES

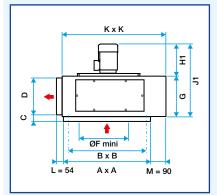
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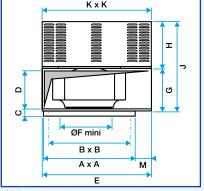
| Booonphon on tollowing pages | |
|---|----------|
| Description | Code |
| Motor cover - EXONE 5.4 | 11057451 |
| Exhaust cover - EXONE 5.4 Horizontal | 11057387 |
| Exhaust cover - EXONE 5.4 Vertical | 11057395 |
| Feet - EXONE 2.4/3.9/5.4 Horizontal | 11057457 |
| Feet - EXONE 2.4/3.9/5.4 Vertical | 11057461 |
| Backdraft damper EXONE 2.4/3.9/5.4 | 11057465 |
| Sealed frame 2.4/3.9/5.4 | 11057469 |
| Floor vent stack 2.4/3.9/5.4 | 11057473 |
| Inlet plenum EXONE 5.4-H600 | 11057479 |
| Exhaust adapter EXONE 5.4 - D450 | 11057503 |
| Shell plate EXONE 5.4 - D450 | 11057511 |
| Anti-vibration mounting - 4 parts | 11039347 |
| | |

ELECTRICAL ACCESSORIES

- Single phase voltage controller. • 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





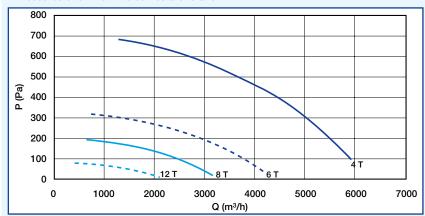
Without cover

With cover

| Тур | Э | | Horizontal air outlet | | | | | | | | | | | th mo | |
|------|---|-----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|--------|-----|-------|--------|
| Exon | е | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | н | J | Weight |
| 5.4 | | 565 | 515 | 30 | 298 | 662 | 400 | 302 | 312 | 614 | 665 | 49 | 351 | 653 | 63 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.



| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|-------------------------|-----------------|-------|-----------|----------------------|
| 5.4 4M | 4 | 230 | 1.1 | 7 |
| 5.4 6M | 6 | 230 | 0.37 | 3 |
| 5.4 4T | 4 | 400 | 1.1 | 2.64 |
| 5.4 6T | 6 | 400 | 0.37 | 1.23 |
| 5.4 -2-speed 4/6-BI | 4/6 | 400 | 1.1/0.3 | 3/1.5 |
| 5.4 - 2-speed 4/8-DAHL | 4/8 | 400 | 1.2/0.3 | 2.9/1.3 |
| 5.4 -2-speed 6/8-BI | 6/8 | 400 | 0.37/0.2 | 1.5/1.1 |
| 5.4 - 2-speed 6/12-DAHL | 6/12 | 400 | 0.37/0.07 | 1.59/0.7 |



ϵ

New EXONE F400 -8.2 - 3-P/Single phase







EXONE F400 vertical with IP & inlet plenum

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- · Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- · Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

• Airflow between 100 and 8200 m³/h (at 200 Pa).

RANGE with choice of options

| • | |
|------------------------------|----------|
| Description | Code |
| EXONE F400 1-speed | i |
| EXONE 8.2-6M-0.75 kW | 11057425 |
| EXONE 8.2-4T-2.2 kW | 11057426 |
| EXONE 8.2-6T-0.75 kW | 11057427 |
| EXONE 8.2-8T-0.37 kW | 11057428 |
| EXONE F400 2-speed | ı |
| EXONE 8.2-4/6T-2.2/0.7 kW | 11057429 |
| EXONE 8.2-4/8T-2.2/0.55 kW | 11057430 |
| EXONE 8.2-6/8T-0.75/0.37 kW | 11057431 |
| EXONE 8.2-6/12T-0.75/0.15 kW | 11057432 |
| | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 8.2 | OPT57490 |

ACCESSORIES

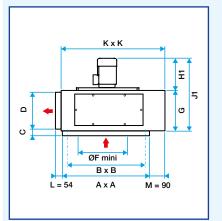
Description on following pages

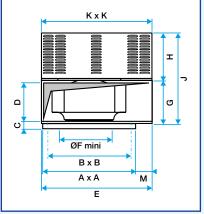
| Description | Code |
|---|----------|
| Motor cover - EXONE 8.2 | 11057452 |
| Exhaust cover - EXONE 8.2 Horizontal | 11057388 |
| Exhaust cover - EXONE 8.2 Vertical | 11057396 |
| Feet - EXONE 8.2/13 Horizontal | 11057458 |
| Feet - EXONE 8.2/13 Vertical | 11057462 |
| Backdraft damper EXONE 8.2/13 | 11057466 |
| Sealed frame 8.2/13 | 11057470 |
| EXONE Floor vent stack 8.2/13 | 11057474 |
| Inlet plenum EXONE 8.2-H640 | 11057480 |
| Exhaust adapter EXONE 8.2 - D560 | 11057504 |
| Shell plate EXONE 8.2 - D560 | 11057512 |
| Anti-vibration mounting - 4 parts | 11039347 |
| | |

ELECTRICAL ACCESSORIES

- Single phase voltage controller.
- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





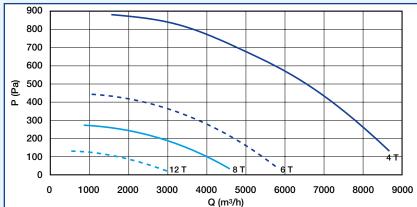
Without cover

With cover

| Туре | | Horizontal air outlet | | | | | | | | | With motor cover | | | |
|-------|-----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|--------|
| Exone | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | Н | J | Weight |
| 8.2 | 800 | 740 | 35 | 358 | 947 | 500 | 361 | 338 | 699 | 950 | 114 | 391 | 752 | 137 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- · Pressures shown on the curves are 'static'.



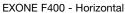
| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|-------------------------|-----------------|-------|-----------|----------------------|
| 8.2 6M | 6 | 230 | 0.75 | 6.5 |
| 8.2 4T | 4 | 400 | 2.2 | 5.6 |
| 8.2 6T | 6 | 400 | 0.75 | 2.2 |
| 8.2 8T | 8 | 400 | 0.37 | 1.35 |
| 8.2 - 2-speed 4/6-BI | 4/6 | 400 | 2.2/0.7 | 5.2/2.5 |
| 8.2 - 2-speed 4/8-DAHL | 4/8 | 400 | 2.2/0.55 | 5/2 |
| 8.2 - 2-speed 6/8-BI | 6/8 | 400 | 0.75/0.37 | 2.7/1.7 |
| 8.2 - 2-speed 6/12-DAHL | 6/12 | 400 | 0.75/0.15 | 2.4/1 |





New EXONE F400 - 13 - 3-Phase







EXONE F400 with IP, motor and exhaust covers

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

• Airflow between 100 and 13000 m³/h (at 200 Pa).

RANGE with choice of options

| Description | Code | | | | | | |
|----------------------------|----------|--|--|--|--|--|--|
| EXONE F400 1-speed | | | | | | | |
| EXONE 13-4T-3 kW | 11057433 | | | | | | |
| EXONE 13-6T-1.5 kW | 11057434 | | | | | | |
| EXONE 13-8T-0.75 kW | 11057435 | | | | | | |
| EXONE F400 2-speed | | | | | | | |
| EXONE 13-4/6T-3/1 kW | 11057436 | | | | | | |
| EXONE 13-4/8T-3.8/1 kW | 11057437 | | | | | | |
| EXONE 13-6/8T-1.5/0.75 kW | 11057438 | | | | | | |
| EXONE 13-6/12T-1.5/0.25 kW | 11057439 | | | | | | |
| | | | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 16.7 | OPT57491 |

ACCESSORIES

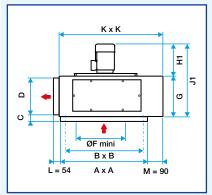
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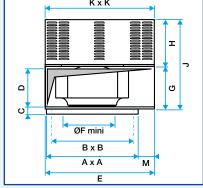
| Description | Code |
|--|----------|
| Motor cover - EXONE 13 | 11057453 |
| Exhaust cover - EXONE 13 Horizontal | 11057389 |
| Exhaust cover - EXONE 13 Vertical | 11057397 |
| Feet - EXONE 8.2/13 Horizontal | 11057458 |
| Feet - EXONE 8.2/13 Vertical | 11057462 |
| Backdraft damper EXONE 8.2/13 | 11057466 |
| Sealed frame 8.2/13 | 11057470 |
| Floor stack 8.2/13 | 11057474 |
| Inlet plenum EXONE 13-H710 | 11057481 |
| Exhaust adapter EXONE 13 - D630 | 11057505 |
| Shell plate EXONE 13 - D630 | 11057513 |
| Anti-vibration mounting - 4 parts | 11039347 |
| | |

ELECTRICAL ACCESSORIES

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





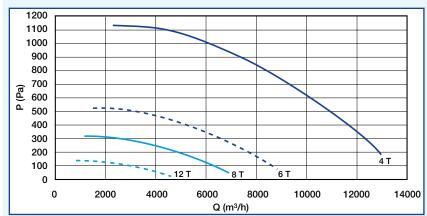
Without cover

With cover

| Туре | Horizontal air outlet | | | | | | | | | | th mo | | | |
|-------|-----------------------|------------------------------|----|-----|-----|-----|-----|-----|-----|-----|-------|--------|-----|-----|
| Exone | Α | A B C D E F G H1 J1 K Weight | | | | | | | | Н | J | Weight | | |
| 13 | 800 | 740 | 35 | 384 | 947 | 500 | 385 | 338 | 723 | 950 | 131 | 391 | 776 | 154 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.



| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|------------------------|-----------------|-------|----------|----------------------|
| 13 4T | 4 | 400 | 3 | 7.5 |
| 13 6T | 6 | 400 | 1.5 | 3.8 |
| 13 6T | 8 | 400 | 0.75 | 2.4 |
| 13 - 2-speed 4/6-BI | 4/6 | 400 | 3/1 | 7.52/3.85 |
| 13 - 2-speed 4/8-DAHL | 4/8 | 400 | 3.8/1 | 8.63/3.69 |
| 13 - 2-speed 6/8-BI | 6/8 | 400 | 1.5/0.75 | 4/3 |
| 13 - 2-speed 6/12-DAHL | 6/12 | 400 | 1.5/0.25 | 4.3/1.7 |





New EXONE F400 -11.8 - 3-Phase





New EXONE F400 Vertical EXONE F400 with IP, motor and exhaust covers

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- · Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

• Airflow between 100 and 11800 m³/h (at 200 Pa).

RANGE with choice of options

| Description | Code |
|------------------------------|----------|
| EXONE F400 1-speed | |
| EXONE 11.8-6T-2.2 kW | 11057440 |
| EXONE 11.8-8T-1.1 kW | 11057441 |
| EXONE F400 2-speed | |
| EXONE 11.8-6/8T-2.2/1.3 kW | 11057442 |
| EXONE 11.8-6/12T-2.2/0.55 kW | 11057443 |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 11.8 | OPT57492 |

ACCESSORIES

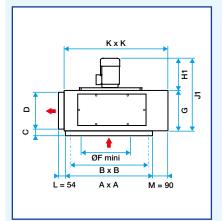
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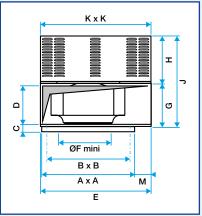
| Description | Code |
|--|----------|
| Motor cover - EXONE 11.8 | 11057454 |
| Exhaust cover - EXONE 11.8 Horizontal | 11057390 |
| Exhaust cover - EXONE 11.8 Vertical | 11057398 |
| Feet - EXONE 11.8/18.5 Horizontal | 11057459 |
| Feet - EXONE 11.8/18.5 Vertical | 11057463 |
| Backdraft damper EXONE 11.8/18.5 | 11057467 |
| Sealed frame 11.8/18.5 | 11057471 |
| EXONE Floor vent stack 11.8/18.5 | 11057475 |
| Inlet plenum EXONE 11.8-H710 | 11057482 |
| Exhaust adapter EXONE 11.8 - D710 | 11057506 |
| Shell plate EXONE 11.8 - D710 | 11057514 |
| Anti-vibration mounting - 6 parts | 11039348 |

ELECTRICAL ACCESSORIES

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





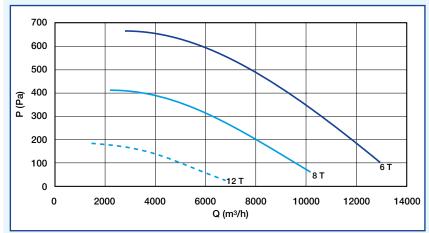
Without cover

With cover

| Туре | | Horizontal air outlet | | | | | | | | | Wi | th mo | | |
|-------|-----|-----------------------|----|-----|------|-----|-----|-----|-----|------|--------|-------|-----|--------|
| Exone | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | н | J | Weight |
| 11.8 | 910 | 850 | 40 | 451 | 1056 | 630 | 454 | 336 | 790 | 1060 | 153 | 481 | 935 | 194 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.



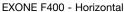
| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|--------------------------|-----------------|-------|----------|----------------------|
| 11.8 6T | 6 | 400 | 2.2 | 5.7 |
| 11.8 8T | 8 | 400 | 1.1 | 3.2 |
| 11.8 - 2-speed 6/8-BI | 6/8 | 400 | 2.2/1.3 | 6.5/5 |
| 11.8 - 2-speed 6/12-DAHL | 6/12 | 400 | 2.2/0.55 | 6.4/2.6 |





New EXONE F400 -18.5 - 3-Phase







EXONE F400 - Vertical with inlet plenum (IP) & motor & exhaust covers

Compliance

- Compliant with C €CE marking as per EN 12101-3:
- 2h classification: F400 (120).
- Vertical positioning compliant.

Advantages

- It is possible to set the EXONE F400 in a vertical position.
- Inlet plenum available as an accessory.
- Pressure switch aeraulic connection established in the factory.
- Access hatch fitted as standard.
- · Optional double-skin.

DESCRIPTION

Airflow between 100 and 18500 m³/h (at 200 Pa).

RANGE with choice of options

| Description | Code | | | | | | |
|--------------------------|----------|--|--|--|--|--|--|
| EXONE F400 1-speed | | | | | | | |
| EXONE 18.5-6T-4 kW | 11057444 | | | | | | |
| EXONE 18.5-8T-2.2 kW | 11057445 | | | | | | |
| EXONE F400 2-speed | | | | | | | |
| EXONE 18.5-6/8T-4/1.1 kW | 11057446 | | | | | | |
| EXONE 18.5-6/12T-4/1 kW | 11057447 | | | | | | |

AVAILABLE OPTIONS

- Aeraulically connected pressure switch, mounted and protected (if motor cover is selected).
- Hardwired proximity switch, mounted and protected.
- Double-skinned isolation.

| Description | Code |
|--|----------|
| Pressure switch 20-200 Pa aeraulically connected | OPT57494 |
| Pressure switch 200-1000 Pa aeraulically connected | OPT57495 |
| 1-speed switch + contacts, fitted, pre-cabled | OPT57496 |
| 2-speed switch - 4 kW + contacts, fitted, pre-cabled | OPT57497 |
| Double-skinned isolation EXONE 18.5 | OPT57493 |

ACCESSORIES

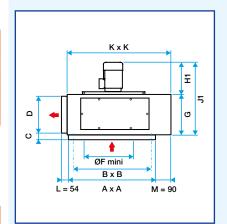
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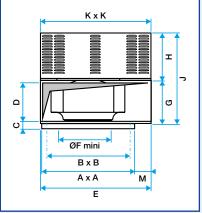
| Description | Code |
|--|----------|
| Motor cover - EXONE 18.5 | 11057455 |
| Exhaust cover - EXONE 18.5 Horizontal | 11057391 |
| Exhaust cover - EXONE 18.5 Vertical | 11057399 |
| Feet - EXONE 11.8/18.5 Horizontal | 11057459 |
| Feet - EXONE 11.8/18.5 Vertical | 11057463 |
| Backdraft damper EXONE 11.8/18.5 | 11057467 |
| Sealed frame 11.8/18.5 | 11057471 |
| EXONE Floor vent stack 11.8/18.5 | 11057475 |
| Inlet plenum EXONE 18.5-H900 | 11057483 |
| Exhaust adapter EXONE 18.5 - D800 | 11057507 |
| Shell plate EXONE 18.5 - D800 | 11057515 |
| Anti-vibration mounting - 6 parts | 11039348 |

ELECTRICAL ACCESSORIES

- 3-phased auto transformer.
- Frequency controller.
- 2-speed comfort control box.

DIMENSIONS (mm) - WEIGHT (kg)





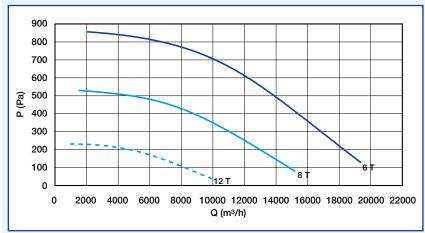
Without cover

With cover

| Туре | | Horizontal air outlet | | | | | | | | Wi | th mo | | | |
|-------|-----|-----------------------|----|-----|------|-----|-----|-----|-----|------|--------|-----|-----|--------|
| Exone | Α | В | С | D | Е | F | G | H1 | J1 | K | Weight | Н | J | Weight |
| 18.5 | 910 | 850 | 40 | 488 | 1056 | 630 | 491 | 431 | 922 | 1060 | 195 | 481 | 972 | 236 |

AIRFLOW DETAILS

- Curves as per NF EN ISO 5801, inlet connected (Ø F mm).
- Pressures shown on the curves are 'static'.

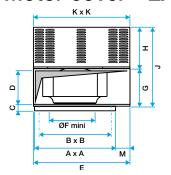


| Туре | Number of poles | U (V) | P (kW) | In rated current (A) |
|--------------------------|-----------------|-------|--------|----------------------|
| 18.5 6T | 6 | 400 | 4 | 9.3 |
| 18.5 8T | 8 | 400 | 2.2 | 5.96 |
| 18.5 - 2-speed 6/8-BI | 6/8 | 400 | 4/1.1 | 11.3/4.9 |
| 18.5 - 2-speed 6/12-DAHL | 6/12 | 400 | 4/1 | 12.6/5.2 |



CE

Motor cover - EXONE F400



FIELD OF APPLICATION

• Recommended if the fan is to be installed outside.

DESCRIPTION

• Single-skinned cover in galvanised steel attached to the casing (fixings supplied).

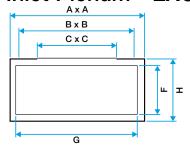
RANGE

| Description | Code |
|--------------------------|----------|
| Motor cover - EXONE 1.6 | 11057448 |
| Motor cover - EXONE 2.4 | 11057449 |
| Motor cover - EXONE 3.9 | 11057450 |
| Motor cover - EXONE 5.4 | 11057451 |
| Motor cover - EXONE 8.2 | 11057452 |
| Motor cover - EXONE 13 | 11057453 |
| Motor cover - EXONE 11.8 | 11057454 |
| Motor cover - EXONE 18.5 | 11057455 |

DIMENSIONS (mm)

| Model | K | H |
|------------|------|-----|
| EXONE 1.6 | 545 | 291 |
| EXONE 2.4 | 665 | 351 |
| EXONE 3.9 | 665 | 351 |
| EXONE 5.4 | 665 | 351 |
| EXONE 8.2 | 950 | 391 |
| EXONE 13 | 950 | 391 |
| EXONE 11.8 | 1060 | 481 |
| EXONE 18.5 | 1060 | 481 |

Inlet Plenum - EXONE F400



FIELD OF APPLICATION

 Recommended where the inlet ducting is perpendicular to the motor shaft.

DESCRIPTION

 Inlet connector casing in galvanised steel with connecting sleeve.

RANGE

| Velone model | Code |
|------------------------------|----------|
| Inlet plenum EXONE 1.6-H250 | 11057476 |
| Inlet plenum EXONE 2.4-H300 | 11057477 |
| Inlet plenum EXONE 3.9-H450 | 11057478 |
| Inlet plenum EXONE 5.4-H500 | 11057479 |
| Inlet plenum EXONE 8.2-H640 | 11057480 |
| Inlet plenum EXONE 13-H710 | 11057481 |
| Inlet plenum EXONE 11.8-H710 | 11057482 |
| Inlet plenum EXONE 18.5-H900 | 11057483 |

(See EXONE accessories on page 48

DIMENSIONS (mm)

| Model | Α | В | С | G | F | Н |
|------------|-----|-----|-----|-----|-----|-----|
| EXONE 1.6 | 440 | 395 | 150 | 395 | 200 | 250 |
| EXONE 2.4 | 560 | 515 | 200 | 515 | 250 | 300 |
| EXONE 3.9 | 560 | 515 | 200 | 515 | 400 | 450 |
| EXONE 5.4 | 560 | 515 | 200 | 515 | 550 | 600 |
| EXONE 8.2 | 795 | 740 | 300 | 750 | 590 | 640 |
| EXONE 13 | 795 | 740 | 300 | 750 | 650 | 710 |
| EXONE 11.8 | 905 | 850 | 400 | 860 | 650 | 710 |
| EXONE 18.5 | 905 | 850 | 400 | 860 | 850 | 900 |

SHELL RANGE

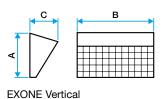
| Description | Code |
|------------------------------|----------|
| Inlet plenum EXONE 1.6-D250 | 11057520 |
| Inlet plenum EXONE 2.4-D315 | 11057521 |
| Inlet plenum EXONE 3.9-D355 | 11057522 |
| Inlet plenum EXONE 5.4-D400 | 11057523 |
| Inlet plenum EXONE 8.2-D500 | 11057524 |
| Inlet plenum EXONE 13-D630 | 11057525 |
| Inlet plenum EXONE 11.8-D630 | 11057526 |
| Inlet plenum EXONE 18.5-D800 | 11057527 |

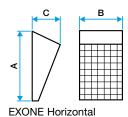


Smoke exhaust + ventilation casings



Exhaust cover - EXONE F400





FIELD OF APPLICATION

• Recommended for use with a free exhaust.

DESCRIPTION

 Exhaust cover in galvanised steel with drawn, nonvolatile grille NFE-51190.

RANGE

| Description | Code |
|-------------------------------------|----------|
| Exhaust cover - EXONE 1.6 Vertical | 11057392 |
| Exhaust cover - EXONE 2.4 Vertical | 11057393 |
| Exhaust cover - EXONE 3.9 Vertical | 11057394 |
| Exhaust cover - EXONE 5.4 Vertical | 11057395 |
| Exhaust cover - EXONE 8.2 Vertical | 11057396 |
| Exhaust cover - EXONE 13 Vertical | 11057397 |
| Exhaust cover - EXONE 11.8 Vertical | 11057398 |
| Exhaust cover - EXONE 18.5 Vertical | 11057399 |

| Description | Code |
|---------------------------------------|----------|
| Exhaust cover - EXONE 1.6 Horizontal | 11057384 |
| Exhaust cover - EXONE 2.4 Horizontal | 11057385 |
| Exhaust cover - EXONE 3.9 Horizontal | 11057386 |
| Exhaust cover - EXONE 5.4 Horizontal | 11057387 |
| Exhaust cover - EXONE 8.2 Horizontal | 11057388 |
| Exhaust cover - EXONE 13 Horizontal | 11057389 |
| Exhaust cover - EXONE 11.8 Horizontal | 11057390 |
| Exhaust cover - EXONE 18.5 Horizontal | 11057391 |

(See EXONE accessories on page 48)

DIMENSIONS (mm) EXHAUST COVER - EXONE VERTICAL

| Model | Α | В | С |
|------------|-----|------|-----|
| EXONE 1.6 | 204 | 545 | 150 |
| EXONE 2.4 | 250 | 665 | 200 |
| EXONE 3.9 | 263 | 665 | 200 |
| EXONE 5.4 | 302 | 665 | 200 |
| EXONE 8.2 | 361 | 950 | 300 |
| EXONE 13 | 385 | 950 | 300 |
| EXONE 11.8 | 454 | 1060 | 400 |
| EXONE 18.5 | 491 | 1060 | 400 |

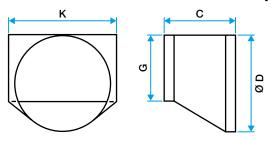
EXHAUST COVER - EXONE HORIZONTAL

| Model | Α | В | С |
|------------|------|-----|-----|
| EXONE 1.6 | 545 | 204 | 150 |
| EXONE 2.4 | 665 | 250 | 200 |
| EXONE 3.9 | 665 | 263 | 200 |
| EXONE 5.4 | 665 | 302 | 200 |
| EXONE 8.2 | 950 | 361 | 300 |
| EXONE 13 | 950 | 385 | 300 |
| EXONE 11.8 | 1060 | 454 | 400 |
| EXONE 18.5 | 1060 | 491 | 400 |





EXONE F400 exhaust adapter



FIELD OF APPLICATION

 Used to connect a circular exhaust duct to the EXONE casing, which has a rectangular exhaust outlet.

DESCRIPTION

• Rectangular > circular adapter components in galvanised steel.

RANGE

| Description | Code |
|-----------------------------------|----------|
| Exhaust adapter EXONE 1.6 - D315 | 11057500 |
| Exhaust adapter EXONE 2.4 - D355 | 11057501 |
| Exhaust adapter EXONE 3.9 - D400 | 11057502 |
| Exhaust adapter EXONE 5.4 - D450 | 11057503 |
| Exhaust adapter EXONE 8.2 - D560 | 11057504 |
| Exhaust adapter EXONE 13 - D630 | 11057505 |
| Exhaust adapter EXONE 11.8 - D710 | 11057506 |
| Exhaust adapter EXONE 18.5 - D800 | 11057507 |

DIMENSIONS (mm)

| Model | K | G | С | D |
|------------|------|-----|-----|-----|
| EXONE 1.6 | 545 | 204 | 350 | 315 |
| EXONE 2.4 | 665 | 250 | 450 | 355 |
| EXONE 3.9 | 665 | 263 | 450 | 400 |
| EXONE 5.4 | 665 | 302 | 450 | 450 |
| EXONE 8.2 | 950 | 361 | 500 | 560 |
| EXONE 13 | 950 | 385 | 500 | 630 |
| EXONE 11.8 | 1060 | 454 | 600 | 710 |
| EXONE 18.5 | 1060 | 491 | 600 | 900 |

Flexible sleeve and shell plate - EXONE F400



FIELD OF APPLICATION

- Plate: used to pass a circular duct through a flat surface.
- Sleeve: used to connect the shell plate to the circular duct network.

DESCRIPTION

- Shell plate in galvanised steel, to be attached to the EXONE base.
- Flexible circular sleeve M0 + 2 fixing collars.

RANGE

| Velone model | Code |
|-------------------------------|----------|
| Shell plate EXONE 1.6 - D315 | 11057508 |
| Shell plate EXONE 2.4 - D355 | 11057509 |
| Shell plate EXONE 3.9 - D400 | 11057510 |
| Shell plate EXONE 5.4 - D450 | 11057511 |
| Shell plate EXONE 8.2 - D560 | 11057512 |
| Shell plate EXONE 13 - D630 | 11057513 |
| Shell plate EXONE 11.8 - D710 | 11057514 |
| Shell plate EXONE 18.5 - D800 | 11057515 |
| Flexible sleeve M0 Ø315 | 11096936 |
| Flexible sleeve M0 Ø355 | 11096937 |
| Flexible sleeve M0 Ø400 | 11096938 |
| Flexible sleeve M0 Ø450 | 11096939 |
| Flexible sleeve M0 Ø560 | 11096941 |
| Flexible sleeve M0 Ø630 | 11096942 |

DIMENSIONS (mm)

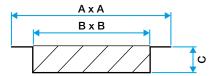
| Plate model | Α | D |
|-------------|-----|-----|
| EXONE 1.6 | 425 | 315 |
| EXONE 2.4 | 545 | 355 |
| EXONE 3.9 | 545 | 400 |
| EXONE 5.4 | 545 | 450 |
| EXONE 8.2 | 780 | 560 |
| EXONE 13 | 780 | 630 |
| EXONE 11.8 | 890 | 710 |
| EXONE 18.5 | 890 | 900 |

(See EXONE accessories on page 48)





Backdraft damper EXONE F400 Vertical



FIELD OF APPLICATION

• Stops natural ventilation when the casing is in standby.

DESCRIPTION

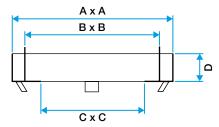
- · Backdraft damper made of galvanised steel
- Compatible with sealed base frame and floor/terrace stack base.

RANGE

| Description | Code |
|------------------------------------|----------|
| Backdraft damper EXONE 1.6 | 11057464 |
| Backdraft damper EXONE 2.4/3.9/5.4 | 11057465 |
| Backdraft damper EXONE 8.2/13 | 11057466 |
| Backdraft damper EXONE 11.8/18.5 | 11057467 |

| DIMENSIONS (mm) | | | | |
|------------------------|----|-----|-----|-----|
| Model | | Α | В | С |
| EXONE 1.6 | | 425 | 300 | |
| EXONE 2.4/3.9/5.4 | ļ. | 545 | 400 | 115 |
| EXONE 8.2/13 | | 780 | 500 | |
| EXONE 11.8/18.5 | | 890 | 650 | |

Sealed frame base - EXONE F400 Vertical



FIELD OF APPLICATION

• Used to fix the EXONE casing, like a roof fan, onto a masonry surface.

DESCRIPTION

• Sealed frame plate in galvanised steel.

RANGE

| Velone model | Code |
|--------------------------|----------|
| Sealed frame EXONE 1.6 | 11057468 |
| Sealed frame 2.4/3.9/5.4 | 11057469 |
| Sealed frame 8.2/13 | 11057470 |
| Sealed frame 11.8/18.5 | 11057471 |

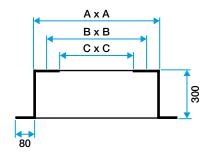
(See EXONE accessories on page 48)

DIMENSIONS (mm)

| · / | | | | |
|-------------------|-----|-----|-----|-----|
| Model | Α | В | С | D |
| EXONE 1.6 | 425 | 395 | 365 | |
| EXONE 2.4/3.9/5.4 | 545 | 515 | 485 | 100 |
| EXONE 8.2/13.5 | 780 | 740 | 700 | 120 |
| EXONE 11.8/18.5 | 890 | 850 | 810 | |



Floor vent stack EXONE F400 Vertical



FIELD OF APPLICATION

 Used to install the casing on a horizontal roof with no stonework stacks.

DESCRIPTION

• Floor stack in galvanised steel.

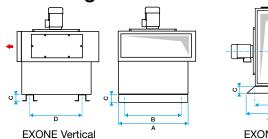
RANGE

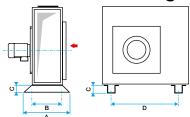
| Description | Code |
|----------------------------------|----------|
| Floor vent stack EXONE 1.6 | 11057472 |
| Floor vent stack 2.4/3.9/5.4 | 11057473 |
| EXONE Floor vent stack 8.2/13 | 11057474 |
| EXONE Floor vent stack 11.8/18.5 | 11057475 |

DIMENSIONS (mm)

| Model | Α | В | С |
|-------------------|-----|-----|-----|
| EXONE 1.6 | 425 | 395 | 365 |
| EXONE 2.4/3.9/5.4 | 545 | 515 | 485 |
| EXONE 8.2/13 | 780 | 740 | 700 |
| EXONE 11.8/18.5 | 890 | 850 | 810 |

Mounting feet + anti-vibration mountings - EXONE F400





EXONE Horizontal

FIELD OF APPLICATION

 Recommended to separate the mounting from the casing supports.

DESCRIPTION

- Mounting feet in galvanised steel factory fitted. Two models for horizontal or vertical casing installation.
- Anti-vibration mounting in resilient material: dimensions: L x w x th = 100 x 100 x 10 (mm).

RANGE

| Velone model | Code | | | | |
|--|----------|--|--|--|--|
| Feet - EXONE 1.6 Horizontal | 11057456 | | | | |
| Feet - EXONE 2.4/3.9/5.4 Horizontal | 11057457 | | | | |
| Feet - EXONE 8.2/13 Horizontal | 11057458 | | | | |
| Feet - EXONE 11.8/18.5 Horizontal | 11057459 | | | | |
| Feet - EXONE 1.6 Vertical | 11057460 | | | | |
| Feet - EXONE 2.4/3.9/5.4 Vertical | 11057461 | | | | |
| Feet - EXONE 8.2/13 Vertical | 11057462 | | | | |
| Feet - EXONE 11.8/18.5 Vertical | 11057463 | | | | |
| Anti-vibration mountings | | | | | |
| Anti-vibration mounting - 4 parts 11039347 | | | | | |
| Anti-vibration mounting - 6 parts | 11039348 | | | | |

(See EXONE accessories on page 48)

DIMENSIONS (mm)

| Vertical model | Α | В | С | D |
|-------------------|------|-----|-----|-----|
| EXONE 1.6 | 545 | 490 | 50 | 280 |
| EXONE 2.4/3.9/5.4 | 865 | 640 | 170 | 400 |
| EXONE 8.2/13 | 900 | 845 | 170 | 635 |
| EXONE 11.8/18.5 | 1010 | 900 | 170 | 745 |
| Horizontal model | Α | В | С | D |
| EXONE 1.6 | 290 | 235 | | 285 |
| EXONE 2.4/3.9/5.4 | 340 | 285 | | 405 |
| EXONE 8.2/13 | 450 | 395 | | 610 |
| EXONE 11.8/18.5 | 500 | 430 | | 720 |

aldes



Presentation of the HELIONE range of axial fans < €



HELIONE short shell

Compliance

- Class: F400° 2h & F200° - 2h.
- Conforms to EN 12101-3.

Advantages

- Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

FIELD OF APPLICATION

- With its fire resistance classifications of F200° / 2h & F400° / 2h, the new HELIONE range meets ventilation or smoke extraction requirements for residential buildings (car parks, stairwells), commercial premises (car parks, warehouses) and industrial premises, wherever high flow rates and low pressure levels are required.
- Helione works both for extraction and for the supply of fresh air into premises where the acoustic requirements are not primordial, or, for occasional smoke extraction.

DESCRIPTION

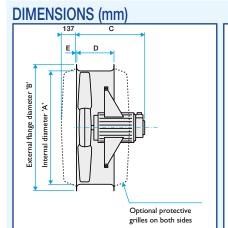
- The standard HELIONE range covers Ø 500 to Ø 1250 mm for standard flow rates of 5 000 - 72,000 m³/h and pressures of 100 to 500 Pa.
- Fans with multiple aluminium blades, mounted on an aluminium hub. The angle is determined by the operating location.
- Each blade is radiographically tested using x-rays prior to assembly to check the quality of the materials used.
- Shells are manufactured from a metallic plate, with integrated flanges and drill-holes for connections bead welded and galvanised after manufacturing for increased service life. Standard = short shell, optional long shell
- Motor mounting arms in galvanised steel for better corrosion resistance.
- Boss-type motor, 4 poles or 4/8 poles, IP55, Isolation Class F as standard. Operating temperature range -20/ 50 °C.
- All motors are designed to support the power absorbed across the full width of the curve.
- Nous consulter pour tout autre besoin : Ø hors standard, hautes pressions, débits supérieurs à 72000 m³/h.

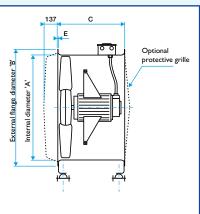
RECOMMENDATION

 When installing with anti-vibration mounts, above Ø 800, and for motors > 4 kW, it is recommended that the long shell option be used. Otherwise, rails should be used between the feet and pads to spread the load.

AVAILABLE OPTIONS

 Long shell: includes an external, pre-cabled terminal box.





| | | | Short ring | | Long ring | |
|------|---------------------------------------|------|------------|-----|-----------|-----|
| A | Motor power (kW) | В | С | D | С | Е |
| 560 | 0,9 ; 1,27 ; 0,92 / 0,23 | 654 | 331 | 225 | 375 | 3 |
| 630 | 0,9 ; 1,27 ; 0,92 / 0,23 | 724 | 331 | 225 | 375 | 3 |
| 030 | 1,8 ; 1,84 / 0,46 | 724 | 345 | 223 | 520 | J |
| | 0,9 ; 1,27 ; 0,92 / 0,23 | | 331 | | 375 | 2,5 |
| 710 | 1,8 ; 1,84 / 0,46 | 804 | 358 | 225 | 520 | 2,5 |
| | 2,64 ; 3,6 ; 2,53 / 0,63 ; 3,22 / 0,8 | | 377 | | 520 | 3 |
| 800 | 1,8 ; 1,84 / 0,46 | 894 | 333 | 225 | 520 | 2,5 |
| 000 | 2,64 ; 3,6 ; 2,53 / 0,63 ; 3,22 / 0,8 | 094 | 377 | 223 | 520 | 3 |
| | 2,64 ; 3,6 ; 2,53 / 0,63 ; 3,22 / 0,8 | | 377 | 225 | 520 | 3 |
| | 4,8 ; 4,37 / 1,15 | | 394 | 225 | 520 | 3 |
| 900 | 6,6 ; 5,75 / 1,5 | 1006 | 438 | 300 | 520 | 4 |
| | 9 ; 11 ; 7,92 / 1,98 | | 475 | 300 | 520 | 4 |
| | 13,2 ; 12,7 / 3,45 | | 569 | 300 | 625 | 4 |
| | 4,8 ; 4,37 / 1,15 | | 394 | 225 | 520 | 3 |
| | 6,6 ; 5,75 / 1,5 | | 450 | 300 | 520 | 5 |
| | 9 ; 11 ; 7,92 / 1,98 | | 475 | 300 | 520 | 5 |
| 1000 | 13,2 ; 12,7 / 3,45 | 1106 | 603 | 300 | 625 | 5 |
| | 18 ; 16,1 / 4,03 | | 647 | 300 | 711 | 5 |
| | 22,2 ; 19,6 / 4,95 | | 697 | 300 | 711 | 6 |
| | 26,4 ; 23 / 5,75 | | 697 | 300 | 711 | 6 |

Your ALDES agency will also be able to provide you with detailed technical sheets for each model.





Presentation of the HELIONE range of axial fans



HELIONE long shell

ACCESSORIES

- Protective grilles on fan and motor ends.
- Flexible sleeve for fitting between counter-flange and circular duct. M0 Fabric.
- · Counter-flange in galvanised steel to connect the HELIONE to a circular duct. Required with flexible sleeve.
- 2 square plate models in galvanised steel for wall-mounted HELIONE units:
- 'Economy' square plate: cannot support the weight of the fan alone, requires suspension strengtheners.
- 'Reinforced' square plate: fan held in place on the wall by the square plate alone.
- Feet (x2) in galvanised steel to attach the HELIONE.
- Anti-vibration mounts (x4) to fix under the feet.
- Backdraft damper: circular: 2 flaps, in galvanised steel. May need adjustment of stops on-site.
- Passive circular silencer.
- Electrical accessories:
 - Proximity switch,
 - Pressure switch.
- AXONE Micro II Relay Box,
 Emergency Stop button,
 Residential parking smoke extraction unit.

Compliance

- Class: F400° 2h & F200° - 2h
- Conforms to EN 12101-3.

Advantages

- · Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

INSTALLATION

Installation A (MH) or B (HM)

Horizontal to the ground and wall mounted.

 Options required: feet and anti-vibration mounts, counter flanges & flexible sleeves or grille if not connected to the network of ducts.

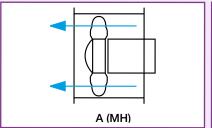
Horizontal to the ground between two ducts

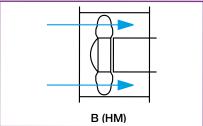
• Options required, feet and anti-vibration mounts, counter flanges and flexible sleeves on both sides, long shell for access to the motor through an inspection hatch.

Horizontal and wall mounted.

• Options required: square plate for wall mount, counter-flange and flexible sleeve or grille (if not connected to ductwork).

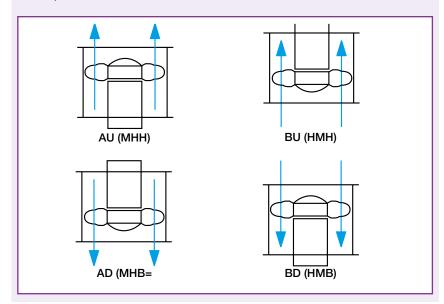
Installation AU (MHH), BU (HMH), AD (MHB), BD (HMB)





Vertical - suspended from ceiling or ducts

- Shell should be bolted in place using all flange holes.
- Options required: square, reinforced plate to support the HELIONE, protective grill if access remains possible or if there is a risk of foreign objects being sucked up, if connected to the ductwork on both sides: long shell for access to the motor through an inspection hatch.



Descriptions of HELIONE fans have the following information:

| Helione | F200- | 560/ | 20/ | 4/ | 6- | 13,2kW |
|---------|------------------------------|------------------------------|----------------------------|-----------------------|----------------------|-------------------------|
| | Fire protection rating | Nominal diameter in mm | Shaft diameter in mm | Number of motor poles | Number of fan blades | Motor power in kW |





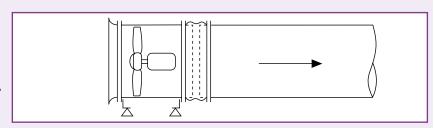
Presentation of the HELIONE range of axial fans



EXAMPLE INSTALLATIONS

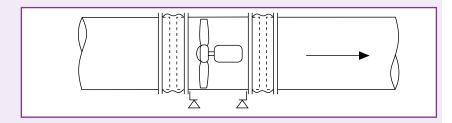
- Duct on one side only Horizontal
 - Grille on motor or fan side,
- Support feet,Anti-vibration mounts,
- 1 counter-flange.

The support feet are compatible with vertical mounting, simply attach the fan using brackets.



• Duct on both sides (long shell)

- Support feet (if floor mounted),
- Anti-vibration mounts,2 flexible sleeves,
- 2 counter-flanges.







Installation guide

| To avoid | Recommended C | Comments |
|----------|---------------|---|
| | 02 | A sharp edge on the inlet side reduces the efficiency of the fan, Conical connections are recommended. |
| | | A sharp edge on the inlet side increases noise levels and reduces efficiency a conical connection is recommended. |
| | | A minimum clearance is recommended, equivalent to the inlet diameter. |
| | | A minimum clearance is recommended, equivalent to the inlet diameter. |
| | | It is recommended that a square adapter is used. |
| | | It is recommended that an adapter with angles > 15° is used. |
| <u>▶</u> | | Flexible sleeves must be sufficiently taut to prevent pressure loss. |



Example of a detailed technical sheet



Fan references: 56JM/20/4/6/22

Fan diameter: 560 mm

Blades: 6

Speed of rotation: 1420 rpm

Speed: 7.7 m/s Blade angle: 22° Air flow direction: A Fan shell: short

Characteristics required: 6800 m³/h @ 200 Pa (static)

Dynamic exhaust pressure 36 Pa Absorbed turbine power 0.629 kW

Max. power 0.646 kW Aeraulic efficiency: 72 % Height of motor shaft: CT9 Motor power: 1.15 kW Nominal current: 3.2 A Current on start-up: 11 A Motor support: boss

Power supply: 380-420 Volts 50 Hz 3 Phase

Starter type: DOL

Motor windings: standard

Air density: 1.2 kg/m³ / 20 °C / 0 m / 50% RH Smoke extraction: Not for smoke extraction

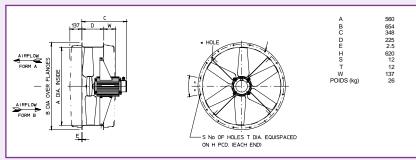
The aeraulic data is produced by our laboratories as per ISO $5801\ \&$ are applicable for ducted installations.

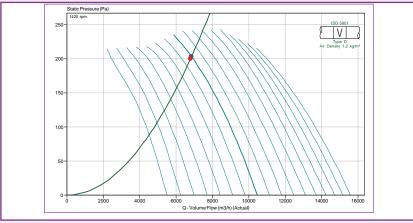
Acoustic data is produced by our laboratories as per BS 848-P2-1985 & are applicable for ducted installations. Only the total inlet acoustic pressure level is given for the distance specified (in free air, spherical).

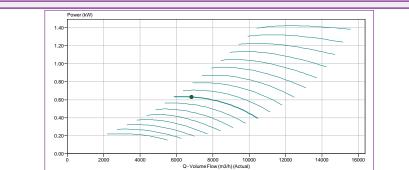
| Acoustic spectrum (Hz) | | | | | | | | Overall | | |
|------------------------|----|-----|-----|-----|----|----|----|---------|-----|-------------|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Lw* | LpA @ 3 m** |
| Inlet* | 78 | 82 | 79 | 78 | 76 | 72 | 69 | 65 | 86 | 60 |
| Outlet* | 80 | 83 | 79 | 78 | 77 | 73 | 70 | 66 | 87 | 60 |

 * Lw dB re 10 $^{-12}$ W













New HELIONE unclassified & F200 - 1 SPEED



Short ring



Long ring

Compliance

- Classification F200° 2h.
- Conforms to EN 12101-3.

Advantages

- Up to 70,000 m³/h.
- Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

FIELD OF APPLICATION

- Ventilation & smoke extraction from covered car parks.
- Quick selection tables covering standard products, for more information, contact us.

RECOMMENDATION

• When installing with anti-vibration mounts, above Ø 800, and for motors > 4 kW, it is recommended that the long shell option be used. Otherwise, rails should be used between the feet and pads to spread the load.

RANGE F200 (120) - 1-SPEED

| Description | Code |
|------------------------------------|----------|
| HÉLIONE F200-560/20/4/6 - 0,66 kW | 11090299 |
| HÉLIONE F200-560/20/4/6 - 1,27 kW | 11090300 |
| HÉLIONE F200-710/20/4/3 - 1,27 kW | 11090302 |
| HÉLIONE F200-710/20/4/3 - 1,8 kW | 11090303 |
| HÉLIONE F200-710/20/4/6 - 1,8 kW | 11090305 |
| HÉLIONE F200-710/20/4/6 - 2,64 kW | 11090294 |
| HÉLIONE F200-710/25/4/9 - 2,64 kW | 11090304 |
| HÉLIONE F200-710/20/4/6 - 3,6 kW | 11090306 |
| HÉLIONE F200-900/25/4/3 - 4,8 kW | 11090307 |
| HÉLIONE F200-900/25/4/6 - 4,8 kW | 11090309 |
| HÉLIONE F200-900/25/4/6 - 6,6 kW | 11090310 |
| HÉLIONE F200-900/25/4/9 - 6,6 kW | 11090311 |
| HÉLIONE F200-1000/25/4/3 - 4,8 kW | 11090312 |
| HÉLIONE F200-1000/25/4/3 - 6,6 kW | 11090313 |
| HÉLIONE F200-1000/25/4/6 - 4,8 kW | 11090314 |
| HÉLIONE F200-1000/25/4/6 - 9 kW | 11090315 |
| HÉLIONE F200-1000/25/4/6 - 13,2 kW | 11090316 |
| HÉLIONE F200-1000/25/4/9 - 9 kW | 11090295 |
| HÉLIONE F200-1000/25/4/9 - 13,2kW | 11090296 |
| HÉLIONE F200-1000/25/4/9 - 18 kW | 11090317 |
| HÉLIONE F200-1000/31/4/9 - 22,2 kW | 11090318 |
| HÉLIONE F200-1000/31/4/9 - 26,4 kW | 11090319 |

OPTIONS AVAILABLE

Long shell: includes an external, pre-cabled terminal box

SELECTION of HELIONE unclassified / F200(120) - 1 SPEED

Note: pressure loss on motor-side grille included The number of cases corresponds to the last figures of the Aldes code.

| | | | | Pressu | re (Pa) | | | |
|----------|-----|-----|-----|--------|---------|-----|-----|-----|
| Q (m3/h) | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 5400 | 299 | 299 | | | | | | |
| 7200 | 299 | 299 | | | | | | |
| 9000 | 299 | 300 | | | | | | |
| 10800 | 300 | 302 | | | | | | |
| 11400 | 302 | 302 | 305 | 305 | 304 | 309 | 309 | |
| 12000 | 302 | 302 | 305 | 294 | 304 | 309 | 309 | |
| 12600 | 302 | 303 | 305 | 294 | 304 | 309 | 309 | 314 |
| 13200 | 302 | 303 | 294 | 294 | 304 | 309 | 309 | 314 |
| 13800 | 302 | 303 | 294 | 294 | 309 | 309 | 309 | 314 |
| 14400 | 303 | 303 | 294 | 294 | 309 | 309 | 309 | 314 |
| 15000 | 303 | 303 | 294 | 294 | 309 | 309 | 309 | 314 |
| 15600 | 303 | 294 | 294 | 294 | 309 | 309 | 309 | 311 |
| 16200 | 294 | 294 | 294 | 306 | 309 | 309 | 309 | 311 |
| 16800 | 294 | 294 | 294 | 306 | 309 | 309 | 314 | 311 |
| 17400 | 294 | 294 | 306 | 306 | 309 | 309 | 314 | 311 |
| 18000 | 294 | 306 | 306 | 306 | 309 | 309 | 311 | 311 |
| 21000 | 306 | 306 | 307 | 309 | 309 | 309 | 311 | 311 |
| 24000 | 307 | 307 | 309 | 309 | 309 | 310 | 311 | 311 |
| 27000 | 307 | 307 | 309 | 310 | 310 | 310 | 311 | 295 |
| 30000 | 307 | 312 | 312 | 310 | 310 | 315 | 315 | 296 |
| 33000 | 307 | 312 | 313 | 310 | 315 | 315 | 315 | 296 |
| 36000 | 312 | 312 | 313 | 315 | 315 | 315 | 315 | 316 |
| 39000 | 312 | 313 | 315 | 315 | 315 | 315 | 316 | 296 |
| 42000 | 313 | 313 | 315 | 315 | 315 | 316 | 316 | 296 |
| 45000 | 313 | 315 | 315 | 316 | 316 | 316 | 296 | 317 |
| 48000 | 315 | 315 | 316 | 316 | 316 | 317 | 317 | 317 |
| 54000 | 316 | 316 | 316 | 316 | 317 | 317 | 317 | 318 |
| 60000 | 316 | 317 | 317 | 317 | 318 | 318 | 318 | 319 |
| 66000 | 317 | 318 | 318 | 319 | 319 | | | |
| 72000 | 319 | 319 | | | | | | |

ELECTRICAL CHARACTERISTICS F200 - 3-PHASE

| Motor F200 - 1-speed - 4 poles | | | | | | | |
|--------------------------------|-------------------|----------------------|--|--|--|--|--|
| Power (kW) | Rated current (A) | Start-up current (A) | | | | | |
| 0.9 | 2 | 9.4 | | | | | |
| 1.27 | 3.08 | 14.2 | | | | | |
| 1.8 | 3.75 | 19.8 | | | | | |
| 2.64 | 5.42 | 30.9 | | | | | |
| 3.6 | 7.03 | 38.6 | | | | | |
| 4.8 | 9.23 | 57.2 | | | | | |
| 6.6 | 12.6 | 84 | | | | | |
| 9 | 17.1 | 114 | | | | | |
| 11 | 21.4 | 107 | | | | | |
| 13.2 | 24.3 | 165.3 | | | | | |
| 18 | 34.7 | 170 | | | | | |
| 22.2 | 41.4 | 242 | | | | | |
| 26.4 | 49.8 | 284 | | | | | |





New HELIONE unclassified & F200 - 2 SPEED





Long ring

Compliance

- Classification F200° 2h.
- Conforms to EN 12101-3.

Advantages

- Up to 70,000 m³/h.
- Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

FIELD OF APPLICATION

- Ventilation & smoke extraction from covered car parks.
- Quick selection tables for the standard product range. For more information, contact us.

RECOMMENDATION

• When installing with anti-vibration mounts, above Ø 800, and for motors > 4 kW, it is recommended that the long shell option be used. Otherwise, rails should be used between the feet and pads to spread the load.

RANGE F200 (120) - 2-SPEED

| Description | Code |
|---|----------|
| HELIONE F200-560/20/4-8/6 - 0.92/0.23 kW | 11090320 |
| HELIONE F200-630/20/4-8/3 - 1.84/0.46 kW | 11090321 |
| HELIONE F200-710/20/4-8/3 - 1.84/0.46 kW | 11090322 |
| HELIONE F200-800/20/4-8/3 - 3.22/0.8 kW | 11090323 |
| HELIONE F200-710/20/4-8/6 - 3.22/0.8 kW | 11090324 |
| HELIONE F200-900/25/4-8/3 - 3.22/0.8 kW | 11090325 |
| HELIONE F200-900/25/4-8/6 - 3.22/0.8 kW | 11090326 |
| HELIONE F200-900/25/4-8/6 - 4.37/1.15 kW | 11090327 |
| HELIONE F200-900/25/4-8/6 - 5.75/1.5 kW | 11090328 |
| HELIONE F200-1000/25/4-8/3 - 4.37/1.15 kW | 11090329 |
| HELIONE F200-1000/25/4-8/3 - 5.75/1.5 kW | 11090330 |
| HELIONE F200-1000/25/4-8/6 - 4.37/1.15 kW | 11090331 |
| HELIONE F200-1000/25/4-8/6 - 5.75/1.5 kW | 11090332 |
| HELIONE F200-1000/25/4-8/6 - 7.2/1.8 kW | 11090333 |
| HELIONE F200-1000/25/4-8/6 - 12.7/3.45 kW | 11090334 |
| HELIONE F200-1000/25/4-8/9 - 16.1/4.03 kW | 11090335 |
| HELIONE F200-1000/31/4-8/9 - 19.6/4.95 kW | 11090336 |
| HELIONE F200-1000/31/4-8/9 - 23/5.75 kW | 11090337 |

OPTIONS AVAILABLE

Long shell: includes an external, pre-cabled terminal box.

SELECTION of HELIONE unclassified / F200(120) - 2 SPEED

Note: pressure loss on motor-side grille included.

The number of cases corresponds to the last figures of the Aldes code.

| | | Pressure (Pa) | | | | | | |
|-----------------------|-----|---------------|-----|-----|-----|-----|-----|-----|
| Q (m ³ /h) | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 5400 | 20 | 20 | | | | | | |
| 7200 | 20 | 20 | | | | | | |
| 9000 | 20 | 22 | | | | | | |
| 10800 | 21 | 22 | | | | | | |
| 11400 | 21 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 12000 | 21 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 12600 | 21 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 13200 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 13800 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 14400 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 15000 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 31 |
| 15600 | 22 | 23 | 24 | 24 | 26 | 27 | 27 | 32 |
| 16200 | 22 | 23 | 24 | 24 | 26 | 27 | 31 | 32 |
| 16800 | 22 | 23 | 24 | 24 | 26 | 27 | 31 | 32 |
| 17400 | 23 | 23 | 24 | 24 | 27 | 27 | 31 | 32 |
| 18000 | 23 | 23 | 24 | 24 | 27 | 27 | 31 | 32 |
| 21000 | 23 | 23 | 25 | 27 | 27 | 27 | 32 | 32 |
| 24000 | 23 | 25 | 27 | 27 | 27 | 28 | 32 | 33 |
| 27000 | 25 | 27 | 27 | 28 | 28 | 32 | 33 | 35 |
| 30000 | 27 | 27 | 29 | 28 | 32 | 33 | 33 | 35 |
| 33000 | 29 | 29 | 32 | 33 | 33 | 33 | 33 | 35 |
| 36000 | 29 | 29 | 30 | 33 | 33 | 33 | 34 | 34 |
| 39000 | 29 | 30 | 33 | 34 | 34 | 34 | 34 | 35 |
| 42000 | 30 | 33 | 34 | 34 | 34 | 34 | 35 | 35 |
| 45000 | 33 | 34 | 34 | 34 | 34 | 34 | 35 | 35 |
| 48000 | 34 | 34 | 34 | 34 | 34 | 35 | 35 | 35 |
| 54000 | 34 | 34 | 34 | 35 | 35 | 35 | 36 | 36 |
| 60000 | 35 | 35 | 36 | 36 | 36 | 36 | 37 | 37 |
| 66000 | 36 | 36 | 37 | 37 | 37 | | | |
| 72000 | 37 | 37 | | | | | | |

ELECTRICAL CHARACTERISTICS F200 - 3-PHASE

| Motor F200 - 2-speed - 4/8 poles | | | | | | |
|----------------------------------|-------------------|----------------------|--|--|--|--|
| Power (kW) | Rated current (A) | Start-up current (A) | | | | |
| 0.92/0.23 | 2.21/0.94 | 9.3/2.4 | | | | |
| 1.84/0.46 | 4.23/1.77 | 21.6/5.5 | | | | |
| 3.22/0.8 | 6.8/2.54 | 36/8.6 | | | | |
| 4.37/1.15 | 9.23/3.02 | 55.4/10.8 | | | | |
| 5.75/1.5 | 11.8/3.78 | 88.5/21.5 | | | | |
| 7.2/1.8 | 13.8/4.24 | 89.7/22 | | | | |
| 12.7/3.45 | 24/7.81 | 146/30.5 | | | | |
| 16.1/4.03 | 30.4/9.41 | 192/35.8 | | | | |
| 19.6/4.95 | 37.9/14 | 269/50.4 | | | | |
| 23/5.75 | 43.4/15.1 | 339/72.5 | | | | |



New HELIONE F400 - 1-SPEED





Long ring

Compliance

- Class: F400° 2h.
- CE compliant: EN 12101-3.

Advantages

- Up to 70,000 m3/h.
- Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

FIELD OF APPLICATION

- · Ventilation & smoke extraction from covered car
- Quick selection tables covering standard products, for more information, contact us.

RECOMMENDATION

 \bullet When installing with anti-vibration mounts, above Ø 800, and for motors >4 kW, it is recommended that the long shell option be used. Otherwise, rails should be used between the feet and pads to spread the load.

RANGE F400 (120) - 1-SPEED

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|----------|
| Description | Code |
| HELIONE F400-560/16/4/5 - 0.9 kW | 11090340 |
| HELIONE F400-630/20/4/6 - 0.9 kW | 11090341 |
| HELIONE F400-630/20/4/6 - 1.27 kW | 11090342 |
| HELIONE F400-630/20/4/6 - 1.8 kW | 11090343 |
| HELIONE F400-710/25/4/6 - 1.8 kW | 11090345 |
| HELIONE F400-800/25/4/3 - 2.64 kW | 11090347 |
| HELIONE F400-800/25/4/6 - 2.64 kW | 11090348 |
| HELIONE F400-800/25/4/6 - 3.6 kW | 11090349 |
| HELIONE F400-900/25/4/6 - 4.8 kW | 11090352 |
| HELIONE F400-900/25/4/6 - 6.6 kW | 11090353 |
| HELIONE F400-900/25/4/9 - 3.6 kW | 11090354 |
| HELIONE F400-900/25/4/9 - 4.8 kW | 11090355 |
| HELIONE F400-900/25/4/9 - 6.6 kW | 11090356 |
| HELIONE F400-900/25/4/9 - 9 kW | 11090357 |
| HELIONE F400-900/25/4/9 - 11 kW | 11090358 |
| HELIONE F400-1000/31/4/6 - 6.6 kW | 11090359 |
| HELIONE F400-1000/31/4/6 - 11 kW | 11090361 |
| HELIONE F400-1000/31/4/6 - 13.2 kW | 11090362 |
| HELIONE F400-1000/31/4/9 - 11 kW | 11090363 |
| HELIONE F400-1000/31/4/9 - 13.2 kW | 11090364 |
| HELIONE F400-1000/31/4/9 - 18 kW | 11090365 |
| HELIONE F400-1000/31/4/9 - 27kW | 11090367 |

OPTIONS AVAILABLE

Long shell: includes an external, pre-cabled terminal hox.

SELECTION of HELIONE F400(120) - 1 SPEED

Note: pressure loss on motor-side grille included.

The number of cases corresponds to the last figures of the Aldes code.

| | Pressure (Pa) | | | | | | | |
|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|
| Q (m ³ /h) | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 5400 | 40 | 41 | 45 | 45 | | | | |
| 7200 | 40 | 42 | 45 | 48 | | | | |
| 9000 | 42 | 42 | 45 | 48 | | | | |
| 10800 | 42 | 43 | 45 | 48 | | | | |
| 11400 | 43 | 43 | 48 | 48 | | | | |
| 12000 | 43 | 43 | 48 | 48 | 52 | 52 | 55 | 55 |
| 12600 | 43 | 45 | 48 | 48 | 52 | 52 | 55 | 55 |
| 13200 | 43 | 47 | 48 | 52 | 52 | 52 | 55 | 55 |
| 13800 | 45 | 47 | 48 | 52 | 52 | 52 | 55 | 56 |
| 14400 | 45 | 47 | 48 | 48 | 52 | 55 | 55 | 56 |
| 15000 | 47 | 47 | 48 | 52 | 52 | 55 | 55 | 56 |
| 15600 | 47 | 48 | 48 | 52 | 52 | 55 | 55 | 56 |
| 16200 | 47 | 48 | 48 | 52 | 52 | 55 | 55 | 56 |
| 16800 | 47 | 48 | 48 | 52 | 52 | 55 | 56 | 56 |
| 17400 | 47 | 48 | 49 | 52 | 52 | 55 | 56 | 56 |
| 18000 | 47 | 48 | 49 | 52 | 52 | 55 | 56 | 59 |
| 21000 | 47 | 49 | 49 | 52 | 56 | 56 | 63 | 63 |
| 24000 | 49 | 52 | 52 | 52 | 56 | 56 | 63 | 63 |
| 27000 | 52 | 52 | 52 | 53 | 56 | 57 | 57 | 63 |
| 30000 | 52 | 52 | 53 | 53 | 57 | 57 | 63 | 63 |
| 33000 | 53 | 53 | 53 | 57 | 57 | 57 | 63 | 63 |
| 36000 | 53 | 53 | 57 | 57 | 57 | 58 | 63 | 64 |
| 39000 | 57 | 57 | 57 | 58 | 58 | 61 | 64 | 64 |
| 42000 | 57 | 58 | 58 | 58 | 61 | 64 | 64 | 65 |
| 45000 | 58 | 58 | 61 | 61 | 64 | 64 | 65 | 65 |
| 48000 | 61 | 61 | 61 | 62 | 62 | 65 | 65 | 65 |
| 54000 | 61 | 62 | 62 | 65 | 65 | 65 | 67 | 67 |
| 60000 | 62 | 65 | 65 | 67 | 67 | 67 | | |
| 66000 | 67 | 67 | 67 | 67 | | | | |
| 72000 | 67 | | | | | | | |

ELECTRICAL CHARACTERISTICS F400 - 3-PHASE

| Motor F400 - 1-speed - 4 poles | | | | | | | |
|--------------------------------|-------------------|----------------------|--|--|--|--|--|
| Power (kW) | Rated current (A) | Start-up current (A) | | | | | |
| 0.9 | 2 | 9.4 | | | | | |
| 1.27 | 3.08 | 14.2 | | | | | |
| 1.8 | 3.75 | 19.8 | | | | | |
| 2.64 | 5.42 | 30.9 | | | | | |
| 3.6 | 7.03 | 38.6 | | | | | |
| 4.8 | 9.23 | 57.2 | | | | | |
| 6.6 | 12.6 | 84 | | | | | |
| 9 | 17.1 | 114 | | | | | |
| 11 | 21.4 | 107 | | | | | |
| 13.2 | 24.3 | 165.3 | | | | | |
| 18 | 34.7 | 170 | | | | | |
| 27 | 49.8 | 284 | | | | | |





New HELIONE F400 - 2-SPEED





Short ring Long ring

Compliance

- Class: F400° 2h.
- CE compliant: EN 12101-3.

Advantages

- Up to 70,000 m³/h.
- Wide range, for car-parks, commercial & industrial premises.
- Numerous accessories for easy introduction.

FIELD OF APPLICATION

- Smoke extraction for commercial & industrial premises.
 Ventilation & smoke extraction from covered car
- parks.
- Quick selection tables covering standard products, for more information, contact us.

RECOMMENDATION

 When installing with anti-vibration mounts, above Ø 800, and for motors > 4 kW, it is recommended that the long shell option be used. Otherwise, rails should be used between the feet and pads to spread the load.

RANGE F400 (120) - 2-SPEED

| Description | Code |
|---|----------|
| HELIONE F400-560/16/4-8/5 - 0,92/0,23 KW | 11090370 |
| HELIONE F400-630/20/4-8/6 - 0,92/0,23 KW | 11090371 |
| HELIONE F400-630/20/4-8/6 - 1,84/0,46 KW | 11090372 |
| HELIONE F400-710/25/4-8/6 - 1,84/0,46 KW | 11090373 |
| HELIONE F400-800/25/4-8/3 - 1,84/0,46 KW | 11090374 |
| HELIONE F400-800/25/4-8/6 - 2,53/0,63 KW | 11090376 |
| HELIONE F400-800/25/4-8/6 - 3,22/0,8 KW | 11090377 |
| HELIONE F400-900/25/4-8/3 - 3,22/0,8 KW | 11090378 |
| HELIONE F400-900/25/4-8/6 - 4,37/1,15 KW | 11090379 |
| HELIONE F400-900/25/4-8/6 - 5,75/1,5 KW | 11090380 |
| HELIONE F400-900/25/4-8/6 - 7,92/1,98 KW | 11090381 |
| HELIONE F400-900/25/4-8/9 - 4,37/1,15 KW | 11090382 |
| HELIONE F400-900/25/4-8/9 - 5,75/1,5 KW | 11090383 |
| HELIONE F400-900/25/4-8/9 - 7,92/1,98 KW | 11090384 |
| HELIONE F400-900/25/4-8/9 - 12,7/3,45 KW | 11090385 |
| HELIONE F400-1000/31/4-8/6 - 7,92/1,98 KW | 11090387 |
| HELIONE F400-1000/31/4-8/6 - 12,7/3,45 KW | 11090388 |
| HELIONE F400-1000/31/4/8/9 - 7,92/1,98 KW | 11090297 |
| HELIONE F400-1000/31/4/8/9 - 12,7/3,45 KW | 11090298 |
| HELIONE F400-1000/31/4-8/9 - 16,1/4,03 KW | 11090389 |
| HELIONE F400-1000/31/4-8/9 - 19,6/4,95 KW | 11090390 |
| HELIONE F400-1000/31/4-8/9 - 23/5,75 KW | 11090391 |
| | |

SELECTION of HELIONE F400(120) - 2 SPEED

Note: pressure loss on motor-side grille included.

The number of cases corresponds to the last figures of the Aldes code.

| | Pressure (Pa) | | | | | | | |
|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|
| Q (m ³ /h) | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 5400 | 70 | 71 | 73 | 73 | | | | |
| 7200 | 70 | 71 | 73 | 76 | | | | |
| 9000 | 72 | 72 | 73 | 76 | | | | |
| 10800 | 72 | 72 | 73 | 76 | | | | |
| 11400 | 72 | 72 | 73 | 76 | | | | |
| 12000 | 72 | 72 | 76 | 76 | 79 | 79 | 82 | 83 |
| 12600 | 72 | 73 | 76 | 76 | 79 | 79 | 82 | 83 |
| 13200 | 72 | 74 | 76 | 79 | 79 | 79 | 82 | 83 |
| 13800 | 73 | 74 | 76 | 79 | 79 | 82 | 83 | 83 |
| 14400 | 73 | 74 | 76 | 79 | 79 | 82 | 83 | 83 |
| 15000 | 74 | 74 | 76 | 79 | 79 | 82 | 83 | 83 |
| 15600 | 74 | 76 | 77 | 79 | 79 | 83 | 83 | 83 |
| 16200 | 74 | 76 | 77 | 79 | 79 | 83 | 83 | 83 |
| 16800 | 74 | 76 | 77 | 79 | 79 | 83 | 83 | 83 |
| 17400 | 74 | 77 | 77 | 79 | 79 | 83 | 83 | 83 |
| 18000 | 74 | 77 | 77 | 79 | 79 | 83 | 83 | 83 |
| 21000 | 77 | 77 | 79 | 79 | 83 | 83 | 83 | 297 |
| 24000 | 78 | 79 | 79 | 79 | 83 | 84 | 83 | 298 |
| 27000 | 78 | 79 | 80 | 80 | 84 | 84 | 84 | 298 |
| 30000 | 79 | 80 | 80 | 81 | 84 | 85 | 85 | 298 |
| 33000 | 80 | 81 | 81 | 81 | 85 | 85 | 298 | 298 |
| 36000 | 81 | 81 | 81 | 87 | 87 | 85 | 298 | 298 |
| 39000 | 81 | 87 | 87 | 87 | 85 | 85 | 298 | 89 |
| 42000 | 87 | 87 | 85 | 85 | 85 | 88 | 89 | 89 |
| 45000 | 87 | 85 | 85 | 85 | 88 | 89 | 89 | 89 |
| 48000 | 88 | 88 | 88 | 88 | 89 | 89 | 89 | 89 |
| 54000 | 88 | 88 | 89 | 89 | 90 | 90 | 90 | 91 |
| 60000 | 89 | 90 | 90 | 90 | 91 | 91 | | |
| 66000 | 90 | 91 | 91 | 91 | | | | |
| 72000 | 91 | | | | | | | |

ELECTRICAL CHARACTERISTICS F400 - 3-PHASE

| Motor F400 - 2-speed - 4/8 poles | | | | | | |
|----------------------------------|-------------------|----------------------|--|--|--|--|
| Power (kW) | Rated current (A) | Start-up current (A) | | | | |
| 0.92/0.23 | 2.21/0.94 | 9.3/2.4 | | | | |
| 1.84/0.46 | 4.23/1.77 | 21.6/5.5 | | | | |
| 2.53/0.63 | 5.46/2.07 | 33.4/7 | | | | |
| 3.22/0.8 | 6.8/2.54 | 36/8.6 | | | | |
| 4.37/1.15 | 9.23/3.02 | 57.8/11 | | | | |
| 5.75/1.5 | 11.8/3.78 | 88.5/21.5 | | | | |
| 7.92/1.98 | 16.3/4.83 | 117/28.5 | | | | |
| 12.7/3.45 | 24/7.81 | 146/30.5 | | | | |
| 16.1/4.03 | 30.4/9.41 | 192/35.8 | | | | |
| 19.6/4.95 | 37.9/14 | 269/50.4 | | | | |
| 23/5.75 | 43.4/15.1 | 339/72.5 | | | | |

OPTIONS AVAILABLE

Long shell: includes an external, pre-cabled terminal box

70 Fire Protection Compulsor n°9





HELIONE accessories



Protective screen



Wings



Anti-vibration mountings



Feet Dimensions of accessories available on request.



Backdraft damper



Flexible sleeve

The choice of accessories is dependent on the diameter of the fan propeller.

| • | | | | | | | | |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Diameter (mm) | 560 | 630 | 710 | 800 | 900 | 1000 | 1120 | 1250 |
| Flexible sleeve | 11090400 | 11090401 | 11090402 | 11090403 | 11090404 | 11090405 | 11090406 | 11090407 |
| Counter flange | 11090408 | 11090409 | 11090410 | 11090411 | 11090412 | 11090413 | 11090414 | 11090415 |
| Fan grille | 11090416 | 11090417 | 11090418 | 11090419 | 11090420 | 11090421 | 11090422 | 11090423 |
| Motor grille for long shell | 11090424 | 11090425 | 11090426 | 11090427 | 11090428 | 11090429 | 11090430 | 11090431 |
| Motor grille for short shell | 11090472 | 11090473 | 11090474 | 11090475 | 11090476 | 11090477 | 11090478 | 11090479 |
| Set of 2 feet | 11090480 | 11090481 | 11090482 | 11090483 | 11090484 | 11090485 | 11090486 | 11090487 |
| Set of 4 HELIONE F200 pads | 11090490 | 11090490 | 11090490 | 11090492 | 11090492 | 11090495 | 11090495 | 11090495 |
| Square 'economy' plate | 11090456 | 11090457 | 11090458 | 11090459 | 11090460 | 11090461 | 11090462 | 11090463 |
| Square 'reinforced' plate | 11090464 | 11090465 | 11090466 | 11090467 | 11090468 | 11090469 | 11090470 | 11090471 |
| Vertical backdraft damper | 11090440 | 11090441 | 11090442 | 11090443 | 11090444 | 11090445 | - | - |
| Horizontal backdraft damper | 11090448 | 11090449 | 11090450 | 11090451 | 11090452 | 11090453 | 11090454 | 11090455 |
| Inlet unit | 11090432 | 11090433 | 11090434 | 11090435 | 11090436 | 11090437 | 11090438 | 11090439 |

Accessories are supplied un-installed.

Smoke extraction - residential parking



Advantages

• New: Single cabinet for 2 fans (2 floors for example).

FIELD OF APPLICATION

- Unit used to programme fan start-up (SLOW/HI/ STAND-BY) to match traffic levels in the car park.
 It is particularly useful in apartment block car parks
- It handles the start-up of manual smoke clearance and the stoppage of smoke clearance on request from the fire services.

DESCRIPTION

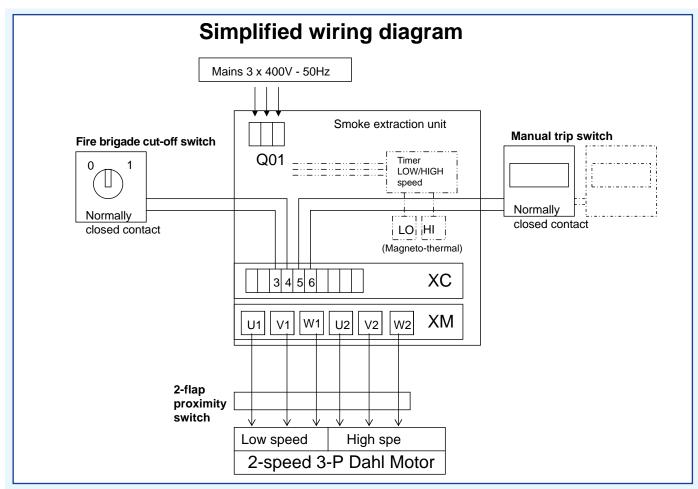
- Plastic box IP 55.
- Dimensions: width x height x depth = 375 x 375 x 200 mm.
- Weekly programming time (secure).
- Motor protection for High & Low speeds using magneto-thermal CBs, current selection to match motors used.
- Range for 2-speed Dahlander 3P 400V motors.
- Input/Output terminals for manual smoke clearance trigger on current outage (dry contact open).
- Possibility of connecting a key-operated fir service shutdown switch (dry contact open).
- Manuals and plans available from your agency.

RANGE

| Description | Power | Code |
|-------------------------------------|-------------------|----------|
| Car Park box: 4.0 A / 1.6 A - DAHL | 1.1 kW / 0.18 kW | 11057252 |
| Car Park box: 9.0 A / 2.4 A - DAHL | 3 KW / 0.55 KW | 11057253 |
| Car Park box: 16.0 A / 6.0 A - DAHL | 7.5 KW / 1.5 KW | 11057254 |
| Car Park box: 6.0 A / 1.6 A - DAHL | 2.2 KW / 0.37 KW | 11057255 |
| Car Park box: 12 A / 4 A - DAHL | 5.5 KW / 1.1 KW | 11057256 |
| Car Park box: 24 A / 6.0 A - DAHL | 11 KW / 2.8 KW | 11057257 |
| Car Park box: 32 A / 10 A - DAHL | 15.3 KW / 3.8 KW | 11057258 |
| Car Park box: 40 A / 12 A - DAHL | 18 KW / 4.8 KW | 11057259 |
| Car Park box: 57 A / 16 A - DAHL | 22 KW / 5.3 KW | 11057260 |
| New Car park box - 2 fans | Please contact us | 11057261 |

ACCESSORIES

| Description | Code |
|---------------------------------|----------|
| Manual trigger | 11044121 |
| Fire service shutdown (NO + NC) | 11057251 |





Three-phase variable speed control

VARILONE VF: frequency controller for professional kitchens



VARILONE VF

Advantages

- Pre-set for professional kitchen use for easy wiring.
- Continual, progressive airflow settings.
- 1 potentiometer & 1 remote Hi-speed emergency shutdown.

FIELD OF APPLICATION

- Frequency variation speed controller for asynchronous 3 phase motor 230/400V - 50 Hz.
- The VARILONE VF is factory pre-set to be controlled by a remote RD potentiometer and a priority highspeed emergency stop button.
- Ideal for use in professional kitchens, notably to control VELONE roof fans and EXONE casings.
- Single speed motors only. Do not use on 2-speed motors.

DESCRIPTION

- Power ON LCD.
- IP 20 box.
- No ON/OFF switch.
- CE & UL Certification.
- Integrated class A EMC filter Class B filter recommended for residential environments, ask us for details.
- 1 status change relay if potentiometer requires 0 Hz. Note 1: Activating the Emergency Stop button chops the controller to maximum smoke extraction mode for large kitchens.

Note 2: The potentiometer on the front of the unit is inactive, only the remote potentiometer functions.

STANDARD RANGE

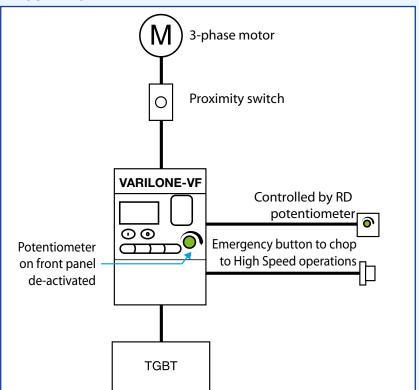
| Description | Code |
|--------------------------------|----------|
| MONO/3 phase range | • |
| VARILONE VF 0.75 kW - Mono/3-P | 11057265 |
| VARILONE VF 1.5 kW - Mono/3-P | 11057266 |
| VARILONE VF 2.2 kW - Mono/3-P | 11057267 |
| 3/3 phase range | |
| VARILONE VF 0.75 kW - 3-P/3-P | 11057270 |
| VARILONE VF 1.5 kW - 3-P/3-P | 11057271 |
| VARILONE VF 2.2 kW - 3-P/3-P | 11057272 |
| VARILONE VF 3 kW - 3-P/3-P | 11057273 |
| VARILONE VF 4 kW - 3-P/3-P | 11057274 |
| VARILONE VF 7.5 kW - 3-P/3-P | 11057275 |

INSTALLATION ACCESSORIES

- Emergency stop (closure): priority to High Fan speed. Box: IP65.
- Potentiometer + emergency stop button in a single IP65 box (RD + CPGV).

| Description | Code |
|--|----------|
| RD potentiometer - IP65 | 11057065 |
| Emergency stop button (High speed override) | 11057759 |
| Remote potentiometer & emergency stop button (High speed override) box | 11057066 |

LAYOUT DIAGRAM



DIMENSIONS

| Type of Varilone VF | Width | Height | Depth |
|----------------------------------|-------|--------|-----------------------------|
| Varilone VF 0.75 kW | 110 | 155 | 136 Mono/3-P 163 3-P/3-P |
| Varilone VF 1.5 / 2.2 / 3 / 4 kW | 110 | 155 | 163 |
| Varilone VF 7.5 kW | 180 | 250 | 163 |

aldes

Electrical Accessories

3-phased auto transformer



FIELD OF APPLICATION

- Voltage controller for 1-speed asynchronous 3-P 400V motor, compatible with voltage variation.
- Compatible with VELONE, EXONE.

RANGE

| Description | Code |
|----------------------------------|----------|
| Three-phase 2 A autotransformer | 11086096 |
| Three-phase 4 A autotransformer | 11086097 |
| Three-phase 6 A autotransformer | 11086098 |
| Three-phase 8 A autotransformer | 11086099 |
| Three-phase 14 A autotransformer | 11057060 |

DIMENSIONS (mm) - WEIGHT (kg)

| Туре | W | Н | Р | Weight |
|----------------------------------|-----|-----|-----|--------|
| Three-phase 2 A autotransformer | 200 | 280 | 140 | 6.0 |
| Three-phase 4 A autotransformer | 250 | 300 | 200 | 14.0 |
| Three-phase 6 A autotransformer | 300 | 400 | 200 | 20.5 |
| Three-phase 8 A autotransformer | 300 | 400 | 200 | 27.7 |
| Three-phase 14 A autotransformer | 500 | 400 | 250 | 38.0 |

TECHNICAL DETAILS

- Auto-transformer voltage controller.
- 3-phase 400 V, 50 Hz + neutral.
- Metallic, epoxy covered IP55.
- Front panel of box fitted with voltage indicator and 5 position selector switch + I/O (130 180 230 300 400 V).
- Hinged access door.
- No motor protection.

Frequency controller



FIELD OF APPLICATION

- Frequency controller designed for single speed asynchronous 3 phase 230/400 V - 50/60 Hz motor.
- Compatible with all ALDES 1-speed 3-Phase motors.
- See General Aldes Catalogue.



2-speed comfort unit



FIELD OF APPLICATION

- These units, for three-phase 400 V dual-speed fan units or roof fans with independent windings or Dahlander systems, enable:

 Manual speed control: Stop, low speed, high speed Thermal protection of the motor at high and low
 - speed.

DESCRIPTION

- ABS IP65 box.
- Knock-out cable gland entries (cable glands not
- 3-position selector on front face (LOW-STOP-HIGH)
- Appropriately sized 400V contactors.
 2 thermal relays (LO/HI) of appropriate sizes.

RANGE

| Description | Code |
|-------------------------------|----------|
| 2-speed Dahlander cou | oling |
| 2-speed box Dahlander 1.6/0.6 | 11057235 |
| 2-speed box Dahlander 2.4/1.0 | 11057236 |
| 2-speed box Dahlander 4/1.6 | 11057237 |
| 2-speed box Dahlander 4/1 | 11057238 |
| 2-speed box Dahlander 4/2.4 | 11057239 |
| 2-speed box Dahlander 6/2.4 | 11057240 |
| 2-speed box Dahlander 9/2.4 | 11057241 |
| 2-speed box Dahlander 9/4 | 11057242 |
| 2-speed box Dahlander 9/6 | 11057243 |
| 2-speed box Dahlander 10/4 | 11057244 |
| 2-speed box Dahlander 16/4 | 11057245 |
| 2-speed box Dahlander 16/6 | 11057246 |
| 2-speed box Dahlander 24/10 | 11057247 |

| Description | Code |
|----------------------------|------------|
| 2 SPEED - Independent wind | dings (BI) |
| 2-speed box BI 1.6/0.6 | 11057280 |
| 2-speed box BI 1.6/1.6 | 11057281 |
| 2-speed box BI 2.4/1.6 | 11057282 |
| 2-speed box BI 2.4/1.0 | 11057283 |
| 2-speed box BI 4/1.6 | 11057284 |
| 2-speed box BI 4/2.4 | 11057285 |
| 2-speed box BI 6/2.4 | 11057286 |
| 2-speed box BI 6/4 | 11057287 |
| 2-speed box BI 9/4 | 11057288 |
| 2-speed box BI 9/6 | 11057289 |
| 2-speed box BI 10/6 | 11057290 |
| 2-speed box BI 16/6 | 11057291 |
| 2-speed box BI 16/10 | 11057292 |
| 2-speed box BI 24/10 | 11057293 |

Electrical and mechanical characteristics

| | | | | Rated current (Low) (A) | | Dimensions | |
|---|----------|----------|----------|----------------------------|---------|------------|--------|
| Description | Ith mini | Ith maxi | Ith mini | Ith maxi | W (mm) | H (mm) | D (mm) |
| MOTOR - 2 SPEED - Independent windings (BI) | | | | | | | |
| 2-speed box Dahlander 1.6/0.6 | 1.0 | 1.6 | 0.4 | 0.6 | 160 | 240 | 152 |
| 2-speed box Dahlander 2.4/1.0 | 1.6 | 2.4 | 0.6 | 1.0 | 160 | 240 | 152 |
| 2-speed box Dahlander 4/1.6 | 2.4 | 4.0 | 1.0 | 1.6 | 160 | 240 | 152 |
| 2-speed box Dahlander 4/1 | 2.4 | 4.0 | 0.6 | 1.0 | 160 | 240 | 152 |
| 2-speed box Dahlander 4/2.4 | 2.4 | 4.0 | 1.6 | 2.4 | 160 | 240 | 152 |
| 2-speed box Dahlander 6/2.4 | 4.0 | 6.0 | 1.6 | 2.4 | 160 | 240 | 152 |
| 2-speed box Dahlander 9/2.4 | 6.0 | 9.0 | 2.4 | 4.0 | 160 | 240 | 152 |
| 2-speed box Dahlander 9/4 | 6.0 | 9.0 | 2.4 | 4.0 | 160 | 240 | 152 |
| 2-speed box Dahlander 9/6 | 6.0 | 9.0 | 4.0 | 6.0 | 160 | 240 | 152 |
| 2-speed box Dahlander 10/4 | 6.0 | 10.0 | 2.4 | 4.0 | 200 | 280 | 152 |
| 2-speed box Dahlander 16/4 | 10.0 | 16.0 | 2.4 | 4.0 | 200 | 280 | 152 |
| 2-speed box Dahlander 16/6 | 10.0 | 16.0 | 4.0 | 6.0 | 200 | 280 | 152 |
| 2-speed box Dahlander 24/10 | 16.0 | 24.0 | 6.0 | 10.0 | 200 | 280 | 152 |
| 2-speed box Dahlander 40/10 | 24.0 | 40.0 | 6.0 | 10.0 | 375 | 375 | 175 |
| 2-speed box Dahlander 24/16 | 24.0 | 40.0 | 10.0 | 16.0 | 375 | 375 | 175 |
| 2-speed box Dahlander 57/16 | 40.0 | 57.0 | 10.0 | 16.0 | 375 | 375 | 175 |
| 2-speed box Dahlander 57/24 | 40.0 | 57.0 | 16.0 | 24.0 | 375 | 375 | 175 |
| MOTOR - 2 S | PEED | - Indep | endent | windin | gs (BI) | | |
| 2-speed box BI 1.6/0.6 | 1.0 | 1.6 | 0.4 | 0.6 | 160 | 240 | 152 |
| 2-speed box BI 1.6/1.6 | 1.0 | 1.6 | 1.0 | 1.6 | 160 | 240 | 152 |
| 2-speed box BI 2.4/1.6 | 1.6 | 2.4 | 1.0 | 1.6 | 160 | 240 | 152 |
| 2-speed box BI 2.4/1.0 | 1.6 | 2.4 | 0.6 | 1.0 | 160 | 240 | 152 |
| 2-speed box BI 4/1.6 | 2.4 | 4.0 | 1.0 | 1.6 | 160 | 240 | 152 |
| 2-speed box BI 4/2.4 | 2.4 | 4.0 | 1.6 | 2.4 | 160 | 240 | 152 |
| 2-speed box BI 6/2.4 | 4.0 | 6.0 | 1.6 | 2.4 | 160 | 240 | 152 |
| 2-speed box BI 6/4 | 4.0 | 6.0 | 2.4 | 4.0 | 160 | 240 | 152 |
| 2-speed box BI 9/4 | 6.0 | 9.0 | 2.4 | 4.0 | 160 | 240 | 152 |
| 2-speed box BI 9/6 | 6.0 | 9.0 | 4.0 | 6.0 | 160 | 240 | 152 |
| 2-speed box BI 10/6 | 6.0 | 10.0 | 4.0 | 6.0 | 160 | 240 | 152 |
| 2-speed box BI 16/6 | 10.0 | 16.0 | 4.0 | 6.0 | 200 | 280 | 152 |
| 2-speed box BI 16/10 | 10.0 | 16.0 | 6.0 | 10.0 | 200 | 280 | 152 |
| 2-speed box BI 24/10 | 16.0 | 24.0 | 6.0 | 10.0 | 200 | 280 | 152 |
| 2-speed box BI 40/10 | 24.0 | 40.0 | 6.0 | 10.0 | 250 | 375 | 175 |
| 2-speed box BI 40/16 | 24.0 | 40.0 | 10.0 | 16.0 | 250 | 375 | 175 |
| 2-speed box BI 57/16 | 40.0 | 57.0 | 10.0 | 16.0 | 250 | 375 | 175 |
| 2-speed box BI 57/24 | 40.0 | 57.0 | 16.0 | 24.0 | 250 | 375 | 175 |

Ides Fire Protection Compulsor n°9

Proximity switch disconnector



FIELD OF APPLICATION

- On/Off proximity disconnector function padlockable, for category AC 23 A use (high breaking capacity).
- Compatible with all single-phase or three-phase fan units (depending on max. consumed power).

DESCRIPTION

- In IP64 box for surface mounting.
- Category of use: AC3.
- Fitted with auxiliary NO and NF contacts for 3-phase models only.
- Supplied with wiring instructions.

Pressure switch kit



FIELD OF APPLICATION

- This safety device is used to detect operational anomalies with the fan (pressure loss) respecting the norms and standards in force.
- Compatible with all fans, units or roof fans manufactured by ALDES.

DESCRIPTION

- Box to be installed inside or outside fan unit casing or on ductwork.
- Supplied as a complete kit, ready for installation. Kit comprises 2 m of crystal tubing, 2 pressure ports or cable guides, mounting accessories, fixed alarm level (80 Pa) or adjustable pressure switch and assembly instructions.

RANGE

| Description | W x H x D (mm) | Code |
|--|-----------------|----------|
| 1-speed 1-phase proximity switch 0.9 kW. | 86 x 86 x 108 | 11056196 |
| 1-speed 3-phase proximity switch 7.5 kW + contacts | 86 x 86 x 120 | 11057606 |
| 1-speed 3-phase proximity switch 22.5 kW + contacts | 180 x 110 x 143 | 11057607 |
| 1-speed 3-phase proximity switch 30 kW + contacts | 182 x 180 x 148 | 11057608 |
| 2-speed 3-phase proximity switch 7.5 kW + contacts | 86 x 86 x 120 | 11057613 |
| 2-speed 3-phase proximity switch 22.5 kW + contacts | 182 x 180 x 148 | 11057610 |
| 2-speed 3-phase proximity switch 30 kW + contacts | 254 x 180 x 148 | 11057611 |

RANGE

| Description | Code |
|--|----------|
| 80 Pa fixed pressure switch kit | 11025018 |
| 40-300 Pa adjustable pressure switch kit | 11091001 |
| 100-1000 Pa adjustable pressure switch kit | 11091002 |



Single-phase variable speed control

Single phase auto-transformer



Advantages

Precise settings - 5 positions.

FIELD OF APPLICATION

- Variable speed control designed for single-phase 230 V AC single-speed motors, compatible with voltage regulation.
- Compatible with TVEC Silence, VEKITA+ (acoustics), HELICA, THELIA mono, VDA mono & VC.

DESCRIPTION

- Fitted inside IP54 box.
- Manual 5-position settings + OFF (110 - 140 - 170 - 200 - 230 V).
- Power ON lamp.
- Built-in protective fuse.
- Supplementary non-regulated 230 V output.
- 230 VAC 50/60 Hz.

RANGE

| Description | Code | W x H x D (mm) |
|-------------------------------|----------|-----------------|
| 1-phase 1.5 A autotransformer | 11086100 | 115 x 180 x 85 |
| 1-phase 3.5 A autotransformer | 11086418 | 170 x 245 x 140 |
| 1-phase 5.0 A autotransformer | 11086417 | 170 x 245 x 140 |
| 1-phase 13 A autotransformer | 11057061 | 300 x 300 x 170 |

Single-phase 3-10A voltage controller



Advantages

- Continual variation
- Separate ON/OFF switch.
- Safe start-up function full voltage.

FIELD OF APPLICATION

 Voltage controller designed for 1-speed 230V singlephase motors with a maximum current of less than 3, 5 & 10 A respectively, compatible with voltage variation.

DESCRIPTION

- Fitted inside IP54 box.
- PCB design.
- Remote ON/OFF switch (on the side of the unit).
- Integrated anti-parasite function (EMC).
- Built-in protective fuse.
- 230 VAC 50/60 Hz.
- Full voltage start-up function: on start-up, the controller applies maximum voltage for 6 7 seconds before returning to the voltage selected by the potentiometer. This function prevents re-starts at low voltage, which can damage the motor.
- Minimum speed can be pre-set (100 V by default).

RANGE

| Description | Code | W x H x D (mm) |
|-------------------------|----------|----------------|
| Voltage regulator 3.0 A | 11086024 | 83 x 140 x 88 |
| Voltage regulator 5.0 A | 11086013 | 83 x 160 x 88 |
| Voltage regulator 10 A | 11057067 | 115 x 195 x 95 |



des Fire Protection Compulsor n°9

Smoke exhaust dampers and air inlets

This section presents the air inlets and smoke exhaust dampers for use in commercial & high-rise buildings.

All smoke extraction dampers are now marked **C** as conforming to NF-S-61937-10 & certified **NF**

(For more information, see page 86).

The new range of OPTONE grilles is remarkable, notably due to the ease with which motorisation can be added, on-site, to the 1-flap & 2-flap dampers. The OPTONE "+GRILLE" model is also patented and a first for the market.

Note: Ask for the CONCEPTOR - SMOKE EXTRACTION software or an update, it will save you considerable time when selecting new smoke extraction dampers.

The offer for residential buildings is presented in the new COMPULSOR - RESIDENTIAL SMOKE EXTRACTION 36-page document.





Smoke exhaust dampers



OPTONE smoke exhaust shutter **p. 89**



PLAFUNE smoke exhaust damper **p. 108**

Aesthetic grilles





Aesthetic damper grilles **p. 97**



OXYTONE smoke exhaust air inlets

OXYTONE PANNEAU 2012 air inlet @





OXYTONE PANNEAU 2012 closed, in stand-by position

Open in safety position

Compliance

- Compliant with NF-S-61937-8 concerning air inlets.
- Complies with CE marking in accordance with EN 12101-2 (possibility of using OXYTONE PANNEAU 2012 for natural smoke extraction).

Advantages

- · Insulated air inlet.
- · New: Invisible mechanism, integrated in frame.
- · Choice of RAL paint.
- · Aesthetic GFAP 007 indoor grille - Identical to that used on the smoke exhaust damper.

FIELD OF APPLICATION

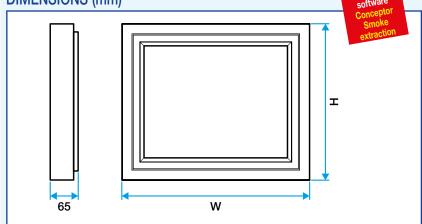
- OXYTONE PANNEAU 2012 is a remote-controlled air inlet, opening outwards and used exclusively for air inlet applications. These air inlets are designed for natural and mechanical smoke exhaust installations
- in commercial buildings and multi-family housing.

 OXYTONE PANNEAU 2012 particularly meets the needs of modern buildings, where heat losses must be minimal.
- Principle of operation: closed in standby position, OXYTONE PANNEAU 2012 opens outwards by an electrical command in the event of a fire, providing the fresh air necessary for smoke exhaust operations.
- Indoors, the installation of a GFAP 007 or a GFAP grille offers the possibility of a homogeneous aesthetic design with VANTONÉ damper grilles used for the extraction of smoke and fumes.
- it is also possible to install OXYTONE PANNEAU 2012 in a curtain wall.
- OXYTONE PANNEAU 2012 is also qualified for natural smoke extraction.

DESCRIPTION

- The panel is outward-opening, using mechanical actuators released by a command via the 24V or 48V remote control.
- · Activation by power emission or power cut-off, 24 or 48 VDC.
- The panel is fitted with a handle for manual reset.
- The chassis features a frame in which 2 actuators articulate the panel. In addition to the actuators, the position contacts and the electric trip device are built into the frame and therefore invisible when the OXYTONE PANNEAU 2012 panel is closed.
- The frame and the panel use aluminium surrounds to ensure their perfect integration into all types of window frames, both on reveals and wall mounted.
- The panel is available with 3 different versions:
- standard = double glazing (hardened and laminated outside glass 4/10/33.2).
- optional thermal double glazing (Argon-filled 4/16/4 Climaplus).
 - optional insulated solid metal panel (2 aluminium
- sheets 20/10 + 20 mm polystyrene).
- · RAL paint is possible as an option on the chassis and the solid panel.
- · Supplied without seal covers, available as accessories (not mounted), to be cut to size.

DIMENSIONS (mm)



FREE AIR PASSAGE (dm²)

- The nominal dimensions W x H correspond to overall dimensions.
- Opening size = W x H + clearance required for mounting.
- Free air passage = (W-120) x (H-120) mm.

| Height | | Width W | | | | | | | | | | | |
|--------|------|---------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| H | 420 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
| 420 | 9 | 10.6 | 13.4 | 16.2 | 19 | 21.8 | 24.6 | 27.4 | 30.2 | 33 | 35.8 | 38.6 | 41.4 |
| 500 | 10.6 | 14.4 | 18.2 | 22 | 25.8 | 29.6 | 33.4 | 37.2 | 41 | 44.8 | 48.6 | 52.4 | 56.2 |
| 600 | 13.4 | 18.2 | 23 | 27.8 | 32.6 | 37.4 | 42.2 | 47 | 51.8 | 56.6 | 61.4 | 66.2 | 71 |
| 700 | 16.2 | 22 | 27.8 | 33.6 | 39.4 | 45.2 | 51 | 56.8 | 62.6 | 68.4 | 74.2 | 80 | 85.8 |
| 800 | 19 | 25.8 | 32.6 | 39.4 | 46.2 | 53 | 59.8 | 66.6 | 73.4 | 80.2 | 87 | 93.8 | 100.6 |
| 900 | 21.8 | 29.6 | 37.4 | 45.2 | 53 | 60.8 | 68.6 | 76.4 | 84.2 | 92 | 99.8 | 107.6 | 115.4 |
| 1000 | 24.6 | 33.4 | 42.2 | 51 | 59.8 | 68.6 | 77.4 | 86.2 | 95 | 103.8 | 112.6 | 121.4 | 130.2 |
| 1100 | 27.4 | 37.2 | 47 | 56.8 | 66.6 | 76.4 | 86.2 | 96 | 105.8 | 115.6 | 125.4 | 134.2 | 145 |
| 1200 | 30.2 | 41 | 51.8 | 62.6 | 73.4 | 84.2 | 95 | 105.8 | 116.6 | 127.4 | 138.2 | 149 | 159.8 |

INSULATION COEFFICIENT UW

- The thermal transmission coefficient to be taken into account for wall insulation calculations is dependent on the panel dimensions. A small panel offers a higher Uw than a large panel (impact of frame in relation to panel area).
- The aluminium surrounds used for the frame and panel are thermal break surrounds.
- The OXYTONE PANNEAU range is available with 3 different versions:
- standard = double glazing ((hardened and laminated outside glass 4/10/33.2 Ug = 3.03 W/m2.k).
- → Uw = 3.8 for 420 x 420 mm to 3.3 W/m2.K for 1600 x 1200 mm.
- optional thermal double glazing (Argon filled 4/16/4 Climaplus Ug = 1.1 W/m2.K).
- → Uw = 3.3 for 420 x 420 mm to 2 W/m2.K for 1600 x 1200 mm.
- optional insulated solid metal panel (2 aluminium sheets 20/10 + 20 mm polystyrene
- Ug = 1.49 W/m2.K).
- → Uw = 3.1 for 420 x 420 mm to 2.1 W/m2.K for 1600 x 1200 mm.



OXYTONE smoke exhaust air inlets

OXYTONE PANNEAU 2012 air inlet







Advantages

- · Insulated air inlet.
- · New: Invisible mechanism, integrated in frame.
- Ideal for air inlet dampers on outside walls.
- · Choice of RAL paint.
- Aesthetic GFAP 007 indoor grille - Identical to that used on the smoke exhaust damper.

Actuators and contacts integrated in frame

Trip device integrated into

DIMENSIONAL RANGE

- The standard range extends to:
- Width: 420 < W < 1600 mm with step of 5 mm and
- Height: 420 < H < 1200 mm with step of 5 mm. Beyond widths of 1200 mm the frame is equipped with two electromagnetic actuators to ensure the panel closes correctly.
- Other versions, e.g. with inward-opening panel: consult us.

INSTALLATION

- On outside wall, with an angle between 0 and 5° to the vertical.
- The structure must be able to bear the whole weight of the panel and hinges when it is fully opened.
- In a masonry wall, the panel and frame are installed on reveals as per the diagram and in respect of the DTU directives concerned:
- ensure the support is flat,
- ensure the frame is correctly aligned,
- Number of vertical anchor points:
- H < = 650 mm → 1 central attachment,
- H > 650 mm ⇒ 2 attachments at 250 mm from top and bottom,
- The air inlet can also be installed in a curtain wall (glazed façade).

In this case the unit is anchored using the tightening system specific to the curtain wall structure. Please consult us.

ACCESSORIES

GFAP 007 indoor grille

If the air inlet is installed on a masonry wall, a GFAP 007 indoor grille offers an aesthetic finish for the smoke extract damper. The GFAP 007 blade core is easily removed using the 007 clips.
Selection of GFAP 007 grille:
- X dimension of GFAP 007 = W - 50 mm.

- Y dimension of GFAP 007 = H 50 mm rounded up to nearest 25 mm.

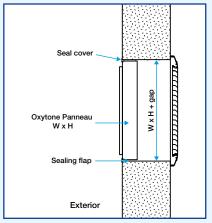
The inlet is surface-mounted on the wall.

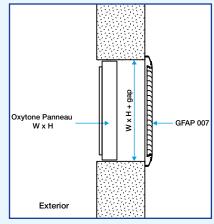
For more information on the GFAP 007 grille, see page

Mounting accessories

- 20 mm seal cover, price per linear metre, useful if the OXYTONE PANNEAU 2012 is installed flush with the wall.
- 78 x 20 mm sealing flap, price per linear metre, used to dress the lip.
- 3 anchoring kits for wood (8 screws), metal (8 screws) or concrete (8 screws + plugs).
- adaptation for installation on a curtain wall: please consult us.
- adaptation possible to connect two OXYTONE PANNEAU 2012 air inlets together: please consult US.

INSTALLATION PRINCIPLE IN MASONRY WALL





RANGE with choice of options (steps of 5 mm)

- Code 11044310 up to W = 1200 mm.
- Code 11044309 for W > 1200 mm.

AVAILABLE OPTIONS

| Description | Code |
|---|----------|
| FCU + DCU open and closed position contacts | OPT44315 |
| GLAZED PANEL 4/10/33.2 | OPT44317 |
| CLIMAPLUS GLAZED PANEL 4/16Ar/4 | OPT44318 |
| RAL paint for GLAZED PANEL | OPT44319 |
| Insulated sheet SOLID PANEL | OPT44320 |
| RAL paint for insulated sheet SOLID PANEL | OPT44321 |

ACCESSORIES

| Description | Code |
|---|----------|
| GFAP 007 (partition without mounting-frame) | 11045335 |
| Strip 780 x 22 mm (price per linear m) | 11044323 |
| 20 mm seal cover (price per linear m) | 11044324 |
| Wood anchoring kit | 11044326 |
| Metal anchoring kit | 11044327 |
| Concrete anchoring kit | 11044328 |
| FCU or DCU contact kit | 11044325 |



AIRONE smoke exhaust air inlet

Presentation of the AIRONE range of smoke exhaust air inlets







Compliance

- Compliant with NF-S-61937-8 concerning air inlets.
- IT246 (air passage)

Advantages

- Elegant, sober design.
- Thermal insulation as standard.
- Aesthetic GFAP 007 indoor terminal
 Identical to that used on the smoke exhaust damper.
- Ideal for air inlet dampers on outside walls.
- Choice of RAL colour.

Closed, in standby position

Open, in safety position

FIELD OF APPLICATION

- AIRONE is a remote-controlled, outward-opening casement reserved for air inlet functions. These air inlets are designed for natural and mechanical smoke exhaust installations in commercial buildings and multi-family housing.
- AIRONE particularly meets the needs of modern buildings, where heat losses must be minimal.
- Principle of operation: closed in standby position, AIRONE opens outward when it receives an electrical command due to a fire alarm, providing the fresh air necessary for smoke exhaust operations.
- Indoors, the installation of a GFAP 007 grille offers a harmonious finish with OPTONE damper grilles used for smoke extraction.

DESCRIPTION

- Opening: outward-opening, using oleo-pneumatic springs actuated by the 24V or 48V remote control.
- Activation by power emission or power cut-off, 24 or 48 VDC.
- Reset: manual, the casement is equipped with a handle.
- Frame: aluminium profiles for seamless integration in all type of joinery, in particular surface-mounted.
- Panel: insulated aluminium sandwich (metal sheet/ polystyrene/metal sheet).
- RAL paint: possible as option (standard: anodised aluminium).
- Optional open and closed position limit contacts: can be duplicated (additional contacts).

AIRONE OVERALL DIMENSIONS (mm) about the selection software Conceptor Smoke extraction W x H

FREE AIR PASSAGE (dm²)

- The nominal dimensions W x H correspond to the dimensions of the neck.
- Opening size = W x H + clearance required for mounting (+5 mm without mounting frame).
- Free air passage (dm²) = (W-59) x (H-59)/10000 C where:

W + 80

- C = 4.5 where H = 475
- C = 4.83 where $600 \le H \le 850$
- C = 5.88 where H > 850

| Height H | Width W | | | | | | | |
|----------|---------|------|------|------|-------|-------|-------|-------|
| neight n | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 |
| 475 | 12.8 | 18 | 23.2 | 28.4 | 33.6 | 38.8 | 44 | 49.2 |
| 600 | 17.7 | 24.4 | 31.2 | 38 | 44.7 | 51.5 | 58.2 | 65 |
| 725 | 22.9 | 31.2 | 39.5 | 47.8 | 56.2 | 64.58 | 72.8 | 81.1 |
| 850 | 28.1 | 38 | 47.8 | 57.7 | 67.6 | 77.5 | 87.4 | 97.3 |
| 975 | 32.2 | 43.7 | 55.1 | 66.6 | 78 | 89.5 | 100.9 | 112.4 |
| 1100 | 37.4 | 50.4 | 63.4 | 76.5 | 89.5 | 102.5 | 115.5 | 128.5 |
| 1225 | 42.6 | 57.2 | 71.8 | 86.4 | 100.9 | 115.5 | 130.1 | - |
| 1350 | 47.8 | 64 | 80.1 | 96.2 | 112.4 | 128.5 | 144.6 | - |

INSULATION COEFFICIENT UW

• The thermal transmission coefficient to be taken into account for wall insulation calculations is dependent on the casement dimensions. A small casement offers a higher Uw than a large one (impact of frame in relation to panel size).

| Uoight ⊔ | Width W | | | | | | | |
|----------|--|--|--|--|--|---|---|---|
| neight n | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 |
| 475 | 3.2 | 3.03 | 2.94 | 2.87 | 2.82 | 2.78 | 2.75 | 2.72 |
| 600 | 3.05 | 2.89 | 2.79 | 2.72 | 2.67 | 2.63 | 2.6 | 2.57 |
| 725 | 2.96 | 2.8 | 2.7 | 2.63 | 2.57 | 2.53 | 2.5 | 2.47 |
| 850 | 2.9 | 2.74 | 2.63 | 2.56 | 2.51 | 2.46 | 2.43 | 2.4 |
| 975 | 2.85 | 2.69 | 2.58 | 2.51 | 2.46 | 2.41 | 2.38 | 2.35 |
| 1100 | 2.81 | 2.65 | 2.55 | 2.47 | 2.42 | 2.37 | 2.34 | 2.31 |
| 1225 | 2.79 | 2.62 | 2.52 | 2.44 | 2.39 | 2.34 | 2.31 | - |
| 1350 | 2.76 | 2.6 | 2.49 | 2.42 | 2.36 | 2.32 | 2.28 | - |
| | 600 725 850 975 1100 1225 | 475 3.2 600 3.05 725 2.96 850 2.9 975 2.85 1100 2.81 1225 2.79 | 475 600 475 3.2 3.03 600 3.05 2.89 725 2.96 2.8 850 2.9 2.74 975 2.85 2.69 1100 2.81 2.65 1225 2.79 2.62 | 475 600 725 475 3.2 3.03 2.94 600 3.05 2.89 2.79 725 2.96 2.8 2.7 850 2.9 2.74 2.63 975 2.85 2.69 2.58 1100 2.81 2.65 2.55 1225 2.79 2.62 2.52 | Height H 475 600 725 850 475 3.2 3.03 2.94 2.87 600 3.05 2.89 2.79 2.72 725 2.96 2.8 2.7 2.63 850 2.9 2.74 2.63 2.56 975 2.85 2.69 2.58 2.51 1100 2.81 2.65 2.55 2.47 1225 2.79 2.62 2.52 2.44 | Height H 475 600 725 850 975 475 3.2 3.03 2.94 2.87 2.82 600 3.05 2.89 2.79 2.72 2.67 725 2.96 2.8 2.7 2.63 2.57 850 2.9 2.74 2.63 2.56 2.51 975 2.85 2.69 2.58 2.51 2.46 1100 2.81 2.65 2.55 2.47 2.42 1225 2.79 2.62 2.52 2.44 2.39 | Height H 475 600 725 850 975 1100 475 3.2 3.03 2.94 2.87 2.82 2.78 600 3.05 2.89 2.79 2.72 2.67 2.63 725 2.96 2.8 2.7 2.63 2.57 2.53 850 2.9 2.74 2.63 2.56 2.51 2.46 975 2.85 2.69 2.58 2.51 2.46 2.41 1100 2.81 2.65 2.55 2.47 2.42 2.37 1225 2.79 2.62 2.52 2.44 2.39 2.34 | Height H 475 600 725 850 975 1100 1225 475 3.2 3.03 2.94 2.87 2.82 2.78 2.75 600 3.05 2.89 2.79 2.72 2.67 2.63 2.6 725 2.96 2.8 2.7 2.63 2.57 2.53 2.5 850 2.9 2.74 2.63 2.56 2.51 2.46 2.43 975 2.85 2.69 2.58 2.51 2.46 2.41 2.38 1100 2.81 2.65 2.55 2.47 2.42 2.37 2.34 1225 2.79 2.62 2.52 2.44 2.39 2.34 2.31 |



AIRONE smoke exhaust air inlet

Presentation of the AIRONE range of smoke exhaust air inlets



Closed, interior view

RANGE OF DIMENSIONS

- The standard range offers:
- Width: $475 \le W \le 1350$ mm in increments of 5 mm,
- Height: $485 \le W \le 1350$ mm in increments of 5 mm.

INSTALLATION

- On outside walls, with an angle between 0 and 30° to the vertical.
- In a masonry wall, the panel and frame are installed on reveals as per the diagram and in respect of applicable DTU directives:
- ensure the support is flat,
- ensure the frame is correctly aligned,
- Number of vertical anchor points:
- H < = 650 mm → 1 central attachment
- H > 650 mm → 2 attachments at 250 mm from top and bottom
- The air inlet can also be installed in a curtain wall (glazed façade).

In this case the unit is anchored using the tightening system specific to the curtain wall structure. Contact us for more details.

ACCESSORIES

Mounting frame - 11044345 (same as oxytone lames):

Recommended for installation in concrete walls.

• Indoor aesthetic terminal GFAP 007 -11045335:

For installation on a masonry wall, a GFAP 007 indoor terminal offers a decorative finish for the smoke exhaust damper.

The GFAP 007 blade core is easily removed using the 007 clips.

Selecting the GFAP 007 terminal:

- X dimension of GFAP 007 = width of opening 50 mm,
- Y dimension of GFAP 007 = height of opening 50 mm rounded up to nearest 25 mm.

The inlet is surface-mounted on the wall.

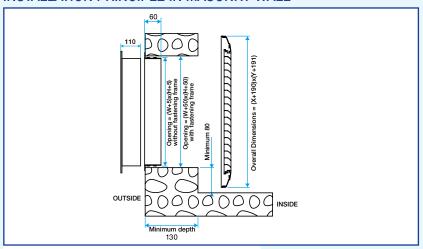
For more information on the GFAP 007, see the appropriate page.

- 3 anchoring kits for wood (8 screws), metal (8 screws) or concrete (8 screws + plugs).
- · Adapter kit for installation on doors.
- Additional set of position contacts.

RANGE OF DIMENSIONS

| | AIRONE air inlet - 11044370 | | | | | | | | |
|------|-----------------------------|--------------------|------|------|------|------|------|------|--|
| н | | W in mm (or slots) | | | | | | | |
| - | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 | |
| 475 | 817 | 854 | 890 | 926 | 962 | 998 | 1034 | 1070 | |
| 600 | 863 | 902 | 941 | 980 | 1019 | 1059 | 1098 | 1137 | |
| 725 | 908 | 950 | 992 | 1034 | 1077 | 1119 | 1161 | 1203 | |
| 850 | 953 | 998 | 1044 | 1089 | 1134 | 1179 | 1225 | 1270 | |
| 975 | 998 | 1047 | 1095 | 1143 | 1191 | 1240 | 1288 | 1336 | |
| 1100 | 1043 | 1095 | 1146 | 1197 | 1249 | 1300 | 1352 | 1403 | |
| 1225 | 1089 | 1143 | 1197 | 1252 | 1306 | 1361 | 1415 | - | |
| 1350 | 1134 | 1191 | 1249 | 1306 | 1364 | 1421 | 1478 | - | |

INSTALLATION PRINCIPLE IN MASONRY WALL



AVAILABLE OPTIONS

The code 11044370 AIRONE includes the 24V or 48V DC electromagnetic trip device, either in power emission version (VDS) or power cut-off (VM) - specify at the time of ordering.

| Description | Code |
|--------------------|-------|
| FCU1+DCU1 | 44335 |
| FCU2+DCU2 | 44336 |
| RAL paint (option) | 44377 |



N E W

Airone

Efficiency and guaranteed discretion



- New air inlet casement
- Thermal insulation as standard
- Airtight
- Extensive range of dimensions
- Discrete aspect, easy to install



OXYTONE smoke exhaust air inlets

OXYTONE LAMES 2013 air inlet with vanes



OXYTONE LAMES 2013 closed in standby position



OXYTONE LAMES 2013 open in safety position

Compliance

- Compliant with French Standard NF-S 61937-8.
- Air passage conforms to IT 246.
- CE marking (as per EN 12101-2) does not concern air inlet openings.

Advantages

- · Motorised reset.
- · Outdoor opening.
- GFA 007 indoor grille with removable core.
- Insulated version.
- · Kit for installation on doors.

FIELD OF APPLICATION

- OXYTONE LAMES 2013 is a remote-controlled air inlet mounted on the outside wall. The air inlets are designed for natural and mechanical smoke exhaust installations for commercial property and multifamily housing.
- On indoor walls, the installation of a GFAP 007 grille offers a decorative finish which matches VANTONE damper extraction grilles.

DESCRIPTION

- Mechanical cover featuring an aluminium frame (natural anodised finish) in which the horizontal blades are pivoted. The blades have the same finish as the frame. When closed, the blades cover the frame for a better seal.
- in the ISOLEF version, the blades are lined with 23 mm of M1 expanded polystyrene (K=1.55 W/m /°C) enclosed within a PVC box.
- The activation mechanism (driven by an oleopneumatic spring) is located behind the blades. Electrical wiring is done through a connection box.
- OXYTONE LAMES 2013 is equipped with a remote control power emission (3.5W) or power cut-off (1.6W) in 24V and 48V versions.
- Manual reset (standard) or 24V motorised reset (optional on factory or site installations).
- Optional open and closed position contacts are available, can be doubled up.

INSTALLATION

- The blades must remain horizontal.
- Intended for installation on an outside wall, OXYTONE LAMES 2013 is installed on a metal or concrete wall (the mounting-frame is recommended in this case).
- Possible to install OXYTONE LAMES 2013 on doors using an adaptation kit.

ACCESSORIES

Mounting-frame for OXYTONE LAMES 2013

- The mounting-frame is recommended when installing OXYTONE units on concrete walls. In galvanized 2 cm-thick steel, sealed using flexible pads or tightly screwed in. Delivered in kit form with assembly instructions.
- Aesthetic indoor grille GFAP 007 on wall.

In the event of installation on a masonry wall, a GFAP 007 indoor grille offers an aesthetic finish for the smoke extract damper. The blade core is easily removed using the 007 clips.

Selection of GFAP 007 grille:

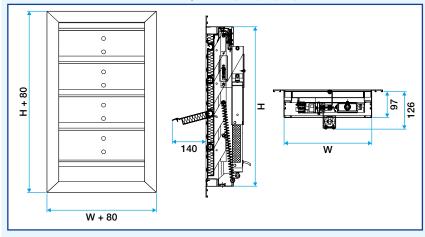
- X dimension of GFAP 007 = W reservation 50 mm.
- Y dimension of GFAP 007 = H reservation 50 mm rounding up to nearest 25 mm.

The inlet is surface-mounted on the wall.

For more information on the GFAP 007, see page 106.

DIMENSIONS (mm)

- Nominal dimensions: W x H
- \bullet Recess dimensions with sealed mounting-frame: (W+50) x (H+50).
- Recess dimensions without mounting-frame: (W+5) x (H+5).

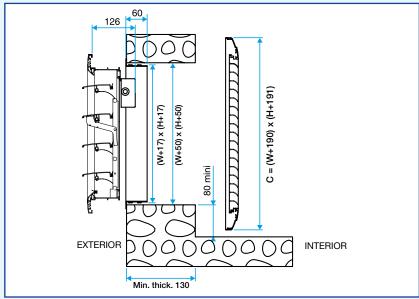


SIZE WITH GFAP 007 (mm)

- Nominal dimensions GFAP 007: X x Y.
- Selection with mounting-frame: X = W,
 - Y = H.
- Selection without mounting-frame: X = W 45 mm,

 $Y = H - 45 \,\text{mm}.$

Ensure that X and Y are multiples of 25 mm.

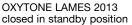




OXYTONE smoke exhaust air inlets

OXYTONE LAMES 2013 air inlet with vanes







Open in safety position



Advantages

- Wide range of dimensions.
- GFA 007 indoor grille with removable core.



Motorised reset option

It is possible to order OXYTONE LAMES 2012 with an electrical reset mechanism to facilitate maintenance and testing.

The system includes an electrically-operated cylinder to close the fins, it can only be fitted to products where the height \geq H 600 mm (minimum 4 fins).

Codification

- Code mounting-frame OXYTONE LAMES 2013: 11044345.
- Code OXYTONE LAMES 2013 ISOLATED: 11044343.
- Code OXYTONE LAMES 2013: 11044342. OXYTONE Motorisation has no effect on the code.

AVAILABLE OPTIONS

| Description | Code | | | | | | |
|--|----------|--|--|--|--|--|--|
| OXYTONE can be fitted with signalling contacts. Delivered fitted, these contacts must be ordered with the air inlet. | | | | | | | |
| Open and closed position contacts DCU1 + FCU1 | OPT44335 | | | | | | |
| Open and closed position contacts DCU2 + FCU2 | OPT44336 | | | | | | |
| Factory-mounted motorised reset (24V actuator) | OPT44337 | | | | | | |
| OXYTONE LAMES 2013 RAL paint | OPT44338 | | | | | | |
| OXYTONE LAMES 2013 INSULATED RAL paint | OPT44341 | | | | | | |

ACCESSORIES

| Description | Code |
|--|----------|
| Kit of additional FCU & DCU contacts | 11044346 |
| Motor kit - 24V OXYTONE LAMES 2013 | 11044354 |
| PSU unit - 1 x 24V motor - OXYTONE LAMES 2013 | 11044349 |
| PSU unit - 2 x 24V motor - OXYTONE LAMES 2013 | 11044350 |
| PSU unit - 4 x 24V motor - OXYTONE LAMES 2013 | 11044351 |
| PSU unit - 8 x 24V motor - OXYTONE LAMES 2013 | 11044348 |
| Door installation kit - OXYTONE LAMES 2013 | 11044353 |

RANGES AND FREE AIR PASSAGES (dm²) OXYTONE LAMES 2013 (manual reset)

| Height | No. of | | Width W (mm) | | | | | | | | | | |
|--------|--------|-------|--------------|-------|-------|-------|-------|--------|--------|--------|--|--|--|
| H (mm) | fins | 330 | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 | | | |
| 350 | 2 | - | 8.14 | 11.06 | 13.99 | 16.92 | 19.85 | 22.78 | 25.71 | 28.64 | | | |
| 475 | 3 | - | 12.68 | 17.01 | 21.34 | 25.67 | 29.99 | 34.32 | 38.65 | 42.98 | | | |
| 600 | 4 | 10.59 | 17.23 | 22.96 | 28.68 | 34.41 | 40.14 | 45.86 | 51.59 | 57.32 | | | |
| 725 | 5 | 13.52 | 21.78 | 28.91 | 36.03 | 43.16 | 50.28 | 57.41 | 64.53 | 71.66 | | | |
| 850 | 6 | 16.44 | 26.33 | 34.85 | 43.38 | 51.9 | 60.42 | 68.95 | 77.47 | 86 | | | |
| 975 | 7 | 19.37 | 30.88 | 40.8 | 50.72 | 60.65 | 70.57 | 80.49 | 90.41 | 100.34 | | | |
| 1100 | 8 | 22.29 | 35.43 | 46.75 | 58.07 | 69.39 | 80.71 | 92.03 | 103.35 | 114.68 | | | |
| 1225 | 9 | 25.22 | 39.98 | 52.7 | 65.42 | 78.14 | 90.86 | 103.58 | 116.3 | - | | | |
| 1350 | 10 | 28.15 | 44.52 | 58.64 | 72.76 | 86.88 | 101 | 115.12 | 129.24 | - | | | |

OXYTONE LAMES 2013 ISOLATED (manual reset)

| | | | | | ١, | | , | | | |
|--------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|
| Height | No. of | | | | W | idth W | (mm) | | | |
| H (mm) | fins | 330 | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 |
| 350 | 2 | - | 6.57 | 9 | 11.43 | 13.86 | 16.29 | 18.72 | 21.15 | 23.58 |
| 475 | 3 | - | 10.46 | 14.08 | 17.71 | 21.34 | 24.96 | 28.59 | 32.21 | 35.84 |
| 600 | 4 | 8.76 | 14.35 | 19.17 | 23.99 | 28.81 | 33.63 | 38.45 | 43.27 | 48.09 |
| 725 | 5 | 11.26 | 18.24 | 24.25 | 30.27 | 36.28 | 42.3 | 48.32 | 54.33 | 60.35 |
| 850 | 6 | 13.76 | 22.13 | 29.34 | 36.55 | 43.76 | 50.97 | 58.18 | 65.39 | 72.6 |
| 975 | 7 | 16.26 | 26.01 | 34.42 | 42.83 | 51.23 | 59.64 | 68.04 | 76.45 | 84.86 |
| 1100 | 8 | 18.77 | 29.9 | 39.5 | 49.11 | 58.71 | 68.31 | 77.91 | 87.51 | 97.11 |
| 1225 | 9 | 21.27 | 33.79 | 44.59 | 55.38 | 66.18 | 76.98 | 87.77 | 98.57 | - |
| 1350 | 10 | 23.77 | 37.68 | 49.67 | 61.66 | 73.65 | 85.65 | 97.64 | 109.63 | - |

OXYTONE LAMES 2013 (motorised reset)

| Height | No. of | | Width W (mm) | | | | | | | | |
|--------|--------|-------|--------------|-------|-------|-------|-------|--------|--------|--------|--|
| H (mm) | fins | 330 | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 | |
| 350 | 2 | - | - | - | - | - | - | - | - | - | |
| 475 | 3 | - | - | - | - | - | - | - | - | - | |
| 600 | 4 | 9 | 15.64 | 21.37 | 27.09 | 32.82 | 38.55 | 44.27 | 50 | 55.73 | |
| 725 | 5 | 11.93 | 20.19 | 27.32 | 34.44 | 41.57 | 48.69 | 55.82 | 62.94 | 70.07 | |
| 850 | 6 | 16.44 | 24.74 | 33.26 | 41.79 | 50.31 | 58.83 | 67.36 | 75.88 | 84.4 | |
| 975 | 7 | 19.37 | 29.29 | 39.21 | 49.13 | 59.05 | 68.98 | 78.9 | 88.82 | 98.74 | |
| 1100 | 8 | 22.29 | 33.84 | 45.16 | 56.48 | 67.8 | 79.12 | 90.44 | 101.76 | 113.08 | |
| 1225 | 9 | 25.22 | 38.38 | 51.1 | 63.82 | 76.54 | 89.26 | 101.98 | 114.7 | - | |
| 1350 | 10 | 28.15 | 42.93 | 57.05 | 71.17 | 85.29 | 99.41 | 113.53 | 127.65 | - | |

OXYTONE LAMES 2013 ISOLATED (motorised reset)

| Height | No. of | | Width W (mm) | | | | | | | | | |
|--------|--------|-------|--------------|-------|-------|-------|-------|-------|--------|-------|--|--|
| H (mm) | fins | 330 | 475 | 600 | 725 | 850 | 975 | 1100 | 1225 | 1350 | | |
| 350 | 2 | - | - | - | - | - | - | - | - | - | | |
| 475 | 3 | - | - | - | - | - | - | - | - | - | | |
| 600 | 4 | 7.07 | 12.66 | 17.48 | 22.3 | 27.12 | 31.94 | 36.76 | 41.58 | 46.4 | | |
| 725 | 5 | 9.57 | 16.55 | 22.56 | 28.58 | 34.6 | 40.61 | 46.63 | 52.64 | 58.66 | | |
| 850 | 6 | 12.07 | 20.44 | 27.65 | 34.86 | 42.07 | 49.28 | 56.49 | 63.7 | 70.91 | | |
| 975 | 7 | 14.58 | 24.33 | 32.73 | 41.14 | 49.54 | 57.95 | 66.36 | 74.76 | 83.17 | | |
| 1100 | 8 | 17.08 | 28.22 | 37.82 | 47.42 | 57.02 | 66.62 | 76.22 | 85.82 | 95.42 | | |
| 1225 | 9 | 19.58 | 32.1 | 42.9 | 53.7 | 64.49 | 75.29 | 86.08 | 96.88 | - | | |
| 1350 | 10 | 22.08 | 35.99 | 47.98 | 59.98 | 71.97 | 83.96 | 95.95 | 107.94 | - | | |



des Fire Protection Compulsor n°9

Regulations concerning smoke exhaust dampers

The regulatory environment for smoke exhaust dampers is changing

The European Union has issued the Construction Products Regulation (305/2011).

Today, it is the turn of smoke exhaust dampers to be subject to CE marking. This new regulation will disrupt the habits of stakeholders in the fire protection industry. In particular these changes concern:

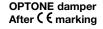
- New methods for testing fire resistance and for classifying equipment,
- · New European vocabulary for fire resistances,
- New CE certificate, in addition to existing documents (fire resistance classification reports, official report NF-S-61937-10 and NF certificate).
- Performance declarations compliant with regulation 305-2011.

BUT IN TECHNICAL TERMS. WHAT CHANGES AFFECT SMOKE EXHAUST DAMPERS?

The smoke exhaust damper has had to evolve to satisfy new European regulations, an illustration of the best-selling gate type damper in France:

VANTONE damper Before (€ marking







Changes in regulations are extensive and impose the full re-qualification of all the ranges:

- test conducted on a European duct compliant with EN1366-8 and/or -9,
- test performed under negative pressure, a damper is placed in the oven to test its ability to remain open when hot, another is above the oven, closed, to demonstrate its ability to act as a fire barrier.
- leakage rate minimised to 200 m³/h/m² under the test pressure, either 1000 or 1500 Pa.

CF 1h30 ⇒ E I 90 S (Ved - i ← o) – 1000 Pa - AA - multi - C300

EXPLANATION OF THE NEW EUROPEAN FIRE PROTECTION CLASSIFICATIONS

- E = Integrity against fire (corresponds to former Fire Retardant),
- I = Insulation (El corresponds to our former Fire Damper),
- 90 = duration in minutes, or 120 minutes,
- S = the leakage rate is stricter at 200 m3/h maximum per m², under test pressure, generally 1000 or 1500 Pa. The S criteria is obligatory in France.
- i o = the damper is tested for internal and external fires, it satisfies restrictions for use as a low position air inlet and high-position smoke exhaust damper,
- Ved = the damper is tested on a vertical duct,
- 1000 Pa: negative pressure applied to the damper during the fire resistance test: the damper is remote-controlled,
- multi as in multi-compartment: the duct is a collective one. Note that the "multi" version is also qualified for use as a "single" duct,
- C300 = damper reserved for use in a smoke exhaust system. Succeeded a 300-cycle endurance test prior to testing.

AND WHAT WILL BECOME OF STANDARD NF S 61937-10?

Some time ago, the commission responsible for fire safety standards NF-S-61930 to 40 undertook to revise standard NF-S-61937 in preparation for the arrival of CE marking on each Actuated Safety Device (DAS).

In France, all smoke exhaust dampers must also hold an official report in compliance with NF-S-61937-10 (association of dampers in a fire safety system) to guarantee their suitability for use in the fire safety system. The NF certificate issued by AFNOR CERTIFICATION is also third party proof.

HOW TO SELECT A CE MARKED SMOKE EXHAUST DAMPER €?

- 1 Ensure the presence of the certificate of CE compliance as per EN 12101-8.
- 2 Ensure that the damper service pressure does not exceed the test pressure indicated on the certificate (in accordance with the decision of 14 March 2011, article 16-d-4 "Only dampers with EIS classification may be used. The service pressure must not exceed the test pressure.").
- 3 Ensure that the fire resistance classification for the smoke exhaust damper (El 90 S or El 120 S) corresponds to the intended use. Particular attention should be paid to installation. For example, a CE smoke exhaust damper is always connected to a smoke exhaust duct compliant with EN 1366-8 and/or -9 in dimensional terms.



Regulations concerning smoke exhaust dampers

TABLE OF EQUIVALENCES FOR SMOKE EXHAUST DAMPERS "BEFORE / AFTER CE"

To help you select your new CE-compliant smoke exhaust damper, we have created this table to indicate correspondences between old and

| French dampers | (€ Dampers | European vocabulary | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|
| VANTONE PF and CF | OPTONE "+Grille" OPTONE single flap OPTONE double-flap | OPTONE "+Grille" El 90 S - 1000 Pa OPTONE "Classic" El 90 S - 1000 Pa El 120 S - 1000 Pa | | | | | | | | |
| VANTONE M | New OPTONE gate type damper: OPTONE "+Grille" model offering major time savings on installation and operation. OPTONE "Classic" model, housing a specific aesthetic grill, type GFE. | | | | | | | | | |
| - | VANTONE M GGH or GFA 007 in the colour of your choice. | | | | | | | | | |
| VRFI-DES | New PLAFONE tunnel damper. | PLAFONE EI 120 S - 1500 Pa | | | | | | | | |
| | 64) | OPTONE "+Grille" El 90 S - 1000 Pa OPTONE "Classic" | | | | | | | | |
| GCF | Guillotine smoke exhaust dampers are no longer produced, use an OPTONE double-flap damper to limit travel in the duct. | El 90 S - 1000 Pa El 120 S - 1000 Pa | | | | | | | | |
| | The GDF transfer damper is not a smoke exhaust damper as defined by the standard EN 12101-8, so it has not been modified. It's been | E60 | | | | | | | | |
| GDF | tested according to EN1634-1. | | | | | | | | | |



N E W

OPTONE.T "Classic":

Made to measure for C€ regulations!



- Custom dampers
- Full range of motor-driven dampers (single-flap, double-flap)
- Free air passage: up to 104 dm²







Presentation of the new OPTONE smoke exhaust damper range New







Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1053 and 1055.
- El 90 (ved-i ← o) S 1000 Pa - AA multi.
- El 120 (ved-i ← o) S 1000 Pa - AA multi.
- H > 1000 = EI 60 S.
- Certified.

Advantages

- Time savings on installation of OPTONE "+Grille" model.
- Easy wiring.
- Both 1 & 2 flap versions can be motorised.
- Custom-built OPTONE Classic.

INTRODUCTION

Inspired by its cousin OPTONE.H on sale since early 2012, the new OPTONE gate type smoke exhaust damper will replace all VANTONE dampers very quickly due to the CE marking requirement as per standard EN 12101-8.

The new range of OPTONE dampers present a new and exclusive design:

OPTONE "+Grille"

This patented innovation satisfies most installation requirements and saves time by avoiding the installation of the separate grill.

To satisfy certain aesthetic needs, there is also the OPTONÉ "Classic" range, to which GFA 007, GFE or GGH type grills may be attached.

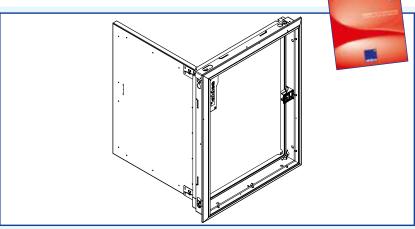
QUALIFICATION

- Compliant with CE marking as per EN 12101-8: Certificate 1812-CPR-1053 and certificate 1812-CPR-
- Fire resistance classification according to EN 1366-10

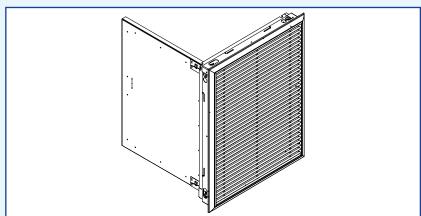
 - 1. OPTONE "+Grille": El 90 (ved-i ⇔o) S 1000 Pa AA multi, compliant with § 7.2.4 of EN 13501-4, qualified on Promatect L500 smoke exhaust duct
 - and on ducts compliant with EN 1366-9 made of the same material and with the same density.
 - 2.a OPTONE "Classic":
 - El 120 (ved-i⇔o) S 1000 Pa AA multi, compliant with § 7.2.4 of EN 13501-4, qualified on Promatect L500 smoke exhaust duct and on ducts compliant with EN 1366-9 made of the same material and with the same density.
 - 2.b OPTONE "Classic" for H > 1000 mm: El 60 (ved-i⇔o) S - 1000 Pa - AA multi, compliant with § 7.2.4 of EN 13501-4, qualified on Promatect L500 smoke exhaust duct and on ducts compliant with EN 1366-9 made of the same material and with the same density.
- Compliant with NF S 61937-10,
- Leakage rate: the OPTONE damper presents a very low leakage rate: under 1000 Pa, the rate is < 200 m³/h per m² of flap surface, or less than 40 m³/h under 1000 Pa for a 400 x 650 mm damper.
- Pressure loss lower than VANTONE dampers with equivalent dimensions.

Our dampers are qualified up to fire rating El 120 S on the following smoke exhaust ducts (and on EN 1366-9-compliant products of the same material and the same density):

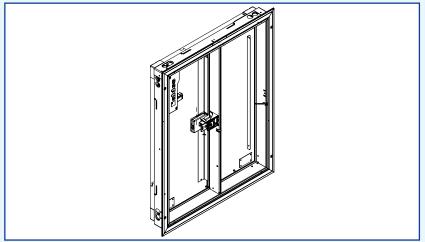
- PROMATECT L500
- TECNIVER L
- GEOFLAM / GEOFLAM Light
- FXTHAMAT P
- GLASROC F V500
- CAROPLATRE + GLASROC
- DESENFIRE
- STAFF PUR



OPTONE "+Grille" single-flap - open with finned-core removed



OPTONE "+Grille" single-flap - open with finned-core



OPTONE "Classic" double-flap - closed







Presentation of the new OPTONE smoke exhaust damper range New









Advantages

- Simplicity: Nominal dimensions = embedding dimension.
- Reversible mounting-frame top/bottom.
- Same mounting-frame for all OPTONE models.
- Built-in cable passages.

DESCRIPTION

- · Composition of the OPTONE smoke exhaust damper:
- aluminium frame built using internally-crimped profiles to offer a first-rate finish,
- flap made of refractory material,
- electrical control mechanism protected within a box.
- The damper is supplied with essential accessories:
- 20/10 mm steel mounting frame
- freely-selectable aluminium terminal:
- on the OPTONE "+Grille" model, the grille frame is bonded with the damper, the removable blade core is attached with invisible Zamak clips (same as OPTONE.H),
- GFA 007 grille to be fixed on front side (for OPTONE "Classic"),
- · GFE or GGH grille to be fixed in front (for OPTONE "Classic").
- Nominal W x H dimensions of damper = dimensions of the opening required for the mounting-frame, which is fixed without adhesive mortar.
- Free air passage (dm²) on the damper depends on the W and H (mm) dimensions and the number of

Single-flap (1V) = $((W-57) \times (H-57) -14147) / 10000$ Double-flap $(2V) = ((W-76) \times (H-57) -14147) / 10000$

The pressure loss for the damper alone (with grille) are given by: Exhaust: ∆p=2.083 .√(free_air_passage/WxH).(Q/free_

air_passage)2 Air supply: ∆p=2.00 .√(free_air_passage/WxH).(Q/

free_air_passage)2

(Δp in Pa, free_air_passage in m2, Q in m3.s-1, W/H

- · Locking system positioned on flap: greater free air passage and reduced pressure losses.
- · Airtight seal when cold is provided by 2 elastomer gaskets clipped into the frame grooves:
- the first seals the frame / flap junction,
- the second seals the frame / duct junction.
- · Airtight seal when hot is provided by 2 intumescent seals fixed around the outside of the damper facing the vane field and the duct sleeve.
- · Electric wiring can be passed through a corner near the control box.
- · Locking system featuring a trip device attached to the flap which slots into a bolt lock embedded in the frame. The patented electromagnetic trip device is self-resetting, enabling you to close the flap with iust one hand.
- · Scalable connection box designed to facilitate electrical connections:
- automatic terminals for the remote control and reset motor,
- removable signal contacts,
- large space to accommodate Fire safety control system modules,
- pre-installed electrical components to equip the reset motor later.

SIZE RANGES AND FREE AIR PASSAGES (dm²)

OPTONE "+Grille" - Single-flap code 11044410. OPTONE "Classic" - Double-flap code 11044420 / OPTONE "Classic" - 2H.single flap code 11044430.

| Free air passage | (dm²) | W = | width o | of reser | | or mou | • | rame fi | xed wit | hout |
|----------------------|-------|------|---------|----------|------|--------|------|---------|---------|------|
| | | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
| | 300 | 4.5 | 5.7 | 6.9 | 8.1 | 9.4 | 10.6 | 11.8 | 13.0 | 14.2 |
| | 350 | 5.7 | 7.2 | 8.6 | 10.1 | 11.6 | 13.0 | 14.5 | 16.0 | 17.4 |
| | 400 | 6.9 | 8.6 | 10.4 | 12.1 | 13.8 | 15.5 | 17.2 | 18.9 | 20.6 |
| | 450 | 8.1 | 10.1 | 12.1 | 14.0 | 16.0 | 18.0 | 19.9 | 21.9 | 23.9 |
| H = height of | 500 | 9.4 | 11.6 | 13.8 | 16.0 | 18.2 | 20.4 | 22.6 | 24.9 | 27.1 |
| reservation for | 550 | 10.6 | 13.0 | 15.5 | 18.0 | 20.4 | 22.9 | 25.4 | 27.8 | 30.3 |
| mounting frame fixed | 600 | 11.8 | 14.5 | 17.2 | 19.9 | 22.6 | 25.4 | 28.1 | 30.8 | 33.5 |
| without adhesive | 650 | 13.0 | 16.0 | 18.9 | 21.9 | 24.9 | 27.8 | 30.8 | 33.8 | 36.7 |
| mortar | 700 | 14.2 | 17.4 | 20.6 | 23.9 | 27.1 | 30.3 | 33.5 | 36.7 | 39.9 |
| | 750 | 15.4 | 18.9 | 22.4 | 25.8 | 29.3 | 32.8 | 36.2 | 39.7 | 43.1 |
| | 800 | 16.6 | 20.4 | 24.1 | 27.8 | 31.5 | 35.2 | 38.9 | 42.6 | 46.4 |
| | 850 | 17.9 | 21.8 | 25.8 | 29.8 | 33.7 | 37.7 | 41.6 | 45.6 | 49.6 |
| | 900 | 19.1 | 23.3 | 27.5 | 31.7 | 35.9 | 40.1 | 44.4 | 48.6 | 52.8 |

OPTONE "+Grille" double-flap code 11044411. OPTONE "Classic" double-flap code 11044421 / OPTONE "Classic" 2H. double-flap code 11044431.

| Eroo air nassaga | Free air passage (dm²) | W = v | vidth c | f rese | rvation | for m | ountin | g-fram | e fixe | d with | out adl | nesive | mortar |
|-------------------------|------------------------|-------|---------|--------|---------|-------|--------|--------|--------|--------|---------|--------|--------|
| Tree all passage | (unit) | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| | 300 | 7,7 | 8,9 | 10,1 | 11,3 | 12,5 | 13,7 | 15,0 | 16,2 | 17,4 | 18,6 | 19,8 | 21,0 |
| | 350 | 9,5 | 11,0 | 12,5 | 13,9 | 15,4 | 16,9 | 18,3 | 19,8 | 21,3 | 22,7 | 24,2 | 25,7 |
| | 400 | 11,4 | 13,1 | 14,8 | 16,6 | 18,3 | 20,0 | 21,7 | 23,4 | 25,1 | 26,8 | 28,6 | 30,3 |
| | 450 | 13,3 | 15,2 | 17,2 | 19,2 | 21,1 | 23,1 | 25,1 | 27,0 | 29,0 | 31,0 | 32,9 | 34,9 |
| | 500 | 15,2 | 17,4 | 19,6 | 21,8 | 24,0 | 26,2 | 28,4 | 30,7 | 32,9 | 35,1 | 37,3 | 39,5 |
| | 550 | 17,0 | 19,5 | 22,0 | 24,4 | 26,9 | 29,3 | 31,8 | 34,3 | 36,7 | 39,2 | 41,7 | 44,1 |
| | 600 | 18,9 | 21,6 | 24,3 | 27,0 | 29,8 | 32,5 | 35,2 | 37,9 | 40,6 | 43,3 | 46,0 | 48,8 |
| H = height of | 650 | 20,8 | 23,7 | 26,7 | 29,7 | 32,6 | 35,6 | 38,6 | 41,5 | 44,5 | 47,4 | 50,4 | 53,4 |
| reservation for | 700 | 22,6 | 25,8 | 29,1 | 32,3 | 35,5 | 38,7 | 41,9 | 45,1 | 48,4 | 51,6 | 54,8 | 58,0 |
| mounting frame fixed | 750 | 24,5 | 28,0 | 31,4 | 34,9 | 38,4 | 41,8 | 45,3 | 48,8 | 52,2 | 55,7 | 59,2 | 62,6 |
| without adhesive | 800 | 26,4 | 30,1 | 33,8 | 37,5 | 41,2 | 44,9 | 48,7 | 52,4 | 56,1 | 59,8 | 63,5 | 67,2 |
| mortar | 850 | 28,2 | 32,2 | 36,2 | 40,1 | 44,1 | 48,1 | 52,0 | 56,0 | 60,0 | 63,9 | 67,9 | 71,9 |
| | 900 | 30,1 | 34,3 | 38,5 | 42,8 | 47,0 | 51,2 | 55,4 | 59,6 | 63,8 | 68,0 | 72,3 | 76,5 |
| | 950 | 32,0 | 36,4 | 40,9 | 45,4 | 49,8 | 54,3 | 58,8 | 63,2 | 67,7 | 72,2 | 76,6 | 81,1 |
| | 1000 | 33,9 | 38,6 | 43,3 | 48,0 | 52,7 | 57,4 | 62,1 | 66,9 | 71,6 | 76,3 | 81,0 | 85,7 |
| | 1050 | 35,7 | 40,7 | 45,7 | 50,6 | 55,6 | 60,5 | 65,5 | 70,5 | 75,4 | 80,4 | 85,4 | 90,3 |
| | 1100 | 37,6 | 42,8 | 48,0 | 53,2 | 58,5 | 63,7 | 68,9 | 74,1 | 79,3 | 84,5 | 89,7 | 95,0 |
| | 1150 | 39,5 | 44,9 | 50,4 | 55,9 | 61,3 | 66,8 | 72,3 | 77,7 | 83,2 | 88,6 | 94,1 | 99,6 |
| | 1200 | 41,3 | 47,0 | 52,8 | 58,5 | 64,2 | 69,9 | 75,6 | 81,3 | 87,1 | 92,8 | 98,5 | 104,2 |

For heights H > 1000, the damper only exists in the "Classic" version and is qualified El 60 (ved-i⇔o) S 1000 Pa.

Footprint incompatible with LOCKTONE reset motor.

The flap may feature a galvanised steel trim to offer uniform aesthetics and protect the wiring from the public and prevent vandalism. The trim may be painted with the RAL colour of your choice.

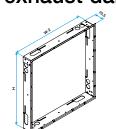
The OPTONE «+Grille» core can be locked using a 5x5 mm clip compatible with a fireman's standard square socket.





Presentation of mounting-frame for OPTONE smoke exhaust damper

New



Compliance

 The mounting-frame is mandatory to respect the fire resistance classification.

Advantages

- Simplicity: Nominal dimensions = embedding dimension.
- Reversible mounting-frame top/bottom.
- · Same mounting-frame for all **OPTONE** models.
- Built-in cable passages.

INSTALLATION

The mounting-frame is an indispensable accessory that ensures the smoke exhaust damper is installed correctly. It not only offers a good base for the installation work, it enable the damper to be mounted and removed easily throughout the life of the building.

The OPTONE mounting-frame is reversible, so ensure the width and height dimensions are correctly respected.

The same mounting-frame can be used for both the OPTONE "+Grille" model and the OPTONE "Classic" model, and also for single-flap or double-flap versions. The mounting-frame is selected simply on the basis of the nominal width x height dimensions.

The OPTONE mounting-frame is designed to be fixed by screws or using mortar.

- To seal in place using mortar, unfold the four anchor tabs before positioning the mounting-frame in the
- To attach with screws, use the holes other than any marked a or b.

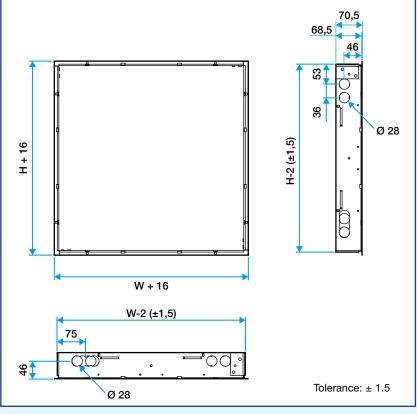
The OPTONE smoke exhaust damper requires the passage of electric cables, so the instructions on the label should be respected.

This label is affixed to each mounting-frame.

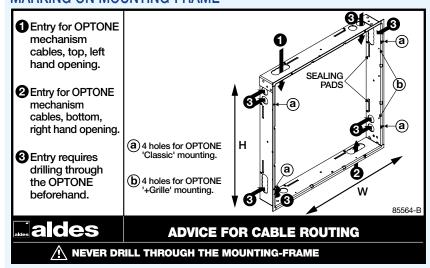
RANGE

| Description | Code |
|-----------------------------|----------|
| OPTONE mounting-frame W x H | 11044406 |

DIMENSIONS OF MOUNTING FRAME (mm)



MARKING ON MOUNTING-FRAME













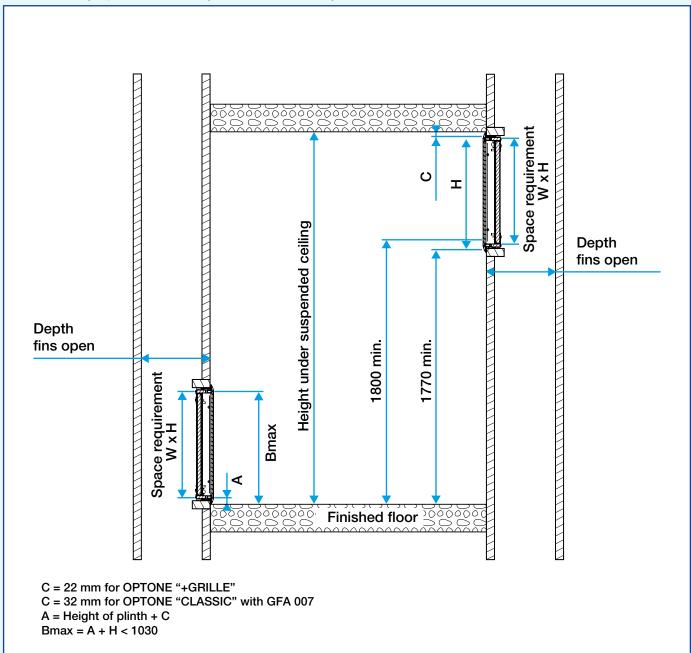




Advantages

 Simplicity: Nominal dimensions = embedding dimension.

For the air passage for the high position damper to be at least 1.80 m from the ground in accordance with standard IT 246 for ceilings \leq 2700 mm in height, position the mounting-frame at a minimum height of 1.77m.



The fitting of the mounting-frame into the duct support must conform to CE certification and the classification reports available via www.aldes.fr.







New OPTONE "+Grille" smoke damper





OPTONE "+Grille" without finned-core



OPTONE "+Grille" with finned-core



Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1053.
- El 90 (ved-i ← o) S 1000 Pa - AA multi.
- El 60 S for H > 1000.

Advantages

- Simplicity: Nominal dimensions = embedding dimension.
- Reversible mounting-frame top/bottom.
- Same mounting-frame for all OPTONE models.
- · Built-in cable passages.
- · All dampers can be motorised.
- New feature: core locking clip.

INSTALLATION

For which installation?

- Qualified on a Promatect L500 smoke exhaust duct and on ducts compliant with EN 1366-9 of the same material and same density.
- The "multi-compartment" smoke exhaust dampers are suitable for "single-compartment" applications.
- The fire classification stipulates the service pressure: the damper must not be subjected to pressures > -1000 Pa.
- Fire direction: like all smoke exhaust dampers, respect fire inside the smoke exhaust duct (when the damper is closed).

How?

- The CONCEPTOR DESENFUMAGE smoke damper selection software may help you to define the embedding dimensions for the mounting-frame so as to comply with Technical Instruction 246 (IT 246). The detailed installation instructions will be of great help to ensure correct installation of the dampers on your site.
- The nominal W x H dimensions of the damper correspond to the dimensions of the reservation required to embed the mounting-frame, without travel. To install a mortar-sealed mounting-frame, add the desired thickness of the mortar to the W x H dimensions.
- The OPTONE damper is reversible:
 - box on upper left = cable passage on upper left + left opening for single flap versions,
 - box on lower right = cable passage on lower right
 + right opening for single flap versions.

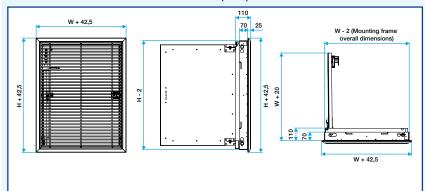
What fixing method to use?

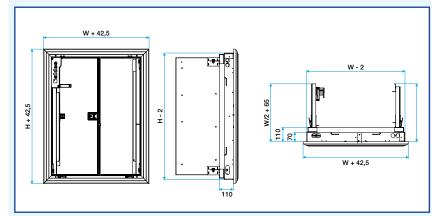
- Embedded in a vertical smoke exhaust duct.
- The mounting-frame is fixed in a duct sleeve with a minimum length of 110 mm, attached with 8 VBA screws Ø 5 x 70 mm (not supplied).
- The damper is fixed in place using four self-tapping screws supplied.
- The screws are driven into the lugs on the aluminium frame, which purposely buckle under the force applied.

RANGE

| Désignation | Code | EI S |
|---|----------|------|
| OPTONE "+ Grille" 1 flap | 11044410 | 90 |
| OPTONE "+ Grille" 2 flaps | 11044411 | 90 |
| LOCKTONE motor kit (to power the reset function on OPTONE single-flap and double-flap units) | 11044398 | - |
| BAG OF 10 LOCKING CLIPS (used to lock the vane core on OPTONE «+Grille» units) | 11044415 | - |
| Kit ENJOLIVEUR 1 flap | 11144404 | - |
| Kit ENJOLIVEUR 2 flaps | 11144405 | - |

OPTONE "+GRILLE" DIMENSIONS (mm)







Locking pin for grille





New OPTONE "Classic" smoke damper





OPTONE "Classic"



OPTONE "Classic" fitted with GFA 007 grille

Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1055.
- El 90 (ved-i ← o) S
 1000 Pa AA multi.
- El 120 (ved-i ← o) S
 1000 Pa AA multi.
- El 60 S for H > 1000.

Advantages

- Simplicity: Nominal dimensions = embedding dimension.
- Reversible mounting-frame top/bottom.
- Same mounting-frame for all OPTONE models.
- · Built-in cable passages.
- · All dampers can be motorised.
- New feature, damper with 5 mm increments in W/H dimensions for refurbishment.

INSTALLATION

For which installation?

- Qualified on a Promatect L500 smoke exhaust duct and on ducts compliant with EN 1366-9 of the same material and same density.
- The "multi-compartment" smoke exhaust dampers are suitable for "single-compartment" applications.
- The fire classification stipulates the service pressure: the damper must not be subjected to pressures > -1000 Pa.
- Fire direction: like all smoke exhaust dampers, respect fire inside the smoke exhaust duct (when the damper is closed).

How?

- The CONCEPTOR DESENFUMAGE smoke damper selection software may help you to define the embedding dimensions for the mounting-frame so as to comply with Technical Instruction 246 (IT 246). The detailed installation instructions will be of great help to ensure correct installation of the dampers on your site.
- The nominal W x H dimensions of the damper correspond to the dimensions of the reservation required to embed the mounting-frame, without travel. To install a mortar-sealed mounting-frame, add the desired thickness of the mortar to the W x H dimensions.
- The OPTONE damper is reversible:
- box on upper left = cable passage on upper left + left opening for single flap versions,
- box on lower right = cable passage on lower right + right opening for single flap versions.

What fixing method to use?

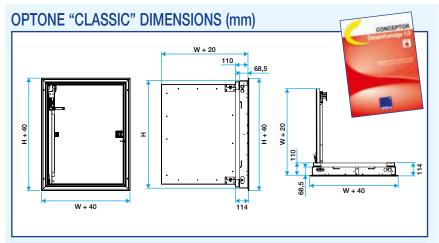
- Embedded in a vertical smoke exhaust duct.
- The mounting-frame is fixed in a duct sleeve with a minimum length of 110 mm, attached with 8 VBA screws Ø 5 x 70 mm (not supplied).
- The damper is fixed in place using four self-tapping screws supplied.
- Fixed on the front face using the drilled holes in the mounting-frame.

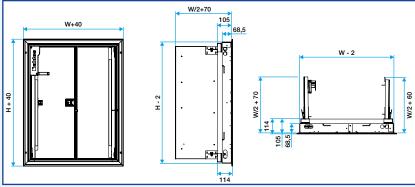
DESCRIPTION OF OPTONE GFA 007

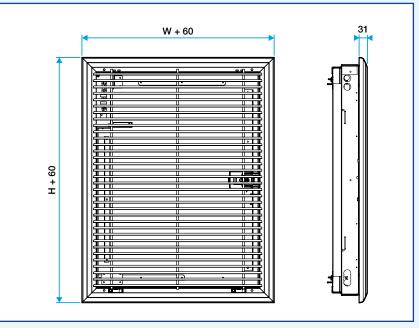
- The OPTONE "Classic" damper can be fitted with a GFA 007 grill that has all the same characteristics as the GFA 007 on the old VANTONE dampers.
- Code 11044408 GFA 007 OPTONE "Classic" can be fixed to either single-flap or double-flap dampers using the 4 inserts located on the front of the OPTONE damper.

RANGE

| Description | Code | EI S |
|---|----------|------|
| OPTONE "Classic" 1 flap | 11044420 | 90 |
| OPTONE "Classic" 2 flaps | 11044421 | 90 |
| OPTONE "Classic" 2 H/1 flap | 11044430 | 120 |
| OPTONE "Classic" 2 H/2 flaps | 11044431 | 120 |
| GFA 007 OPTONE T 1 flap-2 flaps | 11044408 | - |
| LOCKTONE motor kit (to power the reset function on OPTONE single-flap and double-flap units). | 11044398 | - |
| Kit ENJOLIVEUR 1 flap | 11144404 | - |
| Kit ENJOLIVEUR 2 flaps | 11144405 | - |









New LOCKTONE reset motor for OPTONE dampers





Advantages

- Fits to all OPTONE 1 & 2 flap dampers.
- · Simple to install.
- · Resets in less than 30 s.
- Facilitates regulatory inspections.

INTRODUCTION

In accordance with the new European regulations, Aldes has developed a new range of OPTONE CE gated dampers, replacing the VANTONE range.

For the motorised reset version, ALDES has continued with the principle of upgradeability already employed successfully with the ISONE dampers: the OPTONE dampers can be fitted with the new LOCKTONE reset motor at any time.

WARNING

The smallest OPTONES will be incompatible with the LOCKTONE motor:

(**NOTE**: these dimensions do not exist for VANTONE-M models).

OPTONE 1-flap 'CLASSIC' or '+GRILLE'

| | | | | | 1 | Nidth V | / | | | | | |
|----------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|--|--|
| | | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | | |
| | 300 | No | No | No | No | No | No | No | No | No | | |
| | 350 | No | No | No | No | No | No | No | No | No | | |
| | 400 | No | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 450 | No | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 500 | No | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 550 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| Height H | 600 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 650 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 700 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 750 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 800 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 850 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |
| | 900 | OK | OK | OK | OK | OK | OK | OK | OK | OK | | |

OPTONE 2-flap 'CLASSIC' or '+GRILLE'

| | | | | | | | Wid | th W | | | | | |
|----------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
| | | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| | 300 | No | No | No | No | No | No |
| | 350 | No | No | No | No | No | No |
| | 400 | No | No | No | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 450 | No | No | No | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 500 | No | No | No | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 550 | No | No | No | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 600 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 650 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 700 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| Height H | 750 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 800 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 850 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 900 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 950 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 1000 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 1050 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 1100 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 1150 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| | 1200 | No | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |

Note: The OPTONE.H model, designed for residential buildings for 3^{re} &t 4^{th} families, with its specific terminal, cannot be used with the LOCKTONE motor.

aldes

LOCKTONE reset motor

New LOCKTONE reset motor for OPTONE dampers





Advantages

- Fits to all OPTONE 1 & 2 flaps dampers.
- · Simple to install.
- · Resets in less than 30 s.
- Facilitates regulatory. inspections.

PRESENTATION

Fitted to the gate, LOCKTONE has no impact on the airflow passage nor on pressure drop levels.

LOCKTONE is available as:

- 1. An option for the OPTONE damper: the motor is fitted and connected to the damper in the factory,
- As an accessory kit: the motor is to be installed on-site, simple as the OPTONE dampers are designed with this in mind, integrating, as standard, a drilled bracket and suitable electrical cabling.

The fitting of the LOCKTONE has been simplified and can be completed in just a couple of minutes.

INSTALLING THE KIT

Installation of the motor (1 min)

- Position the two metallic lugs in the two slots in the bracket, below the trigger.
- 2. Tighten the 2 screws (supplied).

Fit the ribbon winder (20 seconds).

- The motor feeds out a wound ribbon fitted with a hook.
- 2. For OPTONE 1-flap models, unwind the ribbon and attach the hook to the hole in the aluminium frame by turning it a quarter of a turn.
- 3. for OPTONE 2-flap models, attach the roller in the intermediate riser before unwinding the ribbon and attaching the ring to the 'slave' flap.

Electrical connections (1 min).

- 1. The LOCKTONE is fitted with a quick-fit connector.
- 2. On the damper, open the trigger unit housing to identify the connector position.
- Plug the supplied connector into the two green and yellow wires (already stripped), connect it to the motor and position them in free space.
- 4. Repeat the operation for the principle unit.
- 5. Connect the power supply cables to the main box.
- 6. Close the covers.

TECHNICAL CHARACTERISTICS

- LOCKTONE option Code = OPT44398.
- LOCKTONE kit Code = 11044398 for OPTONE 1 & 2-flaps.
- 24 to 48V DC and AC.
- Max. current = 1.9 A under 24V; 1.1 A under 48 V.
- Response time < 30 s.
- Automatic stop at end of cycle, 5 seconds pause between two cycles.
- Operating temperatures: 0 to +50°C.
- Weight = 1.4 kg.
- No specific maintenance required.
- Operating cycles: 300, validated by NF certification.
- Reminder: power supply V Low Voltage (Safety) (TBTS).













Aesthetic GFA 007 grille





Exclusive!

 It is possible to fit a filter to prevent dust entering via the VB air inlet.

Advantages

- · Removable core locked by a 1/4 turn screw.
- EXCLUSIVE: core suspended using Clip 007 for simple resetting!
- Aesthetically pleasing and aeraulically efficient fin profiles.

FIELD OF APPLICATION

• Interior aesthetic grille to match OXYTONE inlets placed outside.

DESCRIPTION

- Comprises a frame surrounding the damper.
 The GFA 007 has a removable core to facilitate damper resetting. This finned-core is locked in place by the Clip 007, which opens with a flat or crossheaded screwdriver 6x6 and closes manually.
- The clip 007 also makes it possible to suspend the finned-core whilst resetting after smoke clearance, freeing up the users hands and meaning that they do not have to descend from the stepladder.
- Horizontal aluminium fins with a spacing of 25 mm.
- The profiles in use guarantee a lowest pressure loss and prevent anyone seeing through them.
- Air flow passage > 91.3 % (used to calculate the effective air flow passage for mechanical smoke

FINISH

- The standard finish is a natural anodised sheen.
- A high-resistance epoxy paint can be requested depending on the RAL colour code required. The paint is not applied to the 007 clip.

MOUNTINGS

- · Attaches to OPTONE 'Classic': products fitted with threaded inserts for the GFA 007 grille, using the four screws (supplied).
- Wall mounting: See GFAP 007.
- · Replacement of a GFA Alu: ask for details.

CLIP 007

The Clip 007 is multifunctional: in the open position the clips are used to support the finned-core, allowing the user to safely reset the damper using both hands, without having to climb down the stepladder. With the damper shut, simply centre the core and push on the self-locking 007 clips.

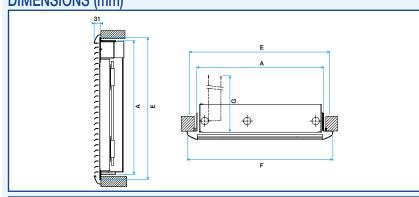
| Description | iption Code | |
|----------------------|-------------|--|
| Set of 6 x 007 clips | 11147071 | |

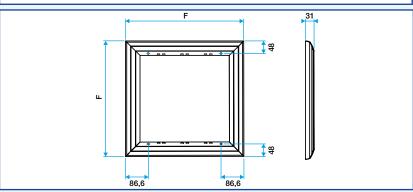
AVAILABLE OPTIONS

GFA 007 grille on OPTONE «Classic»: 11044408

| Description | Code |
|-------------------------------------|--------|
| «Overall dimensions + 50 mm» option | PLUS50 |
| Standard RAL 9010 colour (55%) | 9010 |
| Other RAL group 1 | RAL1 |
| Other RAL group 2 | RAL2 |
| Other RAL group 3 | RAL4 |

DIMENSIONS (mm)





For OPTONE Classic & OXYTONE, for the sizes of the GFA007 grille, see the corresponding product pages.

The grille frame itself defines the positioning of the 007 clips. We would recommend:

- clips 007 in the lower section of a smoke extraction damper (> 1 m 80 from the ground).
- clips 007 in the upper section of an air supply inlet (< 1 m from the ground).
- For reasons of aesthetics, we would recommend:

 Orient the fins upwards for smoke extraction,
- Orient the find downwards for air supply.







G3 filter for GFA 007 grille



Advantages

 Ideal for hygiene during smoke extraction tests.

FIELD OF APPLICATION

To avoid degradation to the quality of air when carrying out smoke extraction tests, ALDES proposes a G3 filter, positioned between the GFA 007 grille and the air inlet dampers, to prevent dust entering via the cold air VB inlets.

DESCRIPTION

- Filter uses fire-resistant and non-fire resistant polyester fibres.
- · Colour: white.
- Fire protection rating: M1.
- Efficiency: G3.
- Additional characteristics: See R29/1 Technical Sheet - available on request.

INSTALLATION

- 1 Fitting of filters for tests only:
- a. For each air inlet within the zone (or floor):
- Remove the GFA 007 core,
- Position the filter in front of the closed damper,
- Refit the GFA 007 core, which will hold the filter in place by compression.
- Test the zone (or floor), leave the fan running for a moment to 'clean' the duct network.
- c. Remove the filters, repeating the operations of 1a in reverse.
- 2 If necessary, restart the smoke extraction without the filter to measure air supply flow rates.

RANGE

OPTONE: ask for details.

'OVERALL + 50' option for GFA 007 grille

FIELD OF APPLICATION

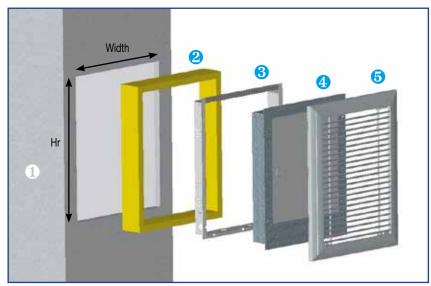
Grille adapted if the sleeve 2 is larger than the overall GFA 007 5.

DESCRIPTION

This option allows you to increase the width and height of the GFA 007 grille by 50 mm whilst retaining the same damper mounting points.

RANGE

Option available for GFA 007 grilles on OPTONE Classic.



the GFA 007 'overall + 50' option is used to hide the junction between duct and sleeve.



Smoke exhaust damper

GFA Alu grille



FIELD OF APPLICATION

• Aesthetic grille trim for GDF dampers.

DESCRIPTION

- Comprises a frame surrounding the damper.
- Horizontal aluminium fins, 25 mm spacing, held in place by an aluminium frame.
- The profiles in use guarantee a lowest pressure loss and prevent anyone seeing through them.

AIR FLOW

- The Test Report by the CETIAT N° 94 01 163 dated 16/12/94 guarantees an air flow percentage = 91.34%. This value is used to calculate the effective cross section of the airflow passage during smoke extraction.
- In fact, for natural smoke extraction, the Central Security Commission (CCS) decision of the 16.9.1992 states that an airflow passage of > 90% (test carried out by an independent laboratory) will have no impact on the calculation of the reduction in air flow passage.

FINISH

 A high-resistance epoxy paint can be requested depending on the RAL colour code required. Please consult us

GFA RANGE with choice of options

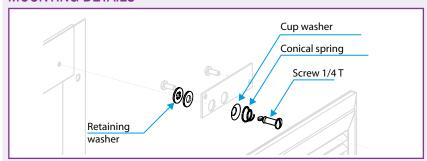
| | Description | Code |
|---------|-------------|----------|
| For GDF | | 11045098 |

FIXING OPTIONS

| Description | Code |
|--|----------|
| 2 x 1/4-turn square 'security' screws + lower rail | OPT45008 |
| 2 x 1/4-turn slotted screws + lower rail | OPT45018 |
| 4 clips | OPT45021 |
| 4 metric screws | OPT45023 |
| 1/4-turn for hinges (slotted & security) | OPT45047 |
| Hinge | OPT41915 |

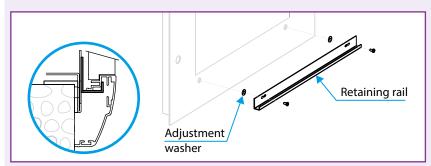
IMPORTANT: mountings using 1/4-turn screws (OPT 45018 slotted OPT 45008 security) require the 1/4-turn screw holder option (OPT 45017 available for the VANTONE by ordering).

MOUNTING DETAILS



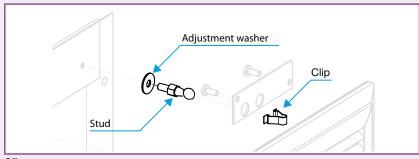
Quarter-turn screw (slotted head or square, security head).

Note: The quarter-turn screws can only be fitted to the vertical corresponding to the mechanism cache. Do not forget the OPT 45017 'quarter turn fixing adapter' for the VANTONE.



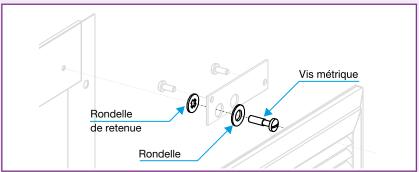
Lower rail

Note: For 1/4 turn screw fixings using the lower rail, an additional 15 mm grille height will be needed to correctly fit the system to the slide.



Clip

Note: Avoid holding grilles by the fins when unclipping. It is preferable to insert a flat screwdriver between the grille and the damper (or wall).



Metric screws

The GFA Alu grille, its mountings and hinges are designed for fitting with the mounting frame and damper overlaid upon the wall.

If not, continue with the adjustments and fit the adjustment elements:

- between the slide and the damper (washers, 1.5 mm thick, supplied),
- between the stud and the damper (washers/bolts supplied).



1 - What size do you want the grille to be?

A full height grille, that is to say, from floor to suspended ceiling, will produce a visual fluidity within the corridor, mixing the VB & VH dampers and close to the dimensions of a standard door.



GGH - VB damper, this grille:

- Can be fitted in front of any air inlet.
- Can be attached to a wall (with 30 mm spacing in front of the damper).
- Is fitted with a removable core granting access to the damper.
- The removable core is either type 007 or the invisible OMEGA type.

GGH - VH damper, this grille:

- Can be fitted in front of any smoke extraction damper,
- Can be attached to a wall (with 30 mm spacing in front of the damper).
- Is fitted with a removable core granting access to the damper,
- The removable core is either type 007 or the invisible OMEGA type.

Technical description See page 105



1 - What size do you want the grille to be?

A grille of identical size to the damper will create a visible difference between VB & VH dampers.

2 - Which fixing method should I use?

Mounted on the damper "GFA Range"

GFA 007

this grille:

- attaches directly to the damper,
- Is fitted with a removable core granting access to the damper, using a Clip 007,
- Can be enlarged by 5 cm in both height and width by the 'Overall + 50' option.
- See page 98.



Reserved for OPTONE
'Classic' dampers
Available in GFAP 007 version







Also exists with the invisible OMEGA clip

In front of any damper embedded into the wall (leave a gap of 30 mm)

"GFE Range"

GFE 007- visible frame

this grille:

- Can be fitted in front of any damper.
- Can be attached to a wall (via its mounting frame) (with 30 mm spacing in front of the damper),
- Is fitted with a removable core granting access to the damper, using a Clip 007,
- See page 102.

- GFE 007 edged, this grille:
- Can be fitted in front of any damper.
- Can be attached to a wall (with 30 mm spacing in front of the damper),
- Is fitted with a removable core granting access to the damper, using a Clip 007.
- See page 103.

aldes

Flush-mounted aesthetic grilles

GFE 007 visible frame or GFE visible frame



GFE 007 Visible frame



GFE 007 - Visible frame core suspended from Clip

'Fire' compliant

- · Complies with resistance test reports:
- The GFE completely covers the dampers completely,
- The finned-core is identical to that of a GFA Alu grille.

Advantages

- New removable core with the 007 clip for H ≤ 1000 mm.
- · Discreet and aesthetic design as an extension of the wall.
- RAL paint colours available (except for 007 clip).

Did you know?

- The designation "GFE" indicates that the grille is embedded into the wall.
- The designation "007" indicates that the grille is fitted with the Clip 007.
- The designation "visible frame" indicates that the grille has a flat frame of 27 mm.

FIELD OF APPLICATION

The interior of buildings does not always meet the requirements for the use of an oversize grille for GFA exhaust dampers (frame exceeds thickness of lining). With the GFE range, Aldes offers a range of aesthetically designed grilles ready for flush-mounting in the wall in front of the smoke exhaust damper.

These grilles are highly appreciated by architects and are either the same dimension as the damper they mask (GFE), or of large height (GGH).

DESCRIPTION

- The finned-core is identical to that of the GFA or GFAP, see page 95 and 106.
- Flat frame of 27 mm.

GFE 007- visible frame:

- With the removable core secured by the Clip 007 in the 27 mm frame - available for reserved dimensions of W x H: 250 < W < 1200 mm & 250 < H < 1000 mm (in steps of 25 mm).
- GFE visible frame:
- Also available with the finned-core fixed into the 27 mm frame - available for reserved dimensions of W x H: 250 < W < 1200 mm and 250 < H < 3200 mm (steps of 5 mm).
- A high-resistance epoxy paint can be requested depending on the RAL colour code required. The paint is not applied to the 007 clip.

INSTALLATION

• Anchoring preferable using an F4 mounting frame to be fixed to the wall. The GFE is equipped with F3 clips.

Selection Guide

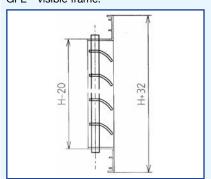
- To facilitate removal of the smoke extraction damper, select W & H dimensions in accordance with the rule: W (grille) = Overall width of damper + 40 mm* H (grille) = Overall height of damper + 80 mm** Round up W & H to the next 25 mm step.
- * 40 mm includes an 8 mm gap around the damper.
 ** 80 mm includes a gap of 9 mm around the damper.

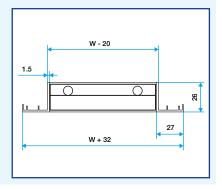
RANGE

| Description | Code |
|---|----------|
| GFE 007- visible frame | 11045336 |
| GFE - visible frame | 11045590 |
| F4 mounting-frame for GFE 11045336 & 11045590 | 11003001 |

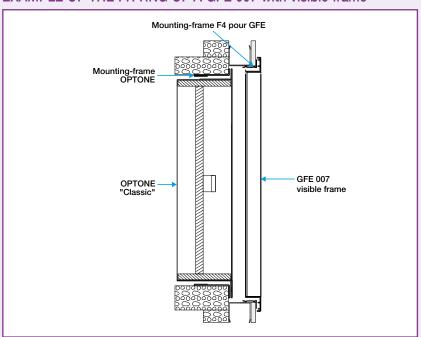
DIMENSIONS (mm)

GFE - visible frame:





EXAMPLE OF THE FITTING OF A GFE 007 with visible frame





Flush-mounted aesthetic grilles

GFE edged or GFE 007 edged



GFE - Edged

'Fire' compliant

- Complies with resistance test reports:
- The GFE completely covers the dampers completely,
- The finned-core is identical to that of a GFA Alu grille.

Did you know?

- The designation "007" indicates that the grille is fitted with the Clip 007.
- The designation "GFE" indicates that the grille is embedded into the wall.
- The designation "edged" indicates that the grille has an invisible frame.

Advantages

- New removable core with the 007 clip for H ≤ 1000 mm.
- Discreet and aesthetic design as an extension of the wall.
- Also available in 'full height' version (floor to ceiling).
- RAL paint colours available (except for 007 clip).
- New feature: removable core locked with 007 clip for H ≤ 1300 mm.

FIELD OF APPLICATION

The interior of buildings does not always meet the requirements for the use of an oversize grille for GFA exhaust dampers (frame exceeds thickness of lining). With the GFE range, Aldes offers a range of aesthetically designed grilles ready for flush-mounting in the wall in front of the smoke exhaust damper.

These grilles are highly appreciated by architects and are either the same dimension as the damper they mask (GFE), or of large height (GGH).

DESCRIPTION

- The frame is 'invisible' ('L' shaped cornice or just the thickness of the aluminium visible), known as 'liseré' or 'edged'.
- GFE Edged:
- with the clipped OMEGA core option for heights of up to H = 1000 mm,
- With the finned-core in an 'edged' frame available for reserved dimensions of W x H: 250 < W < 1200 mm & 100 < H < 3200 mm (in steps of 5 mm).
- GFE 007 edged: with removable core secured by clip 007 in the 'edged' frame - up to 100 < H < 1300 mm (5 mm increments).
- A high-resistance epoxy paint can be requested depending on the RAL colour code required. The paint is not applied to the 007 clip.

INSTALLATION

• Frame attached using screws (not supplied).

Selection Guide

 To facilitate removal of the smoke extraction damper, select W & H dimensions in accordance with the rule:

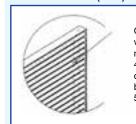
W (grille) = Overall width of damper + 70 mm * H (grille) = Overall height of damper + 70 mm * Round up W & H to the next 25 mm step.

* 70 mm includes a gap of 10 mm around the damper $(2 \times 25 + 2 \times 10)$.

RANGE

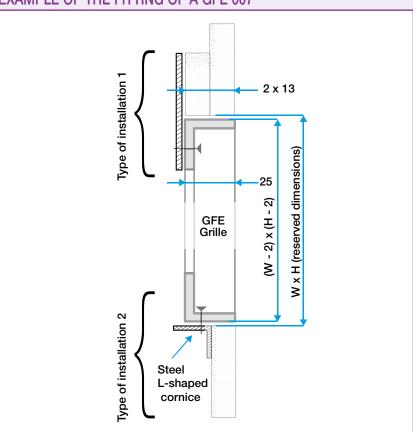
| Description | Code | |
|--|----------|--|
| GFE - edged (with Omega clipped core option) | 11045591 | |
| GFE 007 - Edged | 11045337 | |

DIMENSIONS (mm)



Grille with invisible mounting screws 4 x 10 mm diameter holes between 4th & 5th fin.

EXAMPLE OF THE FITTING OF A GFE 007



Grilles for ALDES smoke extraction dampers

Aesthetically pleasing and simple!







• Aesthetic choices:

- With or without visible frame,
- Finish anodised aluminium or RAL paint,
- Damper or overall height dimensions.

Choice of fixings:

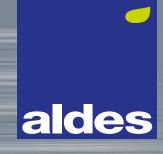
- Embedded into a wall, with or without mounting-frame.

Easy maintenance:

- Fin cores can be removed from all grilles,
 Core can be suspended to facilitate re-arming of the dampers at height (on grilles fitted with the 'Clip 007').

• Aeraulic performance:

- Grilles with airflow passage > 90%.



Advantages

• Provides the corridor with a superb

aesthetic design through the alternation of grilles from the floor

 Identical aesthetic design for both low and high position smoke

Easy maintenance due to the removable 1m core.

to the ceiling.

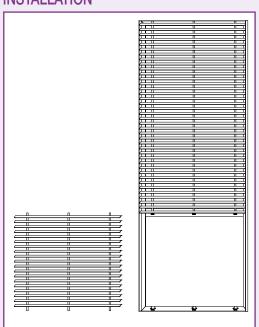
dampers.

Flush-mounted aesthetic grilles

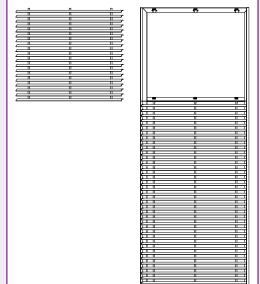
GGH: Full-height grille, with removable 1m core, for flush mounting in wall

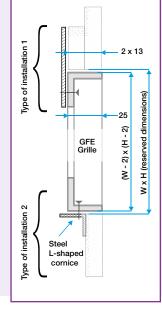


INSTALLATION



GGH lower opening - VB





FIELD OF APPLICATION

- These new grilles offer an unbeatable aesthetic design!
- Positioned in front of an VB damper or VH smoke exhaust damper, the attractive design is completely identical. The only difference is that the 1m core is removable in the lower part for a VB position damper and in the upper part for a VH damper. The corridor offers an unrivalled visual continuity.

DESCRIPTION

- The 'edged' frame is thin, almost totally hidden, only its thickness remains visible.
- Built using the GFA as a base, the core's aluminium vanes are spaced at 25 mm.
- A finned-core with a height of 1 metre can be unclipped, either in the lower part to gain access to the VB fresh air inlet dampers, or via the upper part for the VH smoke exhaust dampers.

INSTALLATION

- The frame is drilled for attachment to the wall (screws not supplied).
- Ensure that you do not warp the grille when mounting it.

RANGE

- These grilles are only available on order for large dimensions, from:
- 250 < Width W < 1200 mm,
- 1000 < Height H < 2600 mm.

For further information, contact your Aldes agency.

| Description | Code |
|------------------------------------|----------|
| GGH with low position opening VB: | 11045598 |
| GGH with high position opening VH: | 11045599 |

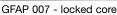
A high-resistance epoxy paint can be requested depending on the RAL colour code required.

aldes

Aesthetically pleasing wall-mounted grilles

GFAP 007: surface-mounted installation







Advantages

- Aesthetics Identical to the GFA 007.
- Removable core locked by a 1/4 turn screw.
- EXCLUSIVE: core suspended by 007 clip.
- · Simple to install.
- Aesthetically pleasing and aeraulically efficient fin profiles.

FIELD OF APPLICATION

This aesthetically pleasing grille can hide edges or dampers.

FINISH

- The standard finish is a natural anodised sheen.
- High resistance epoxy paint can be requested (excluding Clip 007) in the required RAL colour.

DESCRIPTION

- The GFAP 007 grille is in every way identical to a GFA 007 grille, except that only the nominal dimensions are different. The choice of dimensions depends on the opening to be covered (no connection with the X,Y on an Aldes damper).
- The GFAP 007 can be fixed directly on to the wall using the spacers provided, without a mounting frame. It is particularly well suited for OXYTONE and AIRONE air inlets.

Selection Guide

To choose the dimensions for a GFAP 007, the simplest way is to apply the rule:

- X = opening width 50 mm,
- Y = opening height 50 mm.

INSTALLATION

- Can be wall-mounted without mounting frame.
- Screws straight onto the wall (screws not supplied).
- Spacers are provided to fill the space between the grille and the wall.

RANGE

The choice of dimensions (X,Y) is based on the mounting points and the dimensions of the space required: X + 50 mm / Y + 50 mm,

 $200 \le X \le 1200$ mm (in steps of 5 mm), $250 \le Y \le 1000$ mm (in steps of 25 mm).

Description of the filter - See Page 111.

| Description | Code |
|-----------------------|----------|
| GFAP 007 | 11045335 |
| Filter G3/M1 GFAP 007 | 11045323 |

| X + 190 | 31 | Space | requirement: | X + 50 | Y + 50 | Y + 50 | | X + 16.8 | 86.6 | | 86.6 | |



Aesthetically pleasing wall-mounted grilles

GFAP: surface-mounted installation





GFAP mounting frame with hinge adapter



GFAP mounting frame with adjustment kit

FIELD OF APPLICATION

This aesthetically pleasing grille can hide edges or dampers.

DESCRIPTION

• The GFAP is identical to the GFA Alu (See Page 99).

FINISH

- The standard finish is a natural anodised sheen.
- A high-resistance epoxy paint can be requested depending on the RAL colour code required.

INSTALLATION

- Can be wall-mounted with or without mounting frame.
- Screws straight onto the wall (screws not supplied).

RANGE

The choice of dimensions (X,Y) is based on the mounting points and the dimensions of the space required.

 $200 \le X \le 1200$ mm (in steps of 5 mm).

 $200 \le Y \le 1500$ mm (in steps of 25 mm).

| | Description | Code |
|------|-------------|----------|
| GFAP | | 11045050 |

MOUNTING-FRAME

The GFAP mounting-frame is used to attach the grille, using screws, clips or hinges.

| Description | Code |
|---|----------|
| GFAP mounting-frame | 11045077 |
| Adjustment kit for GFAP on mounting frame | 11041950 |
| Hinge adapter on GFAP mount- ing-frame | 11041949 |

HINGE KIT

| Description | Code |
|-----------------------|----------|
| Hinge kit for GFA Alu | 11041915 |

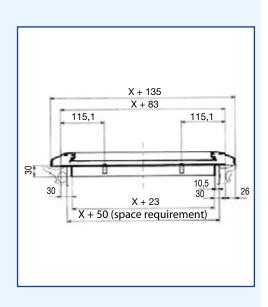
To adapt the hinges to the GFAP, use codes 11041915 & 11041949.

For a grille Y \geq 700, order two hinge kits and two hinge adapters.

DIMENSIONS (mm)

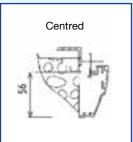
GFAP with mounting-frame.

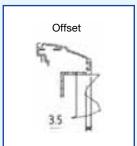


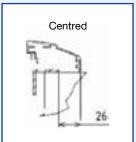


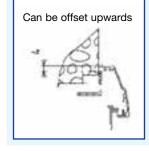
ADJUSTMENT KIT

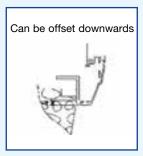
The Adjustment Kit is used to position the GFAP with respect to its mounting frame (See Drawings).











PLAFONE Smoke exhaust damper





Presentation of the new PLAFONE tunnel damper range





PLAFONE closed in stand-by position



PLAFONE open in safety position

Made in France

Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1054.
- El 120 (ved-ho-i → o) S -1500
 Pa AA multi.
- Certified and compliant with NF-S-61937-10.

Advantages

- · Minimal leakage rate.
- Validate for remote and horizontal installations.
- Upgradable ISONE mechanism.
- Extensive range of certified ducts

INTRODUCTION

Like gate type dampers, CE marking for tunnel dampers has been obligatory since February 2013. The new PLAFONE tunnel damper has been developed in accordance with all European and French requirements.

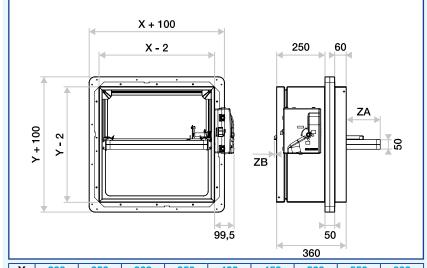
QUALIFICATION

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1054
- Fire resistance classification according to EN 1366-10 test: El 120 (ved-ho-i
 →o) S -1500 Pa - AA multi, compliant with § 7.2.4 of EN13501-4,

Qualified up to fire rating El 120 S on the following smoke exhaust ducts (and on EN 1366-9-compliant products of the same material and the same density):

- PROMATECT L500
- TECNIVER L
- GEOFLAM / GEOFLAM Light
- EXTHAMAT P
- GLASROC F V500
- DESENFIRE
- STAFF PUR
- Compliant with NF S 61937-10.
- Leakage rate: the PLAFONE damper presents an extremely low leakage rate: under 150 Pa, the leak is < 200 m³/h per m² of vane. (Under 1500 Pa.)

DIMENSIONS (mm)



| Y | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ZA | 0 | 12 | 36 | 61 | 86 | 101 | 126 | 151 | 176 |
| ZB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 |
| | | | | | | | | | |

| Υ | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
|----|------|------|------|-------|-------|-------|-------|-------|
| ZA | 201 | 226 | 251 | 276 | 301 | 326 | 351 | 376 |
| ZB | 37.2 | 62.2 | 87.2 | 112.2 | 137.5 | 162.2 | 187.2 | 212.5 |

FIELD OF APPLICATION

Tunnel smoke exhaust damper intended for public buildings, high-rise buildings, or cat. 3 and 4 residential buildings. Suitable for installation in technical ceilings. Smoke exhaust dampers are normally closed and only open in the event of a fire, on electrical command from the Fire safety control system.

DESCRIPTION

- The PLAFONE smoke exhaust damper is inspired by the ISONE/Ap wall-mounted damper, it features:
 - Two metal sleeves on either side of a refractory material structure that acts as a vane and fixing frame,
 - An intumescent seal and cold gasket placed between the vane and the refractory frame, to achieve the required leakage rate,
 - The refractory complex is drilled with holes to enable attachment to the smoke exhaust duct certified EN 1366-8 or -9,
 - An ISONE-type electric control mechanism is used to house an electromagnetic trip device, up to 4 signalling contacts and an EHOP reset motor.
- Smoke exhaust dampers are never fitted with fuses.
- The nominal X and Y dimensions of the damper correspond to the embedding dimensions in the duct (or duct air stream).

Further information concerning ISONE mechanisms is available in the fire damper section.



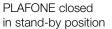




Presentation of the new PLAFONE tunnel damper range









PLAFONE open in safety position

Remember the selection softuare Conceptor Smoke Extraction

Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1054.
- El 120 (ved-ho-i ← o) S -1500 Pa - AA multi.
- Certified and compliant with NF-S-61937-10.

Advantages

- Minimal leakage rate.
- Validate for remote and horizontal installations.
- Upgradable ISONE mechanism.

SIZE RANGES AND FREE AIR PASSAGES (dm²)

| | Control of the contro | | | | | | | | | | | | | | | | | |
|--|--|------|------|------|------|------|------|------|------|---------|------|------|------|------|------|------|------|------|
| PLAF | ONE | | | | | | | | | Width X | | | | | | | | |
| 11041111 200 250 300 350 400 450 | | | | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | |
| | 200 | 1.5 | 1.9 | 2.4 | 2.9 | 3.4 | 3.9 | 4.4 | 4.9 | 5.4 | 5.9 | 6.4 | 6.8 | 7.3 | 7.8 | 8.3 | 8.8 | 9.3 |
| | 250 | 2.2 | 2.9 | 3.7 | 4.4 | 5.2 | 5.9 | 6.6 | 7.4 | 8.1 | 8.9 | 9.6 | 10.3 | 11.1 | 11.8 | 12.6 | 13.3 | 14.0 |
| | 300 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 | 7.9 | 8.9 | 9.9 | 10.9 | 11.8 | 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 |
| | 350 | 3.7 | 4.9 | 6.2 | 7.4 | 8.6 | 9.9 | 11.1 | 12.4 | 13.6 | 14.8 | 16.1 | 17.3 | 18.6 | 19.8 | 21.0 | 22.3 | 23.5 |
| | 400 | 4.4 | 5.9 | 7.4 | 8.9 | 10.4 | 11.9 | 13.4 | 14.8 | 16.3 | 17.8 | 19.3 | 20.8 | 22.3 | 23.8 | 25.3 | 26.8 | 28.3 |
| | 450 | 4.3 | 5.9 | 7.6 | 9.2 | 10.9 | 12.5 | 14.2 | 15.8 | 17.5 | 19.1 | 20.8 | 22.4 | 24.1 | 25.7 | 27.4 | 29.0 | 30.7 |
| | 500 | 4.9 | 6.8 | 8.7 | 10.6 | 12.5 | 14.4 | 16.3 | 18.2 | 20.1 | 22.0 | 23.9 | 25.8 | 27.7 | 29.6 | 31.5 | 33.4 | 35.3 |
| > | 550 | 5.6 | 7.7 | 9.9 | 12.0 | 14.2 | 16.3 | 18.5 | 20.6 | 22.8 | 24.9 | 27.1 | 29.2 | 31.4 | 33.5 | 35.7 | 37.8 | 40.0 |
| Height | 600 | 6.2 | 8.6 | 11.0 | 13.4 | 15.8 | 18.2 | 20.6 | 23.0 | 25.4 | 27.8 | 30.2 | 32.6 | 35.0 | 37.4 | 39.8 | 42.2 | 44.6 |
| <u>=</u> | 650 | 6.9 | 9.5 | 12.2 | 14.8 | 17.5 | 20.1 | 22.8 | 25.4 | 28.1 | 30.7 | 33.4 | 36.0 | 38.7 | 41.3 | 44.0 | 46.6 | 49.3 |
| | 700 | 7.5 | 10.4 | 13.3 | 16.2 | 19.1 | 22.0 | 24.9 | 27.8 | 30.7 | 33.6 | 36.5 | 39.4 | 42.3 | 45.2 | 48.1 | 51.0 | 53.9 |
| | 750 | 8.2 | 11.3 | 14.5 | 17.6 | 20.8 | 23.9 | 27.1 | 30.2 | 33.4 | 36.5 | 39.7 | 42.8 | 46.0 | 49.1 | 52.3 | 55.4 | 58.6 |
| | 800 | 8.8 | 12.2 | 15.6 | 19.0 | 22.4 | 25.8 | 29.2 | 32.6 | 36.0 | 39.4 | 42.8 | 46.2 | 49.6 | 53.0 | 56.4 | 59.8 | 63.2 |
| | 850 | 9.5 | 13.1 | 16.8 | 20.4 | 24.1 | 27.7 | 31.4 | 35.0 | 38.7 | 42.3 | 46.0 | 49.6 | 53.3 | 56.9 | 60.6 | 64.2 | 67.9 |
| | 900 | 10.1 | 14.0 | 17.9 | 21.8 | 25.7 | 29.6 | 33.5 | 37.4 | 41.3 | 45.2 | 49.1 | 53.0 | 56.9 | 60.8 | 64.7 | 68.6 | 72.5 |
| | 950 | 10.8 | 14.9 | 19.1 | 23.2 | 27.4 | 31.5 | 35.7 | 39.8 | 44.0 | 48.1 | 52.3 | 56.4 | 60.6 | 64.7 | 68.9 | 73.0 | 77.2 |
| | 1000 | 11.4 | 15.8 | 20.2 | 24.6 | 29.0 | 33.4 | 37.8 | 42.2 | 46.6 | 51.0 | 55.4 | 59.8 | 64.2 | 68.6 | 73.0 | 77.4 | 81.8 |

| PLAF | ONE | | | | | Wid | th X | | | , | |
|----------|------|------|------|------|------|------|------|------|------|------|------|
| 1104 | 1111 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
| | 200 | - | - | - | - | - | - | - | - | - | - |
| | 250 | - | - | - | - | - | - | - | - | - | - |
| | 300 | 19.8 | 20.8 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 |
| | 350 | 24.8 | 26.0 | 27.2 | 28.5 | 29.7 | 31.0 | 32.2 | 33.4 | 34.7 | 35.9 |
| | 400 | 29.7 | 31.2 | 32.7 | 34.2 | 35.7 | 37.2 | 38.7 | 40.2 | 41.7 | 43.2 |
| | 450 | 32.3 | 34.0 | 35.6 | 37.3 | 38.9 | 40.6 | 42.2 | 43.9 | 45.5 | 47.2 |
| | 500 | 37.2 | 39.1 | 41.0 | 42.9 | 44.8 | 46.7 | 48.6 | 50.5 | 52.4 | 54.3 |
| ≻ | 550 | 42.1 | 44.3 | 46.4 | 48.6 | 50.7 | 52.9 | 55.0 | 57.2 | 59.3 | - |
| Height | 600 | 47.0 | 49.4 | 51.8 | 54.2 | 56.6 | 59.0 | 61.4 | 63.8 | - | - |
| H H | 650 | 51.9 | 54.6 | 57.2 | 59.9 | 62.5 | 65.2 | 67.8 | - | - | - |
| | 700 | 56.8 | 59.7 | 62.6 | 65.5 | 68.4 | 71.3 | - | - | - | - |
| | 750 | 61.7 | 64.9 | 68.0 | 71.2 | 74.3 | - | - | - | - | - |
| | 800 | 66.6 | 70.0 | 73.4 | 76.8 | - | - | - | - | - | - |
| | 850 | 71.5 | 75.2 | 78.8 | - | - | - | - | - | - | - |
| | 900 | 76.4 | 80.3 | - | - | - | - | - | - | - | - |
| | 950 | 81.3 | - | - | - | - | - | - | - | - | - |
| | 1000 | - | - | - | - | - | - | - | - | - | - |

Possibility of circular connections, diameters from 160 mm to 900 mm, using specific accessories.

| | | -, | | | | 9 | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ø | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 710 | 800 | 900 |
| XxY | 265x265 | 265x265 | 315x315 | 365x365 | 415x415 | 465x465 | 515x515 | 565x565 | 600x600 | 670x670 | 750x750 | 840x840 | 940x940 |
| Free air passage (dm²) | 3,5 | 3,5 | 5,6 | 8,2 | 11,4 | 15 | 19,1 | 23,8 | 27,3 | 35,1 | 45,2 | 58,2 | 74,4 |
| VIROLE PLAFONE reference | 11041050 | 11041051 | 11041052 | 11041053 | 11041054 | 11041055 | 11041056 | 11041057 | 11041058 | 11041059 | 11041060 | 11041061 | 11041062 |

Free surface (in dm²) = (X-70) x (Y-120) / 1000 (X & Y in mm) for y > 400 Free surface (in dm²) = (X-52) x (Y-102) / 1000 (X & Y in mm) for y \leq 400



PLAFONE Smoke exhaust damper





New PLAFONE tunnel damper







PLAFONE closed in stand-by position

PLAFONE open in safety position

Compliance

- Compliant with CE marking as per EN 12101-8: 1812 - CPD -1054.
- El 120 (ved-ho-i ← o) S -1500 Pa - AA multi.
- Certified and compliant with NF-S-61937-10.

Advantages

- · Minimal leakage rate.
- Validate for remote and horizontal installations.
- Upgradable ISONE mechanism.

INSTALLATION

For which installation?

Qualified on a Promatect L500 or EXTHAMAT smoke exhaust duct and on ducts compliant with EN 1366-8 and -9 of the same material and same density.

Multi-compartment smoke exhaust dampers can be used for single-compartment installations.

The fire classification stipulates the service pressure: the damper must not be subjected to pressure drops > -1500 Pa.

Fire direction: like all smoke exhaust dampers, respect fire inside the smoke exhaust duct.

How?

The PLAFONE tunnel damper is equipped with a short 60 mm sleeve that must be embedded in the duct air stream. Fixing in the duct is done in the usual way for installation in ducts, using screws or adhesive mortar. The CONCEPTOR DESENFUMAGE smoke damper selection software may help you to define the installation dimensions for a technical ceiling.

The nominal damper dimensions X and Y correspond to the interior dimensions of the duct.

The fitting of the mounting-frame into the duct support must conform to CE certification and the classification reports available via www.aldes.fr.

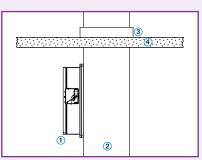
RANGE with choice of options

 The PLAFONE smoke exhaust damper exists in a rectangular version for the most stringent fire resistance class: El 120 S → -1500 Pa.

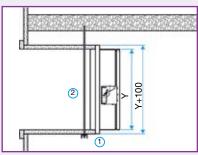
| Description | Code |
|-----------------------|----------|
| PLAFONE tunnel damper | 11041111 |

DIAGRAM - VERTICAL INSTALLATION

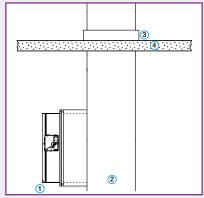
1. Attachment to vertical duct wall.

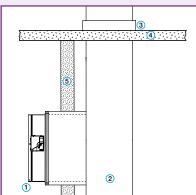


2. Attachment to horizontal side flue of smoke exhaust duct.



2. Attachment to horizontal side flue of smoke exhaust duct.





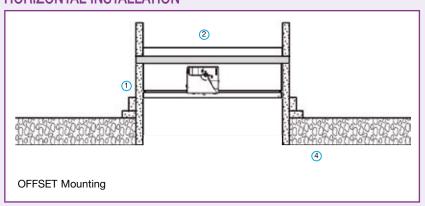
- 1 PLAFONE tunnel damper.
- 2 Smoke extraction duct.
- 3 Recommended for tile passage (depending on brand of duct used).
- 4 Tile.
- 5 Partition (not impacting on Fire Resistance Classification).

AVAILABLE OPTIONS

| Equipment | 24V Option | 48V Option |
|---------------------------|------------|------------|
| selection | Code | Code |
| VDS 24/48 + FCU1 | OPT43304 | OPT43306 |
| VDS 24/48 + FCU1 + DCU1 | OPT43305 | OPT43307 |
| VM 24/48 + FCU1 | OPT43308 | OPT43310 |
| VM 24/48 + FCU1 + DCU1 | OPT43309 | OPT43311 |
| VDS 24/48 + FCU1 + | OPT43312 | OPT43314 |
| EHOP30s | 0 | 0 |
| VDS 24/48 + FCU1 + DCU1 + | OPT43313 | OPT43315 |
| EHOP30s | | |
| VM24/48 + FCU1 + EHOP30s | OPT43316 | OPT43318 |
| VM24/48 + FCU1 + DCU1 | OPT43317 | OPT43319 |
| + EHOP30s | 01 140017 | 01 140010 |

| Description | Code |
|-------------|----------|
| FCU2 + DCU2 | OPT43320 |

HORIZONTAL INSTALLATION





PLAFONE Smoke exhaust damper





Fixed vane grilles tiles







Advantages

- Suitable for standard suspended-ceiling tiles.
- AU 123 & AU 124 series, with thin frame, for greater rigidity.

Grille AO 123 Z

Grille AO 251

FIELD OF APPLICATION

- Air recovery for all ventilation & air conditioning applications.
- Ceiling installation replacing a suspended ceiling tile

DESCRIPTION

AO 123 Z

- Square, straight mesh 15 x 15 mm without frame.
- White epoxy painted aluminium finish, RAL 9010.

AU 123 Z

- Square, straight mesh 15 x 15 mm with thin 5 mm frame.
- White epoxy painted aluminium finish, RAL 9010.

AU 124 Z

- \bullet Square, angled mesh 45° 15 x 15 mm with thin 5 mm frame.
- White epoxy painted aluminium finish, RAL 9010.

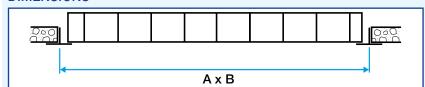
AO 251

- Grille with fins angled at 45°.
- Finish: natural anodised aluminium or white epoxy paint (RAL 9010).

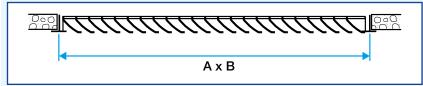
SC 370

- Perforated plate 45% free surface excluding frame.
- White epoxy painted finish, RAL 9010.
- Gravity mounting on 'T' pieces in the suspended ceiling.

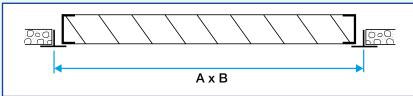
DIMENSIONS



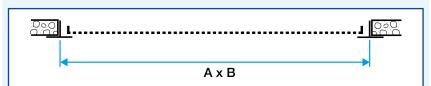
Grille AO 123



Grille AO 251



Grille AU 124



Grille SC 370

| A (mm) | B (mm) | Ø spigot (mm) | Plenum height (mm) | | |
|--------|--------|---------------|--------------------|--|--|
| 600 | 600 | 200 | 300 | | |
| 1200 | 600 | - | - | | |

ACCESSORIES

• Galvanised steel connecting plenum (side connector).

ADDITIONAL RANGE

• Paint finish from RAL colour chart (contact us).

RANGE

| Dimensions AxB | Anodised finned grille AO 251 Code | White finned grille AO 251 Code | White mesh grille AO123-Z Code | White mesh grille AU 124-Z Code | Plenum - side con- nector RE 123 Code |
|-------------------|--|---------------------------------------|--------------------------------------|---------------------------------------|--|
| 600 x 600 | 11050667 | 11050668 | 11050661 | 11050727 | 11053694 |
| 1200 x 600 | | | 11050662 | - | - |

| Dimensions AxB | White perforated plate White perforated plate SC 370 + filter SC 370 W | | Spare filter W | White mesh grille AU 123-Z | Plenum - side connector RE 123 | |
|-------------------|---|----------|-------------------|-------------------------------|--------------------------------------|--|
| | Code | Code | Code | Code | Code | |
| 600 x 600 | 11050669 | 11050670 | 11053499 | 11050725 | 11053694 | |



Fire dampers

Leader in the French market, ALDES has already delivered more than a million fire dampers, which have includes a variety of innovative features, such as:

- A surface-mounted version, which can be installed without having to be sealed, thus remaining removable,
- An unequalled ability to upgrade the ISONE mechanism.
- A new range subjected to fire resistance testing at 1500 Pa,
- An 'ALDES Control' pack to simulate the Fire Safety Control Unit (CMSI) prior to finalising the connections.

ALDES also supplies fire dampers for specific uses such as the EPR Nuclear Power Plants in FLAMANVILLE or for motorway tunnels.

Mechanisms



p. 114



p. 118





'ALDES CONTROL' PACK VRFI p. 155 p. 156

Dampers





Surface-mounted Isone+ **p. 120**



Circular flush-mounted Isone+ p. 130



Rectangular flush-mounted Isone+
p. 137



ISONE 1500 with casing **p. 146**



ISONE 1500 with sleeve **p. 147**



MINISONE p. 149

Terminal dampers



CF1 / CF2 **p. 152**





The regulatory environment for fire dampers is changing

For over 10 years, the European Union has been gradually implementing the "Construction Products" directive on a product by product basis. Today, it is the turn of fire dampers to respect (€ marking. This new regulation may disrupt the habits of stakeholders in the fire protection industry. In particular these changes concern:

- New fire resistance testing and classification methods.
- New European vocabulary concerning fire resistance.

FROM A TECHNICAL STANDPOINT, WHAT CHANGES AFFECT FIRE DAMPERS?

The answer is illustrated below with the mosxt widely sold fire damper in France:

Did you know?

In regulatory terms, a fire damper is selected according to the service pressure.



The damper is identical but the vocabulary concerning its fire classification has changed, to become pan-European:

CF 2h - under 500 Pa ⇒ E I 120 S - i → O - Ho / Ve - under 500 Pa

EXPLANATION OF THE NEW "EUROCLASS" FIRE PROTECTION VOCABULARY:

- E = Integrity against fire (corresponds approximately to the former Fire Retardant),
- ■ = Insulation (El corresponds approximately to our former Fire Damper),
- 120 = duration in minutes,
- S = the leakage rate no higher than 200 m³/h maximum per m², under test pressure, generally 500 or 1500 Pa. The S criteria is obligatory in France,
- i ← o = the damper is tested for fire in both directions,
- **Ho** = the damper is tested when mounted horizontally,
- $\ensuremath{\mathbf{Ve}}$ = the damper is tested when mounted vertically,
- 500 Pa: the negative pressure applied to the damper during the fire resistance test.

HOW TO SELECT A FIRE DAMPER WITH < € MARKING?

- 1 Ensure the presence of the certificate of € compliance as per EN 15650.
- 2 Ensure that the classification of the damper "El 120 S..." corresponds to the intended use. Particular attention should be paid to the size ranges. For example, large-dimension dampers will be replaced by smaller ones that will need to be assembled in batteries.

aldes

ISONE mechanisms: fully adaptable in just a few minutes!



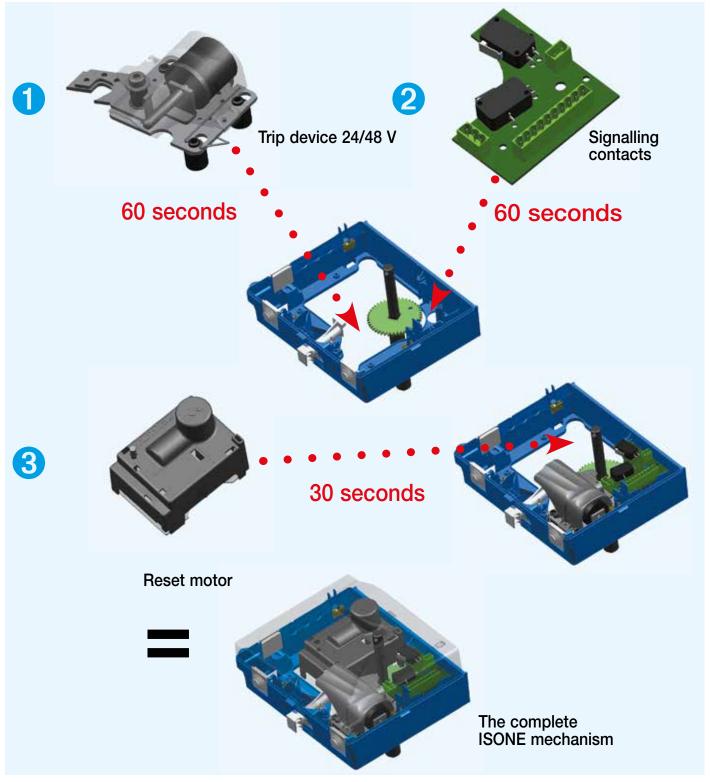
Since 1984, all ALDES dampers have been upgradeable. This means that, once installed, the damper mechanism can be improved by fitting an electromagnetic tripping device, one or more signalling contacts and a reset motor.

The dampers can therefore be adapted to match changing regulatory requirements and

With the ISONE mechanism, upgradeability is simplified to the limit! Thanks to plug-in, tool free fittings, the ISONE mechanism can be transformed into its most complete version in less than 3 minutes.

The reset motor is obviously the most interesting to the operator, as it allows him to perform the obligatory annual tests from a distance, thus avoiding having to dismantle suspended ceilings.

If no electrical supply is available, just use the portable ALDES CONTROL pack (See





ISONE mechanisms: fully adaptable in just a few minutes!

EHOP 30S remote reset motor



INSTALLATION

Ensure the damper is in safety position prior to any intervention. Attention: To reset the damper, the airflow must be zero.

Installation of motor



Installation of motor



Replace the ISONE cover.

To remove the motor



- Disconnect the connector.
- Lift out the pin (1).
- Remove the motor (2 3).

Pin descends into housing



Characteristics

- Voltage: 21 to 53 V DC and AC.
- Maximum current:
- 0.7 A under 24 V,
- 0.35 A under 48 V.

REMINDER: the power supply must be Very Low Safety Voltage.

- Reset in 10 sec.
- Automatic stop at end of cycle.
- 2 seconds of stop time between 2 cycles.
- Operating temperatures: -10 to +50 °C.
- Service life: 1500 operations.
- · Maintenance-free.
- The output impeller rotates freely when the motor is not powered.

ISONE fire damper mechanism

ISONE+: fully adaptable in just a few minutes!



Advantages

- Upgradeable mechanism: all equipment can be installed/removed at any time; operations can be carried out single-handed without tools.
- 24 or 48 V?: control errors rendered impossible by bi-voltage trip device.
- Easy to connect: all ISONE terminals are fitted with fool-proof devices and can be disconnected without tools.

DESCRIPTION

- The ISONE mechanism can be fitted with all tripping, signalling & reset equipment, either in the factory or on-site at a later date.
- All this equipment is connected within the same IP42 box, with a blue base, designed to provide you with a number of installation and test tips.
- The transparent clip-fit cover can be removed using a large screwdriver and shows the position of the damper.
- 1 The 3 cable glands slide into the box.
- 2 Ergonomic & simple trip command.
- 3 Electromagnetic trip device 24/48 V (prevents control errors).
- 4 Disconnectable terminal for easy electrical connections.
- Signalling contacts.
- 6 Reset lever accessible without removing cover; 1/4 of a turn with a screwdriver is sufficient to open the damper.
- 7 30 s EHOP reset motor.

TRIPPING OPTIONS

• Thermal trip FTE 70°C

A thermal, stainless steel rod is fitted into the mechanism box, held in place by a screw. Rapid access for fuse changes.

70° fuse.

• Electromagnetic trip

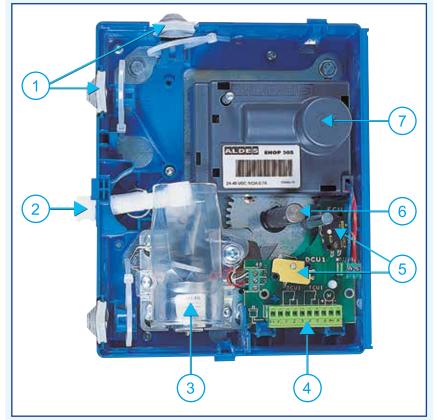
Operates on external command (e.g. Fire safety control system) via shunt trip (VDS) or power cut-off (VM).

An exclusive trip device, can operate under 24 or 48 Vdc. Manual adjustment switch Power: VDS < 3.5 W, VM < 1.5 W.

The tripping assembly can be removed, without tools & single handed.

Manual control

White handle integrated into the unit for tripping without having to remove the cover.









Electromagnetic trip device



ISONE fire damper mechanism

SIGNALLING OPTIONS

The signalling contacts are fitted to printed circuit boards. All boards are clipped into the mechanism housing and can be removed easily and quickly without tools. The connector terminals are fitted with fool-proof devices and can be removed easily.

• PCB No.1 - FCU1 - DCU1

Reserved for dampers with Thermal Fuse (FTE) only.

Includes a choice of:

- End of travel contact FCU1 (shows that the damper is closed)
- Start of 'travel contact DCU1 (shows that the damper is open),
- Both contacts FCU1 + DCU1.

• PCB No.2 - motor electromagnet

Adapted to dampers fitted with VDS or VM electromagnetic trip device.

It is systematically fitted with an FCU1 end of travel contact. It can also be fitted with a DCU1 start of travel contact.

• PCB No.3 - FCU2 - DCU2

Clips onto PCBs 1 & 2.

Systematically fitted with start and end of travel contacts FCU2 + DCU2.

RESET OPTIONS

Manual reset

Manual reset is possible on all ISONE dampers without having to remove the cover.

Using a large screwdriver, turn the operating shaft a quarter of a turn.

• EHOP 30s reset motor

Used to return the damper to its standby position without touching the unit.

Easily connected with one hand, without tools, fits into the mechanism unit.

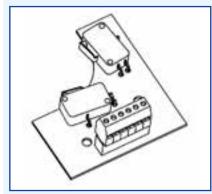
Can be removed with one hand, without tools.

Resets in less than 10 seconds.

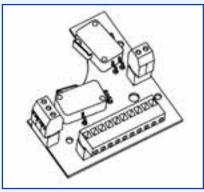
Max. current absorbed during resetting 0.7 A under 24 V - 0.35 A under 48 V.

Current absorbed at other times = 0.

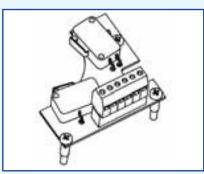
Voltage between 24 & 48 Vdc (VDA).



PCB No.1 - FCU1 + DCU1



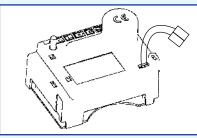
PCB No.2 - FCU1 + DCU1



PCB No.3 - FCU2 + DCU2



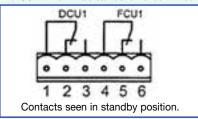
Mechanism box



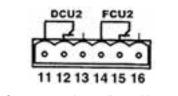
EHOP 30s reset motor

ELECTRICAL CONNECTION

The ISONE® terminals can be removed without tools, the electrical wiring is held in place by screws.

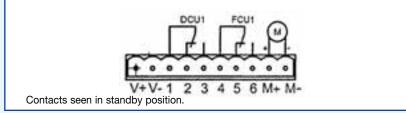


Board No. 1 FCU1-DCU1: 2 contacts for ISONE with FTE only = 6 terminals.



Contacts seen in standby position.

Board No. 3 FCU2-DCU2: 2 auxiliary contacts = 6 terminals.



Board No.2 - motor/electromagnet: electromagnet + 2 contacts + motor = 10 terminals



..... 117

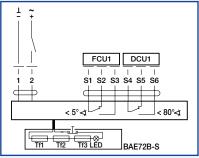
BF/BLF Mechanism

ISONE+ fire dampers can house the BF/BLF mechanism!

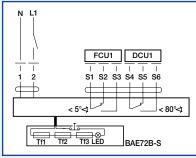


DESCRIPTION

- Isone+ EM or FDP fire dampers can house the BF/ BLF mechanism.
- The BF/BLF motor moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted.
- Thermo-electric fuse 72°C (BAE72) for BF/BLF mechanism.
- Manual or motorize reset.
- 24 V or 230 V.
- IP 54
- FC/DC signalling contacts (open/closed position).



BLF 24 V - Contacts are illustrated on standby



BLF 230 V - Contacts are illustrated on standby

TECHNICAL DETAILS

| 4 mechanism | BI | _F | BF | | |
|---|------------------------------------|--------------------------|------------------------------------|--------------------------|--|
| models | 24 V | 230 V | 24 V | 230 V | |
| Rated Voltage | AC 24 V 50 / 60 Hz - DC 24 V | AC 230 V 50 / 60 Hz | AC 24 V 50 / 60 Hz - DC 24 V | AC 230 V 50 / 60 Hz | |
| Consumption (resetting) | 5 W | 6 W | 7 W | 8 W | |
| Permanent consumption (excl. resetting) | 2.5 W | 3 W | 2 W | 3 W | |
| Resetting time | 40 to 75 s | 40 to 75 s | 140 s | 140 s | |
| Cable length: | 1 m | 1 m | 1 m | 1 m | |
| - motor | 2 x 0.75 mm ² | 2 x 0.75 mm ² | 2 x 0.75 mm ² | 2 x 0.75 mm ² | |
| - FC/DC contacts | 6 x 0.75 mm ² | 6 x 0.75 mm ² | 6 x 0.75 mm ² | 6 x 0.75 mm ² | |
| Weight | 1.6 kg | 1.7 kg | 2.8 kg | 3.1 kg | |





Summary table of fire resistance properties of ISONE+ fire dampers

| Type of Fire damper | Thin plasterboard partition wall |
|--|--|
| Circular surface-mounted ISONE+ | El 90 S (CF 1h30) 500 Pa Ve (1hr or 2 hr wall) i ⇔ o |
| Rectangular surface-mounted ISONE+ | El 90 S (CF 1h30) 500 Pa Ve (1hr or 2 hr wall) i ⇔ o |
| Type of Fire damper | 110 mm concrete |
| ISONE+ circular FdP - EM | El 120 S (CF 2hr) 500 Pa Ve (wall) Ho (slab) i ↔ o |
| ISONE+ rectangular FdP - EM | El 120 S (CF 2hr) 500 Pa Ve (wall) Ho (slab) i ↔ o |
| ISONE+ rectangular EM - GM (beyond 800 x 600 mm) | EI 90 S (CF 1h30) 500 Pa Ve (wall) i ⇔ 0 Vane axis: horizontal |
| ISONE 1500 | El 120 S (CF 2hr) 1500 Pa Ve (wall) Ho (slab) up to 600 x 600 i ⇔ o Vane axis: horizontal |





Circular & rectangular surface-mounted ISONE+





Advantages

- Easy and cheap to install, no sealing or suspension elements required.
- On 70 mm plasterboard tiles.
- On lightweight plasterboard partitions.
- . Onto offset GEOSTAFF ducts.
- Airtight Class B from EN 1751.

FIELD OF APPLICATION

 Compartmentalisation of commercial premises (Public buildings, High rise buildings, commercial or industrial premises etc.).

DESCRIPTION

- El 60 S on CF 1h wall.
- El 90 S on plasterboard + rail wall 1hr30 or 2hr.
- El 120 S on offset GEOSTAFF duct.
- Consists of 2 metal sleeves on both sides of an assembly of refractory material.
- The refractory material is provided with holes to attach it to the metallic framework of a plasterboard partition.
- The upgradable mechanism box is positioned on a sleeve.

RANGE

- \bullet Surface-mounted Isone+ up to Ø 500 mm.
- Rectangular surface-mounted Isone+ up to 800 x 600 mm. See following pages.

AVAILABLE OPTIONS

- Mechanism equipment (See Page 128)
- Start and end of travel contact ((FCU1, DCU1).
- Electromagnetic trip 24/48 V on making (VDS 24/48 V) or breaking (VM 24/48 V) current.
- Electrical reset motor (EHOP 30s).
- Aeraulic and airtight connection
- Seals on circular connections.
- Flange for rectangular models.
- Customisable labelling

Name of the work site, customer, installation area, etc.

CIRCULAR ISONE+ surface-mounted PRESSURE DROP

| | | Speed in duct (m/s) | | | | | | | | | | |
|------|---------------------|---------------------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
| | 2 | 2 | 4 | | (| 6 | 8 | 8 | 1 | 0 | 1 | 2 |
| Ø D | Q | ΔP | Q | ΔP | Q | ΔP | Q | ΔP | Q | ΔP | Q | ΔP |
| (mm) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) |
| 100 | 57 | 3 | 113 | 10 | 170 | 23 | 226 | 40 | 283 | 63 | 339 | 90 |
| 125 | 88 | 2 | 177 | 8 | 265 | 18 | 353 | 32 | 442 | 50 | 530 | 72 |
| 160 | 145 | 3 | 290 | 10 | 434 | 23 | 579 | 40 | 724 | 63 | 869 | 90 |
| 200 | 226 | 2 | 452 | 7 | 679 | 16 | 905 | 28 | 1,131 | 44 | 1,357 | 63 |
| 250 | 353 | 1 | 707 | 5 | 1,060 | 11 | 1,414 | 20 | 1,767 | 31 | 2,121 | 45 |
| 315 | 561 | 1 | 1,122 | 3 | 1,683 | 7 | 2,244 | 12 | 2,806 | 19 | 3,367 | 27 |
| 355 | 713 | 4 | 1,425 | 14 | 2,138 | 32 | 2,851 | 56 | 3,563 | 88 | 4,276 | 126 |
| 400 | 905 | 3 | 1,810 | 12 | 2,714 | 27 | 3,619 | 48 | 4,524 | 75 | 5,429 | 108 |
| 450 | 1,145 | 3 | 2,290 | 11 | 3,435 | 25 | 4,580 | 44 | 5,726 | 69 | 6,871 | 99 |
| 500 | 1,414 | 2 | 2,827 | 7 | 4241 | 16 | 5,655 | 28 | 7,069 | 44 | 8,482 | 63 |

Pressure loss in Pa for a flow rate in m³/h or speed in m/s.

RECTANGULA ISONE+ surface-mounted PRESSURE DROP

| Height | | | | | | | Width X | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|
| Y | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 200 | 21 | 13 | 11 | 10 | 9 | 9 | 8 | 14 | 14 | - | - | - | - |
| 250 | 9 | 7 | 6 | 6 | 5 | 5 | 5 | 8 | 7 | 4 | 12 | 12 | - |
| 300 | 6 | 5 | 4 | 4 | 4 | 4 | 3 | 15 | 15 | 3 | 15 | 16 | 17 |
| 350 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 10 | 10 | 2 | 11 | 11 | 11 |
| 400 | 16 | 10 | 8 | 10 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 450 | - | 9 | 12 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 500 | - | 16 | 10 | 8 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| 550 | - | - | 10 | 7 | 6 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 |
| 600 | - | - | 9 | 7 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

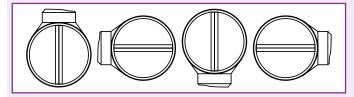
Pressure loss in Pa for a speed in duct of 4 m/s. For all other speeds V: ΔP (Pa) = ΔP (read) x V² / 16.

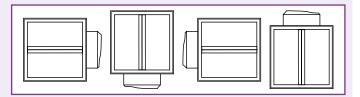


ISONE surface mounted fire damper



MECHANISM POSITIONING UNIMPORTANT





INSTALLATION PRINCIPLES

- Installation on plasterboard partitions with metallic rails. See page 122.
 Installation on plasterboard tiles. See page 128.
 Installation on offset ducts. See page 129.

- Aeraulic connection.
- The two metallic sleeves on the ISONE are both MALE.
- The sleeves should be attached without mechanical pressure and should enable perfect alignment of the ducts with the damper.
- The installation of the ISONE Ap requires no sealing, suspension elements or thermal protection.
- Quick & easy to install, validated for plasterboard partitions.





Rectangular or circular ISONE+ surface-mounted on light plasterboard partition wall - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1100

Advantages

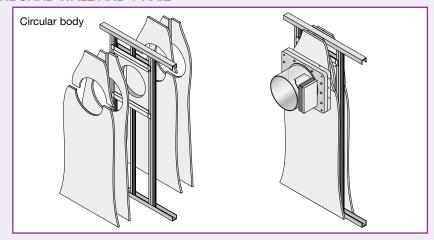
Installation advantages

- No grouting or suspension required.
- Removable.
- · Horizontal or vertical blade axis. Advantages of the mechanism
- Dual voltage 24/48 V.
- · Sufficient space to house fire safety control unit (CMSI) equipment.

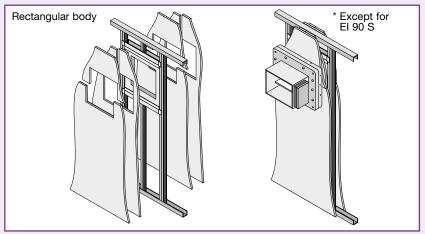
PRINCIPLE OF INSTALLATION ON PLASTERBOARD WALL AND + RAIL

- 1 hour fire-retardant partition walls
- Fire damper El 60 S 500 Pa.
- Insert rock wool insulation.
- Fix damper in place with screws through metal
- 90 min and 2 hour fire-retardant walls Fire damper El 90 S 500 Pa.
- Insert rock wool insulation.
- Fix damper in place with screws through metal frame.

Except for rectangular bodies*.



* To install an EI 90 S in an EI 120 S partition wall (2-hour fire damper), see installation instructions on page 125.





Rectangular or circular ISONE+ surface-mounted on light plasterboard partition wall - 500 Pa

INSTALLATION ON LIGHT PLASTERBOARD PARTITION WALL (EXCEPT FOR EI 90 S RECTANGULAR)

Dimensions of metal frame adapted to

To install an Isone+ surface-mounted fire damper on a plasterboard partition wall, you will need a frame of suitable dimensions. As the damper mounting screws will be screwed into this frame, it must be perfectly positioned to receive the damper.

Note: For the surface-mounted Isone+ 100, 125, 125 versions, the damper diameter is 160 mm.

| | Mechanism to side | | | | |
|---------------------------------|-------------------|--------|--|--|--|
| Orientation of ISONE+/ Ap | Y | | | | |
| W (mm) | X + 25 | Ø + 25 | | | |
| H (mm) | Y + 25 | Ø + 25 | | | |

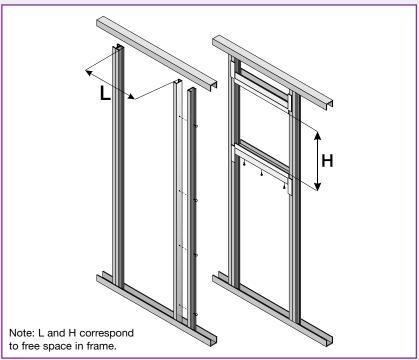
| | Mechanism underneath | | | | |
|---------------------------------|----------------------|--------|--|--|--|
| Orientation of ISONE+/ Ap | X | | | | |
| W (mm) | X + 25 | Ø + 25 | | | |
| H (mm) | Y + 25 | Ø + 25 | | | |

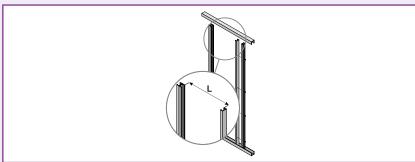
1. Construction of metal structure and frame

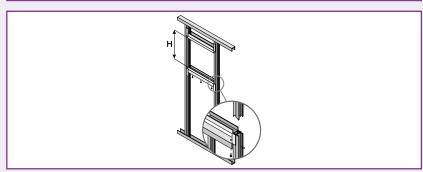
- Fix the rails to the floor and ceiling.
- Insert the double uprights side by side, respecting distance L (the uprights are screwed together approximately every metre).

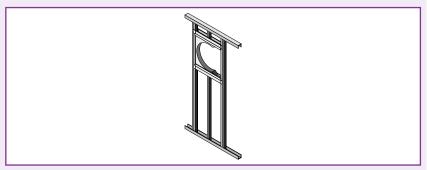
2. Installation of plasterboard and positioning of surface-mounted ISONE+

- Cut rail sections to create the top and bottom of the framework.
- Cut two rail sections of approximately L + 200 mm which will be folded and screwed to the double
- Screw two other rails of length L to the two previous rail sections.
- Centre and insert a single upright between the floor rail and the bottom of the frame, and another between the top of the frame and the ceiling rail.
- Fill any space between the fire damper and the metal frame created using rock wool with a theoretical mass of 80 kg/m³ (alpharock ROCKWOOL).











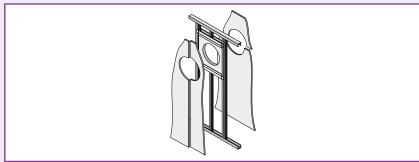


Rectangular or circular ISONE+ surface-mounted on light plasterboard partition wall - 500 Pa

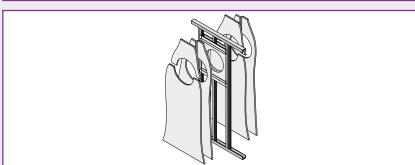
- 3. Installation of plasterboard and positioning of surface-mounted ISONE+

 Install the first (or only) piece of plasterboard.

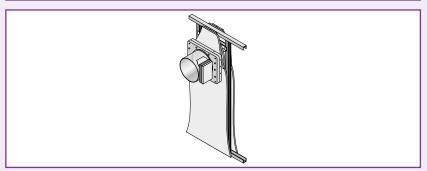
 Ensure board joints are not in the same place on
- each side of the partition wall.



- Put second piece of plasterboard in place.
- Ensure board joints are not in the same place on each side of the partition wall.
- Mount the boards with type TTPC 35 screws with a maximum spread of 300 mm, to all rails and



- \bullet Use the Ø 5 mm holes in the fire damper body to screw it to the metal framework.
- The screws should be sufficiently long to penetrate the framework.



For more details refer to the fire classification reports. The plasterboard partition wall should be assembled in accordance with manufacturer recommendations and instructions.

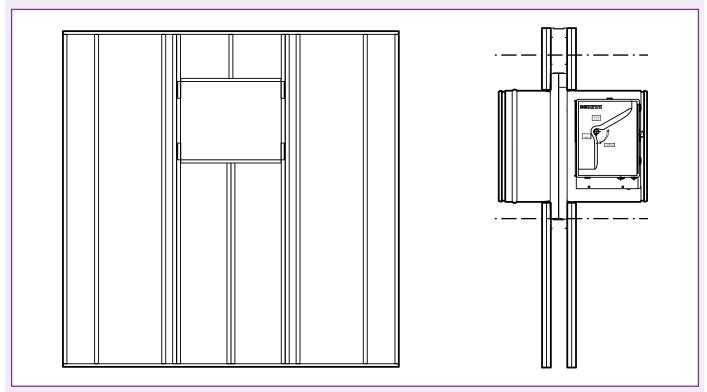




Rectangular or circular ISONE+ surface-mounted on light plasterboard partition wall - 500 Pa

SPECIFIC MOUNTING FOR RECTANGULAR ISONE+ EI 90 S

The fire damper should be positioned in the framework in accordance with the diagram below: inner dimensions of framework = outer dimensions of fire damper.



Note: this assembly does not require the use of mineral wool insulation or screws on the ISONE+ damper.

Note: This assembly is also appropriate for all other ISONE+/Ap units: circular and rectangular, El 60 S, El 90 S. It is the only one authorised for sizes of greater than 500×500 mm.





Circular and rectangular ISONE+ surface-mounted on a plaster brick wall - El 60 S - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1100 and 1101.

Advantages

Installation advantages

- Ideal in a hopper installation (only one side accessible).
- No grouting or suspension required.
- Horizontal or vertical blade axis.

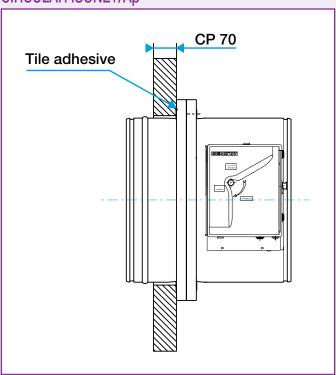
Advantages of the mechanism.

- Dual voltage 24/48 V.
- Sufficient space to house fire safety control unit (CMSI) equipment.

SURFACE-MOUNTED INSTALLATION ON PLASTER BRICK WALL

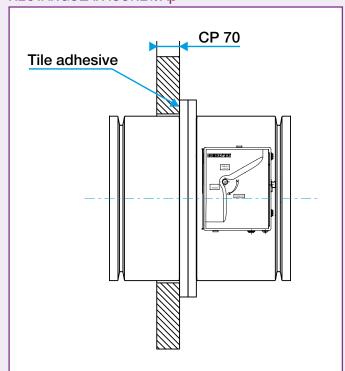
- Opening = nominal dimensions + 10 mm.
- Apply adhesive mortar to wall side of fire damper.
- Place the damper against the wall and anchor it in place using VBA screws. The opening through the wall should be free of adhesive.

CIRCULAR ISONE+/Ap



Reminder of codes: Circular ISONE+/Ap: 11043440 to 11043449 Rectangular ISONE+/Ap: 11043295.

RECTANGULAR ISONE+/Ap



Classification reports available on www.aldes.fr.





Circular and rectangular ISONE+/Ap offset from a GEOSTAFF fire damper duct.





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1100 and 1101.

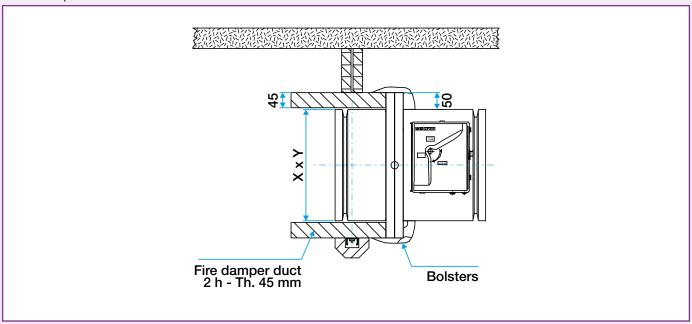
Advantages

- Simple and economic to install.
- No grouting required.
- Standard equipment only.
- Modular installation to adapt to site configuration.

OFFSET INSTALLATION OF FIRE DAMPER DUCT

ISONE+/Ap succeeded in fire resistance tests and reports are available for the two following assembly methods:

- Screwed and glued on GEOSTAFF brand 2-hour vertical duct fire damper.
- Offset and padded on branded horizontal duct.



Reminder of codes: Circular ISONE+/Ap: 11043440 to 11043449 Rectangular ISONE+/Ap: 11043295.

Classification reports available on www.aldes.fr.

aldes

ISONE surface mounted fire damper



Circular ISONE+/Ap



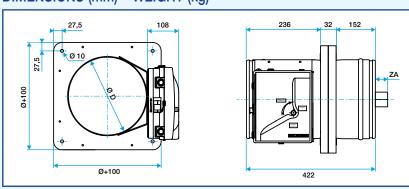
Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1100.

Advantages

- Ideal in a hopper installation (only one side accessible).
- Simple and cheap to install, authorised for lightweight partitions and horizontal GEOSTAFF ducts.
- No grouting or suspension elements required.
- Horizontal or vertical blade axis.
- Airtight Class B from EN 1751.

DIMENSIONS (mm) - WEIGHT (kg)



| Ø D | Overall W x H | Excess blade ZA | Weight |
|-----|------------------|--------------------|--------|
| 100 | 260x260 | - | 8 |
| 125 | 260x260 | - | 8 |
| 160 | 260x260 | - | 7.5 |
| 200 | 300x300 | - | 9.5 |
| 250 | 350x350 | - | 10.5 |
| 315 | 415x415 | - | 11.5 |
| 355 | 455x455 | 10 | 12.5 |
| 400 | 500x500 | 20 | 16 |
| 450 | 550x550 | 40 | 17.5 |
| 500 | 600x600 | 70 | 19.5 |

RANGE with choice of options

Thermal fuse 70°C included.

For \emptyset < 160 mm, 2 RCC reductions are supplied.

| Designation | Code |
|----------------|----------|
| ISONE+/Ap D100 | 11043440 |
| ISONE+/Ap D125 | 11043441 |
| ISONE+/Ap D160 | 11043442 |
| ISONE+/Ap D200 | 11043443 |
| ISONE+/Ap D250 | 11043444 |
| ISONE+/Ap D315 | 11043445 |
| ISONE+/Ap D355 | 11043446 |
| ISONE+/Ap D400 | 11043447 |
| ISONE+/Ap D450 | 11043448 |
| ISONE+/Ap D500 | 11043449 |
| | |

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Select equipment | FTE Option | 24V Option | 48V Option |
|--|------------|------------|------------|
| (indicate trip voltage in order for factory adjustment and testing) | Code | Code | Code |
| FCU1 open position contact for FTE | OPT43301 | | |
| DCU1 closed position contact for FTE | OPT43302 | | |
| FCU1 + DCU1 open/closed position contacts for FTE | OPT43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48V + FCU1 contact | | OPT43304 | OPT43306 |
| VDS "Power emission" electromagnetic trip device 24/48V + FCU1 + DCU1 contacts | | OPT43305 | OPT43307 |
| VM "Power cut-off" electromagnetic trip device 24/48V + FCU1 contact | | OPT43308 | OPT43310 |
| VM "Power cut-off" electromagnetic trip device 24/48V + FCU1 + DCU1 contacts | | OPT43309 | OPT43311 |
| VDS trip device 24/48V + FCU1 contact + EHOP30s reset motor | | OPT43312 | OPT43314 |
| VDS trip device 24/48V + FCU1 + DCU1 contacts + EHOP30s reset motor | | OPT43313 | OPT43315 |
| VM trip device 24/48V + FCU1 contact + EHOP30s reset motor | | OPT43316 | OPT43318 |
| VM trip device 24/48V + FCU1 + DCU1 contacts + EHOP30s reset motor | | OPT43317 | OPT43319 |

| Designation | Code | | |
|---|----------|--|--|
| FCU2 + DCU2 open/closed position contacts | OPT43320 | | |
| | | | |
| Designation | Code | | |







Rectangular surface-mounted ISONE+



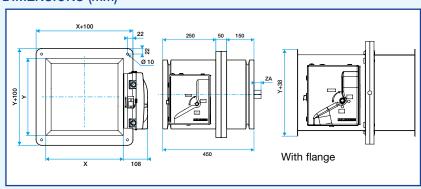
Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1100.

Advantages

- Ideal in a hopper installation (only one side accessible).
- Simple and cheap to install, authorised for lightweight partitions and horizontal GEOSTAFF ducts.
- No grouting or suspension elements required.
- Horizontal or vertical blade axis.
- Airtight Class B from EN 1751.

DIMENSIONS (mm)



ZA: fin movement.

| Υ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ZA | 0 | 0 | 0 | 0 | 17 | 42 | 47 | 72 | 97 | 122 | 147 | 172 | 197 |

WEIGHT (KG) & RANGE with selection of options Thermal fuse 70°C included.

| Code | | | | | | 11043295 | - El 60 S - | EI 90 S* | | | | | |
|--------|-----|---------|-----|-----|-----|----------|-------------|----------|-----|-----|-----|-----|-----|
| Height | | Width X | | | | | | | | | | | |
| Υ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 200 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 20 | 21 | - | - | - | - |
| 250 | 12 | 13 | 16 | 17 | 18 | 19 | 20 | 22 | 23 | 24 | 25 | 27 | - |
| 300 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 23 | 25 | 27 | 28 | 29 |
| 350 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | 24 | 25 | 27 | 28 | 29 | 31 |
| 400 | 15 | 17 | 18 | 20 | 21 | 23 | 24 | 25 | 27 | 28 | 29 | 31 | 32 |
| 450 | - | 18 | 20 | 21 | 23 | 24 | 25 | 27 | 28 | 29 | 31 | 32 | 33 |
| 500 | - | 19 | 21 | 22 | 24 | 25 | 27 | 28 | 29 | 31 | 32 | 33 | 35 |
| 550 | - | - | 22 | 24 | 25 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | 37 |
| 600 | - | - | 23 | 25 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | 37 | 38 |

^{*} Installed within a frame (See Page 125).

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24V Option Code | 48V Option Code |
|--|--------------------|--------------------|--------------------|
| FCU1 open position contact for FTE | OPT43301 | | |
| DCU1 closed position contact for FTE | OPT43302 | | |
| FCU1 + DCU1 open/closed position contacts for FTE | OPT43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48V + FCU1 contact | | OPT43304 | OPT43306 |
| VDS "Power emission" electromagnetic trip device 24/48V + FCU1 + DCU1 contacts | | OPT43305 | OPT43307 |
| VM "Power cut-off" electromagnetic trip device 24/48V + FCU1 contact | | OPT43308 | OPT43310 |
| VM "Power cut-off" electromagnetic trip device 24/48V + FCU1 + DCU1 contacts | | OPT43309 | OPT43311 |
| VDS trip device 24/48V + FCU1 contact + EHOP30s reset motor | | OPT43312 | OPT43314 |
| VDS trip device 24/48V + FCU1 + DCU1 contacts + EHOP30s reset motor | | OPT43313 | OPT43315 |
| VM trip device 24/48V + FCU1 contact + EHOP30s reset motor | | OPT43316 | OPT43318 |
| VM trip device 24/48V + FCU1 + DCU1 contacts + EHOP30s reset motor | | OPT43317 | OPT43319 |

| Designation | Code |
|---|----------|
| FCU2 + DCU2 open/closed position contacts | OPT43320 |
| Connection flange | - |



Ides Compulsor Protection Incendie n°9



Circular ISONE+ - flush-mounted



ISONE+ EM



ISONE+ FdP

Advantages

- Ø160 mm body
- · Authorised for installation in walls and floors.
- · Traditional grouting with mortar.
- Double range up to Ø 315 mm:
- FdP = low pressure loss,
- EM = minimum size.
- Airtight Class B from EN 1751.

FIELD OF APPLICATION

 Compartmentalisation of commercial premises (Public buildings, High rise buildings, commercial or industrial premises etc.).

DESCRIPTION

- Consists of 2 metal sleeves on both sides of an assembly of refractory material.
- The upgradable mechanism box is positioned on a sleeve. This box is set back from the blade itself to avoid it being sealed into the partition during installation of the damper.
- CIRCULAR FLUSH-MOUNTED ISONE+ features 2 ranges:
- ISONE+ FdP: designed to minimise the pressure losses created by the airflow passing through,
- ISONE+ EM: presents a minimum overall dimension.

INSTALLATION

- Flush-mounted in a 110 mm concrete wall.
- Embedded through a concrete tile no specific fixings or hangings required for installation.
- Traditional grouting with mortar.
- The mechanism box is fitted flush against the wall or tile.
- The aeraulic connection must not apply stress on the damper.

RANGE WITH CHOICE OF OPTIONS

- ISONE+ FdP up to Ø 315 mm.
- \bullet ISONE+ EM up to Ø 1,000 mm.

See following pages.

AVAILABLE OPTIONS

- Mechanism equipment (see page 134 or page 135).
- Aeraulic and airtight connection Airtight seals.
- Customisable labelling

Name of the work site, customer, installation area, etc.

ISONE+ FdP PRESSURE LOSSES

| | | Speed in duct (m/s) | | | | | | | | | | |
|------|---------------------|---------------------|---------------------|-------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
| | 2 | | 4 | 4 6 8 | | | 10 | | 12 | | | |
| ØD | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ |
| (mm) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) |
| 100 | 57 | 3 | 113 | 10 | 170 | 23 | 226 | 40 | 283 | 63 | 339 | 90 |
| 125 | 88 | 2 | 177 | 8 | 265 | 18 | 353 | 32 | 442 | 50 | 530 | 72 |
| 160 | 145 | 3 | 290 | 10 | 434 | 23 | 579 | 40 | 724 | 63 | 869 | 90 |
| 200 | 226 | 2 | 452 | 7 | 679 | 16 | 905 | 28 | 1131 | 44 | 1357 | 63 |
| 250 | 353 | 1 | 707 | 5 | 1060 | 11 | 1414 | 20 | 1767 | 31 | 2121 | 45 |
| 315 | 561 | 1 | 1122 | 5 | 1683 | 11 | 2244 | 20 | 2806 | 31 | 3367 | 45 |

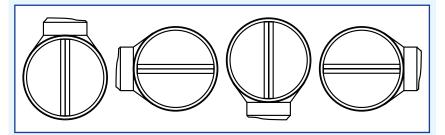
Pressure loss in Pa for a flow rate in m³/h or a speed in m/s.

ISONE+ EM PRESSURE LOSSES

| | | Speed in duct (m/s) | | | | | | | | | | |
|------|---------------------|---------------------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
| | 2 | | 4 | | 6 8 10 | |) | 12 | | | | |
| Ø D | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ |
| (mm) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) |
| 100 | 57 | 5 | 113 | 19 | 170 | 43 | 226 | 76 | 283 | 119 | 339 | 171 |
| 125 | 88 | 8 | 177 | 31 | 265 | 70 | 353 | 124 | 442 | - | 530 | - |
| 160 | 145 | 21 | 290 | 85 | 434 | - | 579 | - | 724 | - | 869 | - |
| 200 | 226 | 9 | 452 | 34 | 679 | 77 | 905 | - | 1131 | - | 1357 | - |
| 250 | 353 | 6 | 707 | 24 | 1060 | 54 | 1414 | 96 | 1767 | - | 2121 | - |
| 315 | 561 | 7 | 1122 | 27 | 1683 | 61 | 2244 | 108 | 2806 | - | 3367 | - |
| 355 | 713 | 5 | 1425 | 21 | 2138 | 47 | 2851 | 84 | 3563 | 131 | 4276 | - |
| 400 | 905 | 4 | 1810 | 16 | 2714 | 36 | 3619 | 64 | 4524 | 100 | 5429 | - |
| 450 | 1145 | 4 | 2290 | 14 | 3435 | 32 | 4580 | 56 | 5726 | 88 | 6871 | 126 |
| 500 | 1414 | 3 | 2827 | 11 | 4241 | 25 | 5655 | 44 | 7069 | 69 | 8482 | 99 |

Pressure loss in Pa for a flow rate in m³/h or a speed in m/s.

MECHANISM POSITIONING UNIMPORTANT







Circular ISONE+ EM (minimum size) and FdP (low pressure loss) flush-mounted in concrete wall - El 120 S - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1096 and 1098.

Advantages

Installation advantages

- Standard economic mortar.
- Unsealed mechanism.
- Horizontal or vertical blade axis.

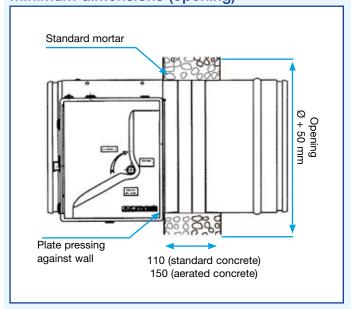
Advantages of the mechanism

- Dual voltage 24/48 V.
- Sufficient space to house fire safety control unit (CMSI) equipment.

CONCRETE 110 MM

- Opening according to diagram.
- · Grouting using standard mortar.

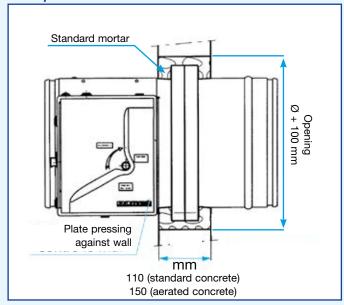
CIRCULAR ISONE+ EM: Minimum dimensions (opening)

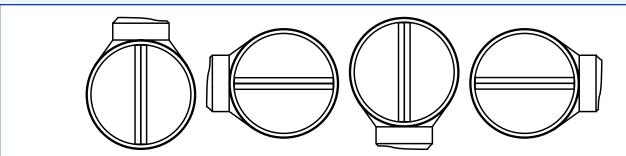


AERATED CONCRETE 150 mm (Siporex, Xella, Ytong, etc.)

- Opening according to diagram.
- Grouting using mortar for aerated concrete.

CIRCULAR ISONE+ FDP: Low pressure loss





CE certificates and classification reports available on www.aldes.fr.



ISONE **circular** fire damper



Circular ISONE+ EM (minimum size) and FdP (low pressure loss) flush-mounted in concrete slab - El 120 S - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1096 and 1098.

Advantages

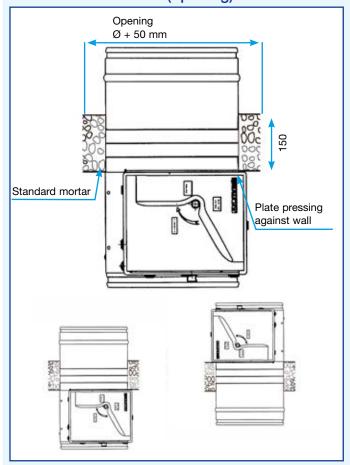
Installation advantages

- Simply sealed into place, no support necessary.
- Mechanism above or below slab.
 Advantages of the mechanism
- Dual voltage 24/48 V.
- Sufficient space to house fire safety control unit (CMSI) equipment.

CONCRETE 150 MM

- Opening according to diagram.
- · Grouting using standard mortar.

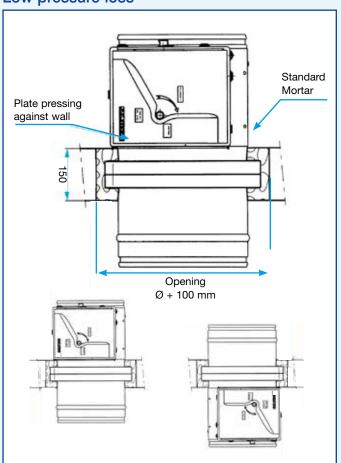
CIRCULAR ISONE+ EM: Minimum dimensions (opening)



AERATED CONCRETE 150 mm (Siporex, Xella, Ytong, etc.)

- Opening according to diagram.
- Grouting using mortar for aerated concrete.

CIRCULAR ISONE+ FDP: Low pressure loss



CE certificates and classification reports available on www.aldes.fr.





Circular ISONE+ EM and FdP flush-mounted in plaster brick partition wall - El 90 S - 500 Pa or El 120 S - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1096 and 1098.

Advantages

Installation advantages

- Simple to mount.
 Offset mechanism = simplified grouting.

- Advantages of the mechanism

 Dual voltage 24/48 V.

 Sufficient space to house fire safety control unit (CMSI) equipment.

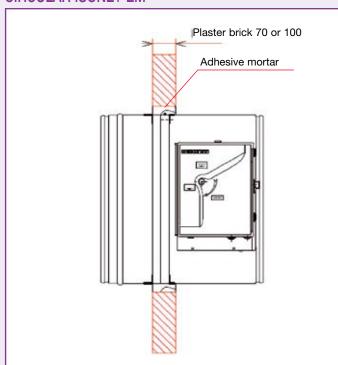
FLUSH-MOUNTED INSTALLATION IN PLASTER BRICK WALL 70 MM OR 100 MM

• Opening: $EM = \emptyset + 50 \text{ mm} - FdP = \emptyset + 100 \text{ mm}$.

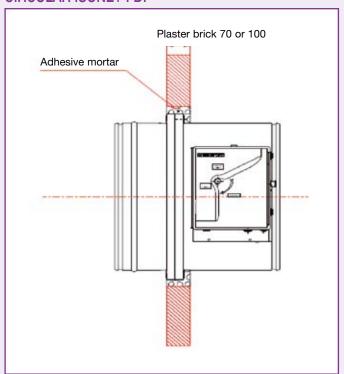
FdP

- Offset mechanism, push mechanism against wall.
- Standard adhesive mortar.
- El 90 S on 70 mm plaster blocks
- El 120 S on 100 mm plaster blocks.

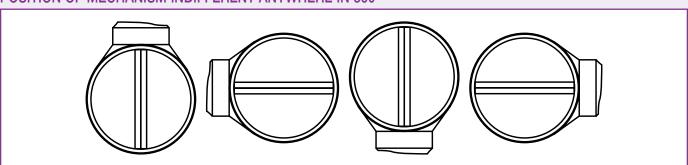
CIRCULAR ISONE+ EM



CIRCULAR ISONE+ FDP



POSITION OF MECHANISM INDIFFERENT ANYWHERE IN 360°



CE certificates and classification reports available on www.aldes.fr.





Circular flush-mounted ISONE+ EUROPE FdP: low pressure loss



ISONE+ FdP

Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1098

Advantages

- Ø160 mm body.
- Reduced pressure losses.
- Embedded into slab no fixings or hangings.
- Horizontal or vertical blade axis.
- Airtight Class B from EN
 1751

FIRE PROTECTION RATING

- El 120 S 500 Pa on 150mm concrete slabs and 150mm cellular concrete.
- El 90 S on 70mm plaster blocks.
- El 120 S on 100 mm plaster blocks.

INSTALLATION

- Embedded in a 100mm vertical concrete wall.
- Embedded through a concrete slab no fixings or hangings.
- Traditional grouting with mortar.
- Offset mechanism on the wall or slab.

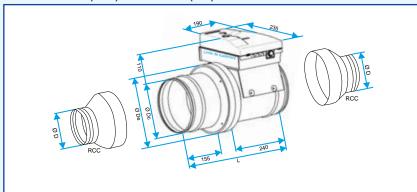
RANGE WITH CHOICE OF OPTIONS

Thermal fuse 70°C included.

| Designation | Code |
|------------------------------|----------|
| ISONE+ EUROPE EIS FDP Ø 100* | 11043430 |
| ISONE+ EUROPE EIS FDP Ø 125* | 11043431 |
| ISONE+ EUROPE EIS FDP Ø 160 | 11043432 |
| ISONE+ EUROPE EIS FDP Ø 200 | 11043433 |
| ISONE+ EUROPE EIS FDP Ø 250 | 11043434 |
| ISONE+ EUROPE EIS FDP Ø 315 | 11043435 |

^{*} From a body of Ø 160 mm

DIMENSIONS (MM) - WEIGHT (KG)



| ØD | Ø opening | L | Ø Dc | Ø Overall | Weight |
|-----|-----------|------|------|-----------|--------|
| 100 | 210 | 537* | 160 | 200 | 7 |
| 125 | 210 | 422 | 160 | 200 | 7 |
| 160 | 210 | 422 | 160 | 200 | 7 |
| 200 | 260 | 422 | 200 | 250 | 8 |
| 250 | 310 | 422 | 250 | 300 | 9 |
| 315 | 375 | 440 | 315 | 365 | 10.5 |

^{*} Total length including the 2 adapted reducers.

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Select equipment | FTE Option | 24 V Option | 48 V Option | | |
|---|------------|-------------|-------------|--|--|
| (indicate trip voltage in order for factory adjustment and testing) | Code | Code | Code | | |
| FCU1 open position for "FTE" | 43301 | | | | |
| DCU1 closed position contact for "FTE" | 43302 | | | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 | | |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 | | |
| Designation | | Code | | | |
| FCU1 open position for " VDS or VM or EHOP" | | 43337 | | | |
| FCU1 + DCU1 open/closed position for "VDS or VM or EHOP" | | 43338 | | | |
| EHOP 30S ISONE | | 43335 | | | |
| Protective Cover | | 43336 | | | |
| Airtight seals | | - | | | |





Circular flush-mounted ISONE+ EUROPE EM: minimum dimensions



Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1096

Advantages

- Ø160 mm body
- Minimum dimensions.
- Embedded into slab no fixings or hangings.
- Horizontal or vertical blade axis.
- Airtight Class B from EN
 1751

FIRE PROTECTION RATING

- \bullet El 120 S 500 Pa in 150mm concrete slab and 150mm cellular concrete.
- El 90 S on 70mm plaster blocks, El 120 S on 100 mm plaster blocks.

INSTALLATION

- Embedded in a 100mm vertical concrete wall.
- Embedded through a concrete slab no fixings or hangings.
- Traditional grouting with mortar.
- Offset mechanism on the wall or slab.

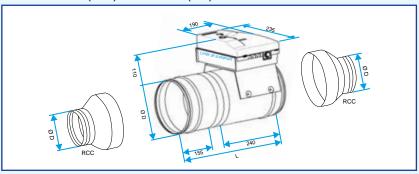
RANGE WITH CHOICE OF OPTIONS

70°C thermal fuse included.

| Designation | Code |
|-----------------------------|----------|
| ISONE+ EUROPE EIS EM Ø 100* | 11043417 |
| ISONE+ EUROPE EIS EM Ø 125* | 11043418 |
| ISONE+ EUROPE EIS EM Ø 160 | 11043419 |
| ISONE+ EUROPE EIS EM Ø 200 | 11043420 |
| ISONE+ EUROPE EIS EM Ø 250 | 11043421 |
| ISONE+ EUROPE EIS EM Ø 315 | 11043422 |
| ISONE+ EUROPE EM Ø 355 | 11043386 |
| ISONE+ EUROPE EM Ø 400 | 11043387 |
| ISONE+ EUROPE EM Ø 450 | 11043388 |
| ISONE+ EUROPE EM Ø 500 | 11043389 |
| ISONE+ EUROPE EM Ø 560 | 11043390 |
| ISONE+ EUROPE EM Ø 630 | 11043391 |
| ISONE+ EUROPE EM Ø 710 | 11043392 |
| ISONE+ EUROPE EM Ø 800 | 11043393 |
| ISONE+ EUROPE EM Ø 900 | 11043394 |
| ISONE+ EUROPE EM Ø 1000 | 11043395 |

^{*} From a body of Ø 160 mm

DIMENSIONS (MM) - WEIGHT (KG)



| ØD | Ø opening | L | Ø D | ZA | ZB | Weight |
|-------|---------------|------|-------------|-----|-----|--------|
| 100 | 180 | 537* | 160 | - | - | 6.5 |
| 125 | 180 | 532* | 160 | - | - | 6.5 |
| 160 | 180 | 422 | 160 | - | - | 6.5 |
| 200 | 220 | 422 | 200 | - | - | 7.5 |
| 250 | 270 | 422 | 250 | - | - | 8 |
| 315 | 335 | 440 | 315 | - | - | 10 |
| 355 | 375 | 440 | 355 | - | - | 11.5 |
| 400 | 450 | 440 | 400 | - | - | 15 |
| 450 | 500 | 440 | 450 | 16 | - | 16.5 |
| 500 | 550 | 440 | 500 | 40 | - | 19 |
| 560 | 650x650** | 550 | 600x600 | 43 | - | 33 |
| 630 | 720x720** | 550 | 670x670 | 76 | - | 38 |
| 710 | 800x800** | 550 | 750x750 | 114 | 14 | 45 |
| 800 | 890x890** | 550 | 840x840 | 165 | 65 | 55 |
| 900 | 990x990** | 550 | 940x940 | 215 | 115 | 66 |
| 1,000 | 1,090x1,090** | 550 | 1,040x1,040 | 265 | 165 | 79 |

^{*} Total length including the 2 adapted reducers.

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Onoose mechanism equipment from the table below. | | | |
|--|--------------------|---------------------|---------------------|
| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24 V Option Code | 48 V Option Code |
| FCU1 open position for "FTE" | 43301 | | |
| DCU1 closed position contact for "FTE" | 43302 | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 |

| Designation | Code |
|--|-------|
| FCU1 open position for " VDS or VM or EHOP" | 43337 |
| FCU1 + DCU1 open/closed position for "VDS or VM or EHOP" | 43338 |
| EHOP 30S ISONE | 43335 |
| Protective Cover | 43336 |
| Airtight seals | - |



^{**} EM rectangular body fitted with rings for connection to a circular ventilation network.

ISONE with a BF/BLF Mechanism

ISONE+ circular fire damper with a BF/BLF Mechanism



DESCRIPTION

 All ISONE+ fire dampers can house the BF/BLF mechanism equipped with its 72° fuse (BAE 72), and a closed (FC) contact and open (DC) contact.

FIRE PROTECTION RATING EN 15650

- EI 120 S 500 Pa in 150 mm concrete slab and 150 mm cellular concrete.
- El 90 S Pa on 70mm plaster blocks, El 120 S on 100mm plaster bocks.

INSTALLATION

• Identical to ISONE with an Aldes mechanism.

RANGE WITH CHOICE OF OPTIONS

• ISONE+ Ø FdP: low pressure loss

| Description | Code |
|------------------------------|----------|
| ISONE+ EUROPE-EIS-D100-FDP-M | 11043460 |
| ISONE+ EUROPE-EIS-D125-FDP-M | 11043461 |
| ISONE+ EUROPE-EIS-D160-FDP-M | 11043462 |
| ISONE+ EUROPE-EIS-D200-FDP-M | 11043463 |
| ISONE+ EUROPE-EIS-D250-FDP-M | 11043464 |
| ISONE+ EUROPE-EIS-D315-FDP-M | 11043465 |

• ISONE+ Ø EM: minimum space requirement

| 1001121 2 Ziminimini opaco roganon | |
|------------------------------------|----------|
| Description | Code |
| ISONE+ EUROPE-EIS-D100-EM-M | 11043470 |
| ISONE+ EUROPE-EIS-D125-EM-M | 11043471 |
| ISONE+ EUROPE-EIS-D160-EM-M | 11043472 |
| ISONE+ EUROPE-EIS-D200-EM-M | 11043473 |
| ISONE+ EUROPE-EIS-D250-EM-M | 11043474 |
| ISONE+ EUROPE-EIS-D315-EM-M | 11043475 |
| ISONE+ EUROPE-D355 EM-M | 11043476 |
| ISONE+ EUROPE-D400 EM-M | 11043477 |
| ISONE+ EUROPE-D450 EM-M | 11043478 |
| ISONE+ EUROPE-D500 EM-M | 11043479 |
| ISONE+ EUROPE-D560 EM-M | 11043480 |
| ISONE+ EUROPE-D630 EM-M | 11043481 |
| ISONE+ EUROPE-D710 EM-M | 11043482 |
| ISONE+ EUROPE-Ø800-EM-M | 11043483 |
| ISONE+ EUROPE-Ø900-EM-M | 11043484 |
| ISONE+ EUROPE-Ø1000-EM-M | 11043485 |
| | |

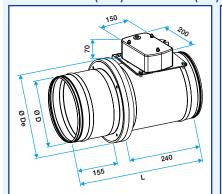
AVAILABLE OPTIONS

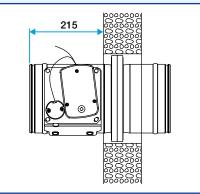
| Description | Code |
|--------------------------------|----------|
| MECHANISM BLF24V-BAE72-FC-DC | OPT43326 |
| MECHANISM BLF 230V-BAE72-FC-DC | OPT43327 |
| MECHANISM BF 24V-BAE72-FC-DC | OPT43328 |
| MECHANISM BF 230V-BAE72-FC-DC | OPT43329 |
| Airtight seals | - |

All mechanisms are equipped with:

- FC/DC signalling contacts (open/closed position),
- A 72° fuse.

DIMENSIONS (MM) - WEIGHT (KG)





Dimensions \emptyset D, \emptyset De, L identical to Isones with an Aldes mechanism.

TECHNICAL DETAILS

| 4 mechanism | BI | LF | В | F |
|---|------------------------------------|--------------------------|------------------------------------|--------------------------|
| models | 24 V | 230 V | 24 V | 230 V |
| Rated Voltage | AC 24 V 50 / 60 Hz - DC 24 V | AC 230 V 50 / 60 Hz | AC 24 V 50 / 60 Hz - DC 24 V | AC 230 V 50 / 60 Hz |
| Consumption (resetting) | 5 W | 6 W | 7 W | 8 W |
| Permanent Consumption (Excl. Resetting) | 2.5 W | 3 W | 2 W | 3 W |
| Resetting time | 40 to 75 s | 40 to 75 s | 140 s | 140 s |
| Cable length: | 1 m | 1 m | 1 m | 1 m |
| - motor | 2 x 0.75 mm ² | 2 x 0.75 mm ² | 2 x 0.75 mm ² | 2 x 0.75 mm ² |
| - FC/DC contacts | 6 x 0.75 mm ² | 6 x 0.75 mm ² | 6 x 0.75 mm ² | 6 x 0.75 mm ² |
| Weight | 1.6 kg | 1.7 kg | 2.8 kg | 3.1 kg |

- Degree of protection: IP 54.
- Temperature in use: -40° to +50° C

ELECTRICAL CONNECTIONS: see page 118.





Rectangular flush-mounted ISONE+





Isone FdP

Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1099

Advantages

- Authorised for installation in walls and floors.
- Offset wall-mounted mechanism for traditional grouting with mortar.
- Double range:
- FdP = low pressure loss,
- EM = minimum size.
- Airtight Class B from EN 1751.

FIELD OF APPLICATION

 Compartmentalisation of commercial premises (Public buildings, High rise buildings, commercial or industrial premises etc.).

DESCRIPTION

- Consists of 2 metal sleeves on both sides of an assembly of refractory material.
- The upgradable mechanism box is positioned on a sleeve. This box is set back from the blade itself to avoid it being sealed into the partition during installation of the damper.

INSTALLATION

- Flush-mounted in a 110 mm concrete wall.
- Embedded through a concrete tile no specific fixings or hangings required for installation.
- Traditional grouting with mortar.
- The mechanism box is fitted flush against the wall or tile.
- The aeraulic connection must not apply stress on the damper.

RANGE

- Embedded rectangular Isone featuring 2 ranges:
- Isone FdP: designed to minimise pressure losses created by the airflow passing through,
- Isone EM: presents a minimum overall dimension.

AVAILABLE OPTIONS

- Mechanism equipment: see page 141, 143 and 144.
- Customisable labelling: Name of the work site, customer, installation area, etc.
- Connection flanges.

ACCESSORIES

Rings for oblong connections.

ISONE FdP PRESSURE LOSSES

The values given below are pressure losses in Pa, for air velocity at 4 m/s.

| Hoight V | | | | | | | Width X | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|
| Height Y | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 200 | 21 | 13 | 18 | 17 | 16 | 15 | 15 | 14 | 14 | - | - | - | - |
| 250 | 9 | 7 | 10 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 12 | 12 | - |
| 300 | 8 | 7 | 7 | 6 | 11 | 14 | 14 | 15 | 15 | 14 | 15 | 16 | 17 |
| 350 | 6 | 5 | 5 | 5 | 12 | 11 | 11 | 10 | 10 | 11 | 11 | 11 | 11 |
| 400 | 16 | 10 | 8 | 10 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 450 | - | 9 | 12 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 500 | - | 16 | 10 | 8 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| 550 | - | - | 10 | 7 | 6 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 |
| 600 | - | - | 9 | 7 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

Pressure loss in Pa for a speed in duct of 4 m/s.

For all other speeds V: ΔP (Pa) = ΔP (read) x $V^2/16$.

ISONE EM PRESSURE LOSSES

The values given below are pressure losses in Pa, for air velocity at 4 m/s.

| Height | Width X | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Υ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,500 |
| 200 | 129 | 56 | 59 | 54 | 50 | 47 | 45 | 44 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | 46 | 68 | 36 | 33 | 30 | 29 | 28 | 27 | 26 | 26 | 50 | 48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | 37 | 30 | 27 | 24 | 50 | 49 | 48 | 48 | 53 | 54 | 55 | 56 | 58 | 60 | 61 | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | 31 | 25 | 22 | 20 | 36 | 35 | 34 | 33 | 36 | 36 | 36 | 36 | 36 | 37 | 38 | 38 | 39 | 48 | - | - | - | - | - | - | - | - | - |
| 400 | 77 | 49 | 38 | 33 | 30 | 28 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 28 | 28 | 33 | 33 | 37 | 38 | - | - | - | - | - | - |
| 450 | - | 46 | 35 | 30 | 27 | 25 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 25 | 25 | 28 | 28 | 28 | 29 | 29 | 29 | - | - | - |
| 500 | - | 45 | 33 | 28 | 24 | 22 | 21 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 | 21 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 |
| 550 | - | - | 32 | 26 | 23 | 21 | 20 | 19 | 18 | 17 | 17 | 17 | 17 | 16 | 18 | 18 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 600 | - | - | 32 | 26 | 22 | 20 | 18 | 17 | 17 | 16 | 16 | 15 | 15 | 16 | 16 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 18 |
| 650 | - | - | - | 25 | 22 | 19 | 18 | 17 | 16 | 15 | 15 | 14 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | - |
| 700 | - | - | - | 25 | 21 | 19 | 17 | 16 | 15 | 15 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - |
| 750 | _ | - | - | - | 21 | 19 | 17 | 16 | 15 | 14 | 15 | 14 | 15 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | - | - | - |
| 800 | - | - | - | - | 24 | 20 | 18 | 17 | 16 | 15 | 14 | 15 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | - | - | - | - |
| 850 | | - | - | - | - | 20 | 18 | 17 | 15 | 15 | 15 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | - | - | - | - | - |
| 900 | - | - | - | - | - | 20 | 18 | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | - | - | - | - | - | - |
| 950 | - | - | - | - | - | - | 18 | 16 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | | - | - | - | _ | - | _ |
| 1,000 | - | - | - | - | - | - | 18 | 16 | 15 | 14 | 13 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | - | - | - | - | - | - | - | |
| 1,050 | - | - | - | - | - | - | | 16 | 15 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | - | - | | - | - | - | - | - | |

Pressure loss in Pa for a speed in duct of 4 m/s.

For all other speeds V: ΔP (Pa) = ΔP (read) x V² / 16.



Rectangular ISONE Fire damper



Rectangular ISONE+ flush-mounted in concrete wall - El 120 S - 500 Pa





Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1097 and 1099.

Advantages

- Installation advantages
- · Standard economic mortar.
- · Unsealed mechanism.
- · Horizontal or vertical blade axis. Advantages of the mechanism
- Dual voltage 24/48 V.
- · Sufficient space to house fire safety control unit (CMSI) equipment.

INSTALLATION IN CONCRETE WALL

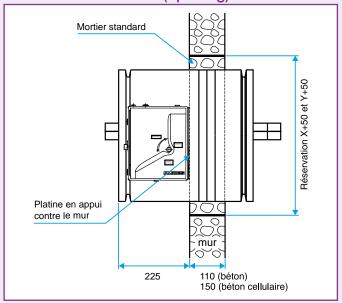
Concrete 110 mm or aerated concrete 150 mm (Siporex, Xella, Ytong... • Opening according to diagram.

- · Sealed in place using standard mortar or aerated concrete mortar

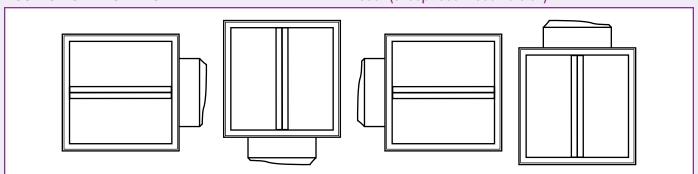
RECTANGULAR ISONE+ FDP: Low pressure loss

Mortier standard Réservation X+100 et Y+100 Platine en appui contre le mur mur 225 110 (béton) 150 (béton cellulaire)

RECTANGULAR ISONE+ EM: Minimum dimensions (opening)



POSITION OF MECHANISM INDIFFERENT ANYWHERE IN 360° (except 800 x 600 version)



CE certificates and classification reports available on www.aldes.fr.



Rectangular ISONE Fire damper



Rectangular ISONE+ EM and FdP flush-mounted in concrete slab - El 120 S - 500 Pa





Isone FdP

Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1097 and 1099.

Advantages

Installation advantages

- · Simply sealed into place, no support necessary.
- · Mechanism above or below slab.

Advantages of the mechanism

- Dual voltage 24/48 V.
- Sufficient space to house fire safety control unit (CMSI) equipment.

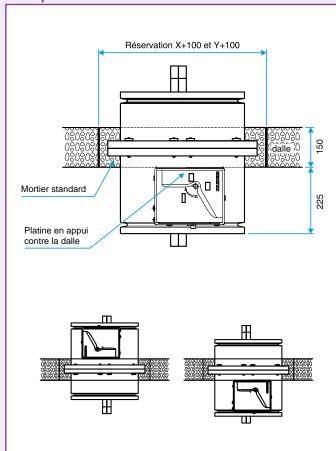
INSTALLATION IN CONCRETE SLAB

Concrete 110 mm or aerated concrete 150 mm (Siporex, Xella, Ytong... • Opening according to diagram.

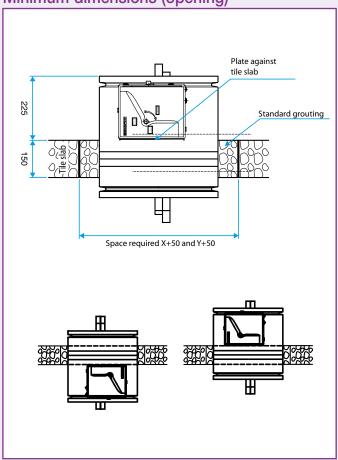
- Sealed in place using standard mortar or aerated concrete mortar

RECTANGULAR ISONE+ FDP:

Low pressure loss



RECTANGULAR ISONE+ EM: Minimum dimensions (opening)



CE certificates and classification reports available on www.aldes.fr.

Rectangular ISONE Fire damper



Rectangular ISONE+ EM and FdP flush-mounted in plaster brick partition wall - EI 90 S - 500 Pa or EI 120 S - 500 Pa





Isone FdP

Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1097 and 1099.

Advantages

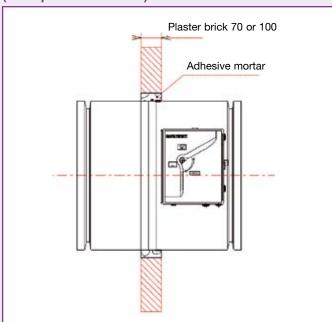
Installation advantages

- · Standard economic mortar.
- · Unsealed mechanism.
- Horizontal or vertical blade axis.
- Advantages of the mechanism
- Dual voltage 24/48 V.
- Sufficient space to house fire safety control unit (CMSI) equipment.

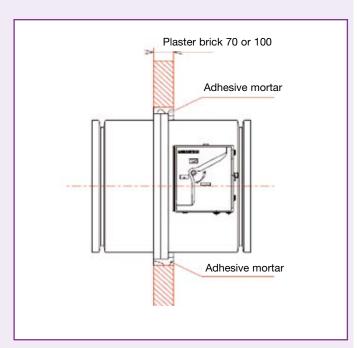
FLUSH-MOUNTED INSTALLATION IN PLASTER BRICK WALL 70 MM OR 100 MM

- Opening: EM = X + 50 / Y + 50 FdP = X + 100 / Y + 100.
- Offset mechanism, push mechanism against wall.
- Standard adhesive mortar.
- El 90 S on 70 mm plaster blocks
- El 120 S on 90 mm plaster blocks.

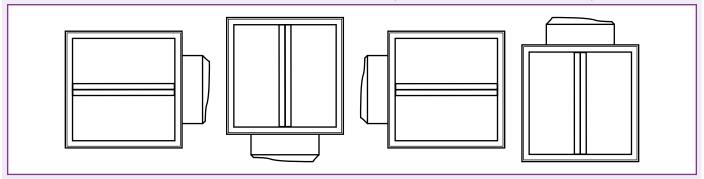
RECTANGULAR ISONE+ EM (except > 800 x 600):



RECTANGULAR ISONE+ FDP:



POSITION OF MECHANISM INDIFFERENT ANYWHERE IN 360° (EXCEPT VERSIONS > 800 X 600)



CE certificates and classification reports available on www.aldes.fr.





Rectangular flush-mounted ISONE+ Europe FdP: low pressure loss



Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1099

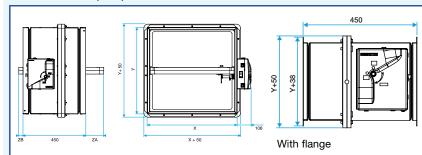
Advantages

- Reduced pressure losses.
- Embedded into tile slab no fixings or hangings.
- · Horizontal or vertical blade axis.
- · Light weight.
- Airtight Class B from EN 1751.

FIRE PROTECTION RATING

- El 120 S 500 Pa in concrete slab 150 mm & aerated concrete 150 mm.
- El 90 S on 70 mm plaster blocks, El 120 S on 100 mm plaster blocks.
- El 90 S in aerated concrete 100 mm (Dim. max 800 x 600 mm)

DIMENSIONS (MM)



ZA, ZB: fin movement.

| Υ | <= 350 | 400 | 450 | 500 | 550 | 600 |
|----|--------|-----|-----|-----|-----|-----|
| ZA | 0 | 16 | 42 | 66 | 92 | 116 |
| ZB | 0 | 0 | 0 | 0 | 0 | 16 |

WEIGHT (KG) & RANGE WITH SELECTION OF OPTIONS

70°C thermal fuse included.

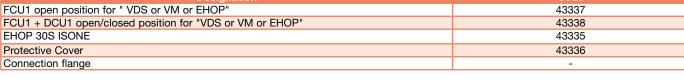
| Height Y | | | | | | | Width X | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|
| neight 1 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 200 | 9 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | | | |
| 250 | 10 | 11 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | |
| 300 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 350 | 13 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 27 |
| 400 | 14 | 15 | 17 | 18 | 19 | 20 | 22 | 23 | 24 | 25 | 27 | 28 | 29 |
| 450 | | 16 | 18 | 19 | 20 | 22 | 23 | 24 | 26 | 27 | 28 | 30 | 31 |
| 500 | | 17 | 19 | 20 | 22 | 23 | 24 | 26 | 27 | 29 | 30 | 31 | 33 |
| 550 | | | 20 | 21 | 23 | 24 | 26 | 27 | 29 | 30 | 32 | 33 | 35 |
| 600 | | | 21 | 23 | 24 | 26 | 27 | 29 | 30 | 32 | 34 | 35 | 37 |

FdP MM code 11043343

AVAILABLE OPTIONS

FdP PM code 11043342

| Choose mechanism equipment from the table below. | | | |
|--|--------------------|---------------------|---------------------|
| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24 V Option Code | 48 V Option Code |
| FCU1 open position for "FTE" | 43301 | | |
| DCU1 closed position contact for "FTE" | 43302 | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 |
| Designation | | Code | |
| FCU1 open position for " VDS or VM or EHOP" | | 43337 | <u> </u> |
| EQ.11 | | 10000 | |





Rectangular ISONE Fire damper



Rectangular flush-mounted ISONE+ EM: minimum dimensions



Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1097

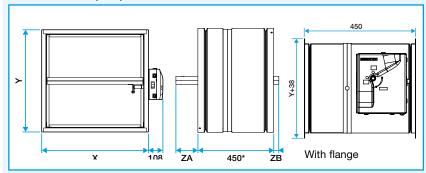
Advantages

- Minimum dimensions and space requirements.
- Embedded into tile slab no fixings or hangings.
- Horizontal or vertical damper axis (except > 800 x 600).
- Airtight Class B from EN 1751.

FIRE PROTECTION RATING

- El 120 S 500 Pa in concrete slab 150 mm & aerated concrete 150 mm.
- El 90 S on 70 mm plaster blocks.
- El 120 S on 100 mm plaster blocks.
- \bullet EI 90 S in aerated concrete 100 mm (Dim. max 800×600 mm)

DIMENSIONS (mm)



ZA, ZB: fin movement. (*) 430 up to 250 x 250.

| Υ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| ZA | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 68 | 93 |
| ZB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Υ | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,050 |
| ZA | 116 | 141 | 164 | 195 | 220 | 245 | 270 | 295 | 320 |
| ZB | 16 | 41 | 64 | 95 | 120 | 145 | 170 | 195 | 220 |

| | | | | | | | | | | | | | v | /idth | X | | | | | | | | | | | | |
|-------------|-----|-------|------|-----|-----|-----|-----|-------|-------|-----|-----|-----|------|-------|------|-----|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height Y | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | | 900 | 950 | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,500 |
| 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 110 | 43340 |) EM | -PM | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | | | | | | | 1 | 10433 | 341 E | M-M | М | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | | | | | | | | | | | | | | | | | 11043344 EM-GM | | | | | | | | | | |
| 700 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | | | | | | | | | | | | 11 | 0433 | 45 EI | M-TG | M | | | | | | | | | | | |
| 1,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,050 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EI 120 S

El 90 S (For El 120 S use ISONE 1500)



Rectangular ISONE Fire damper



Rectangular flush-mounted ISONE+ EM: minimum dimensions



Did you know?

- Approved fire damper in slab sealed with traditional mortar, no suspension support.
- EN 15650: 1812-CPD-1097

Advantages

- Minimum dimensions and space requirements.
- Embedded into tile slab no fixings or hangings.
- Horizontal or vertical damper axis (except > 800 x 600).
- Easily installed in series with optimised air flow passage.
- Airthight Class B from EN 1751.

WEIGHT (KG) & RANGE WITH SELECTION OF OPTIONS

70°C thermal fuse included.

| Height | | | | | | | | | | | | | ٧ | Vidth 1 | X | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Ϋ́ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,500 |
| 200 | 9 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | | | | | | | | | | | | | | | |
| 250 | 9 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | | | | | | | | | | | |
| 300 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | | | | | | | | | | | | |
| 350 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 28 | 29 | 30 | 33 | | | | | | | | | |
| 400 | 13 | 14 | 15 | 17 | 18 | 19 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 30 | 31 | 32 | 35 | 36 | 37 | 38 | | | | | | |
| 450 | | 15 | 16 | 18 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 33 | 36 | 37 | 38 | 40 | 41 | 42 | 43 | 44 | | | |
| 500 | | 16 | 17 | 19 | 20 | 21 | 23 | 24 | 25 | 27 | 28 | 29 | 31 | 32 | 33 | 37 | 38 | 39 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 550 | | | 18 | 20 | 21 | 23 | 24 | 26 | 27 | 28 | 30 | 31 | 33 | 34 | 37 | 39 | 40 | 45 | 43 | 44 | 46 | 47 | 47 | 48 | 49 | 50 | 51 |
| 600 | | | 19 | 21 | 22 | 24 | 25 | 27 | 28 | 30 | 31 | 33 | 34 | 38 | 39 | 41 | 42 | 44 | 45 | 47 | 48 | 50 | 50 | 51 | 52 | 53 | 54 |
| 650 | | | | 22 | 24 | 25 | 27 | 28 | 30 | 32 | 33 | 35 | 38 | 40 | 41 | 43 | 44 | 46 | 48 | 49 | 50 | 52 | 52 | 53 | 54 | 55 | |
| 700 | | | | 23 | 25 | 26 | 28 | 30 | 31 | 33 | 35 | 38 | 40 | 42 | 43 | 45 | 47 | 48 | 50 | 52 | 53 | 55 | 54 | 55 | 56 | | |
| 750 | | | | | 26 | 28 | 29 | 31 | 33 | 35 | 38 | 40 | 42 | 43 | 45 | 47 | 49 | 51 | 53 | 55 | 56 | 56 | 56 | 57 | | | |
| 800 | | | | | 29 | 31 | 33 | 33 | 36 | 38 | 40 | 42 | 44 | 45 | 47 | 49 | 51 | 53 | 55 | 57 | 58 | 58 | 58 | | | | |
| 850 | | | | | | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 45 | 47 | 49 | 51 | 53 | 55 | 57 | 59 | 60 | 62 | | | | | |
| 900 | | | | | | 25 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 | 53 | 55 | | | | | | |
| 950 | | | | | | | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | | | | | | | |
| 1,000 | | | | | | | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 | 53 | | | | | | | | |
| 1,050 | | | | | | | | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | | | | | | | | | |

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24 V Option Code | 48 V Option Code |
|--|--------------------|---------------------|---------------------|
| FCU1 open position for "FTE" | 43301 | | |
| DCU1 closed position contact for "FTE" | 43302 | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 |

| Designation | Code |
|--|-------|
| FCU1 open position for " VDS or VM or EHOP" | 43337 |
| FCU1 + DCU1 open/closed position for "VDS or VM or EHOP" | 43338 |
| EHOP 30S ISONE | 43335 |
| Protective Cover | 43336 |
| Connection flange | - |



ISONE with a BF/BLF Mechanism

ISONE+ rectangular fire damper with a BF/BLF Mechanism



FIRE PROTECTION RATING EN 15650

- El 120 S 500 Pa in 150 mm concrete slab and 150 mm cellular concrete.
- El 90 S Pa on 70mm plaster blocks, El 120 S on 100 mm plaster bocks.

RANGE WITH CHOICE OF OPTIONS

| Description | Code |
|-----------------------------|----------|
| ISONE+ EUROPE RECT EM PM-M | 11043450 |
| ISONE+ EUROPE RECT EM MM-M | 11043451 |
| ISONE+ EUROPE RECT FDP PM-M | 11043452 |
| ISONE+ EUROPE RECT FDP MM-M | 11043453 |
| ISONE+ EUROPE RECT EM GM-M | 11043454 |
| ISONE+ EUROPE RECT EM TGM-M | 11043455 |

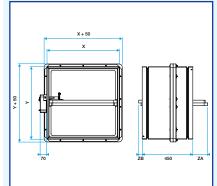
AVAILABLE OPTIONS

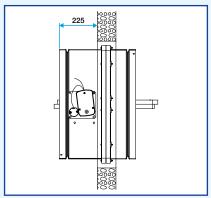
| Description | Code |
|--------------------------------|----------|
| MECHANISM BLF24V-BAE72-FC-DC | OPT43326 |
| MECHANISM BLF 230V-BAE72-FC-DC | OPT43327 |
| MECHANISM BF 24V-BAE72-FC-DC | OPT43328 |
| MECHANISM BF 230V-BAE72-FC-DC | OPT43329 |
| Connection flange | - |

All mechanisms are equipped with:

- FC/DC signalling contacts (open/closed position),
- A 72° fuse.

DIMENSIONS (MM)





Dimensions identical to ISONE dampers with an Aldes mechanism.

| | | | | | | | | | | | | | V | /idth | X | | | | | | | | | | | | |
|-------------|-----|-----|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height Y | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,500 |
| 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | | | | | Us | e BLI | = med | chani | sm | | | | | | | | | | | | | | | | | | |
| 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | | U | se BF | med | hanis | sm | | | | | | | | | | |
| 800 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,050 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

El 90 S (For El 120 S use ISONE 1500)



Compartmentalisation

ISONE Europe 1500



Compliance

CE 1812 - CPR - 1016.

Advantages

- · Sealed using traditional mortar, no fixing accessories required.
- Upgradeable mechanism: all equipment can be connected by hand.
- Dual voltage trip (24/48 V): prevents control
- Easy cabling thanks to the removable terminals.
- · Series installation using standard shutters.

FIELD OF APPLICATION

Compartmentalisation of commercial premises (public buildings, High rises buildings, commercial or industrial premises, etc.).

DESCRIPTION

- · Consists of 2 metal sleeves on both sides of an assembly of refractory material.
- The upgradable mechanism box is positioned on a sleeve. This box is set back from the blade itself to avoid it being sealed into the partition during installation of the damper.

FIRE PROTECTION RATING

- El 120 S 1500 Pa on 110 mm concrete wall and 100 mm cellular concrete.
- El 240 S 1500 Pa on 175 mm concrete wall and 150 mm cellular concrete.
- El 90 S 1500 Pa on 110 mm concrete slabs
- El 240 S 1500 Pa on 150 mm concrete slabs.
 El 180 S 500 Pa on 150 mm concrete slabs and 150 mm concrete wall or cellular concrete.

INSTALLATION

- Embedded into a 150 mm concrete wall or into 100 mm of aerated concrete.
- Embedded into a concrete slab of 150 mm (up to 600 x 600 mm).
- Traditional grouting with mortar.
 Damper blade shaft must be horizontal.

AVAILABLE OPTIONS

- Mechanism equipement see: page 146 and 148.
 ISONE 1500 can house the BF/BLF mechanism: see page 144.

ISONE 1500 PRESSURE LOSS

Pressure loss: ΔP in Pa at speed of 4 m/s in duct

| Height | | | | | | | | | | | | | | Wid | lth X | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Υ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,50 |
| 200 | 33 | 33 | 31 | 28 | 26 | 23 | 21 | 18 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 1 | - | - |
| 250 | 28 | 27 | 27 | 25 | 23 | 21 | 20 | 18 | 17 | 15 | 14 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | 22 | 22 | 22 | 22 | 21 | 20 | 19 | 18 | 17 | 15 | 14 | 13 | 12 | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | 19 | 18 | 17 | 15 | 12 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - | - | - | - | - | - | - | - | - |
| 400 | 14 | 13 | 12 | 10 | 10 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | - | - | - | - | - | - |
| 450 | - | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | - | - |
| 500 | - | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 550 | - | - | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | - |
| 600 | - | - | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | - | - |
| 650 | - | - | - | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | - | - | - |
| 700 | - | - | - | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | - | - | - | - |
| 750 | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | - | - | - | - | - |
| 800 | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - | - | - |
| 850 | - | - | - | - | - | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - | - | - | - |
| 900 | - | - | - | - | - | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | | - | | - | - |
| 950 | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | | - | - | - | - | - | - |
| 1,000 | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - | - | - | - | - | - | - |

Note: to determine pressure loss at a given speed V: $\Delta P = \Delta P(4 \text{ m/s}) \times V^2 / 16$.

| Ø | 160 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 710 | 800 | 900 | 1000 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 25 | 19 | 15 | 13 | 10 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 5 |

ISONE 1500 with casing



Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1016.

Advantages

- Sealed using traditional mortar, no fixing accessories required.
- Upgradeable mechanism: all equipment can be connected by hand.
- Dual voltage trip (24/48 V): prevents control errors.
- Easy cabling thanks to the removable terminals.

RANGE WITH BF/BLF MECHANISM

| Designation | Code |
|----------------------------|----------|
| ISONE-Europe-1500 Ø 160-M | 11043202 |
| ISONE-Europe-1500 Ø 200-M | 11043203 |
| ISONE-Europe-1500 Ø 250-M | 11043204 |
| ISONE-Europe-1500 Ø 315-M | 11043205 |
| ISONE-Europe-1500 Ø 355-M | 11043206 |
| ISONE-Europe-1500 Ø 400-M | 11043207 |
| ISONE-Europe-1500 Ø 450-M | 11043208 |
| ISONE-Europe-1500 Ø 500-M | 11043209 |
| ISONE-Europe-1500 Ø 560-M | 11043210 |
| ISONE-Europe-1500 Ø 630-M | 11043211 |
| ISONE-Europe-1500 Ø710-M | 11043212 |
| ISONE-Europe-1500 Ø 800-M | 11043213 |
| ISONE-Europe-1500 Ø 900-M | 11043214 |
| ISONE-Europe-1500 Ø 1000-M | 11043215 |
| | |

RANGE with choice of options

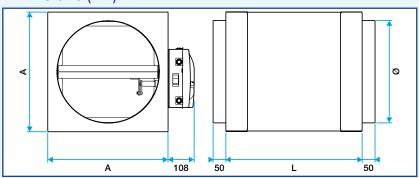
70°C thermal fuse included.

| Designation | Code |
|--------------------------|----------|
| ISONE-Europe-1500 Ø 160 | 11043078 |
| ISONE-Europe-1500 Ø 200 | 11043079 |
| ISONE-Europe-1500 Ø 250 | 11043080 |
| ISONE-Europe-1500 Ø 315 | 11043081 |
| ISONE-Europe-1500 Ø 355 | 11043082 |
| ISONE-Europe-1500 Ø 400 | 11043083 |
| ISONE-Europe-1500 Ø 450 | 11043084 |
| ISONE-Europe-1500 Ø 500 | 11043085 |
| ISONE-Europe-1500 Ø 560 | 11043086 |
| ISONE-Europe-1500 Ø 630 | 11043087 |
| ISONE-Europe-1500 Ø710 | 11043088 |
| ISONE-Europe-1500 Ø 800 | 11043089 |
| ISONE-Europe-1500 Ø 900 | 11043090 |
| ISONE-Europe-1500 Ø 1000 | 11043091 |

To obtain a 125 mm diameter fire damper, order 2 reducers (11143575) as a complement to a 160 mm

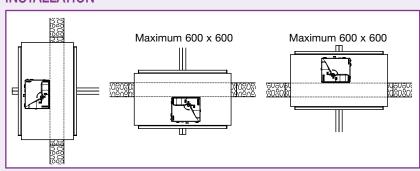
To obtain a 100 mm diameter fire damper, order 2 reducers (11143574) as a complement to a 160 mm fire damper.

DIMENSIONS (mm)



| 160 | 200 | 250 | 315 | 355 | 400 | 450 |
|-----|-----|---|---|---|---|---|
| 26 | 35 | 315 | 365 | 415 | 465 | 515 |
| 41 | 15 | 415 | 415 | 480 | 530 | 580 |
| 500 | 560 | 630 | 710 | 800 | 900 | 1,000 |
| | | | | | | 1,065 |
| | | | | | | 970 |
| | 26 | 265 415 500 560 565 615 | 265 315 415 415 500 560 630 565 615 715 | 265 315 365 415 415 415 500 560 630 710 565 615 715 765 | 265 315 365 415 415 415 415 480 500 560 630 710 800 565 615 715 765 865 | 265 315 365 415 465 415 415 415 480 530 500 560 630 710 800 900 565 615 715 765 865 965 |

INSTALLATION



• Space requirements (mm) = (A+50) x (A+50).

AVAILABLE OPTIONS

| Choose mechanism equipment from the table below. | | | |
|--|--------------------|---------------------|---------------------|
| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24 V Option Code | 48 V Option Code |
| FCU1 open position for "FTE" | 43301 | | |
| DCU1 closed position contact for "FTE" | 43302 | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 |
| Designation | | Code | |
| FCU1 open position for " VDS or VM or EHOP" | | 43337 | |
| FCU1 + DCU1 open/closed position for "VDS or VM or EHOP" | | 43338 | |
| EHOP 30S ISONE | | 43335 | |



Protective Cover

Compartmentalisation

ISONE 1500 with sleeve



FIRE PROTECTION

Installation in series

- El 120 S 500 Pa
- El 90 S 1500 Pa

DESCRIPTION

- Rectangular duct in refractory material, sleeves attached to the ends to aid connection to a rectangular network.
- · Mobile damper blade, in refractory material, closing against the stops.
- Upgradeable ISONE mechanism.

INSTALLATION

- Embedded into a 110 mm concrete wall or into 100 mm of aerated concrete.
- Embedded into a concrete slab of 150 mm (up to 600 x 600 mm).
- · Sealed using traditional mortar, no fixing accessories required.
- Space requirements (mm) = (X+100) x (Y+100).
- Damper blade shaft must be horizontal.
- For sections not covered by the pricing list, use installations of units in series, taking the appropriate dimensions.

Installation in series:

Validated:

- El 90S 1500 Pa,
- El 120S 500 Pa.

When installing a vertical assembly of a maximum of four 1200x800 mm dampers, for a maximum duct of 2470 x 1670 mm.

Select the damper dimensions by subtracting 70 mm, which corresponds to the thicknesses of the two touching faces.

Example for a series of 1800 x 1200 mm, it is possible to use 4 x X Y dampers:

X = (1800 - 70) / 2 = 865 mm, Y= (1200 - 70) / 2 = 565 mm.

It is extremely simple to install the ISONE 1500 units in series:

- 1 Stick the touching faces of the dampers together using the appropriate adhesive (Code 11043056).
- Secure the faces in contact using 5 x 40 mm screws, spaced every 150 mm (approx.).
- When connecting using offset flanges, it may be necessary to notch the sleeves by a few mm.

ACCESSORIES

| Designation | Code |
|--------------------------------|----------|
| Adhesive for ISONE 1500 series | 11043056 |
| | |

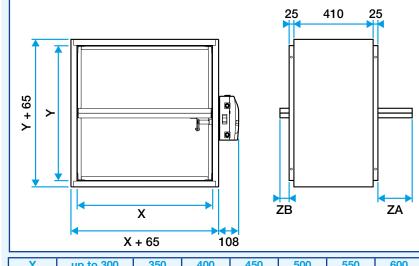
Compliance

- CE 1812 CPR 1016.
- Series installation
- El 120S 500 Pa,
- El 90S 1500 Pa.

Advantages

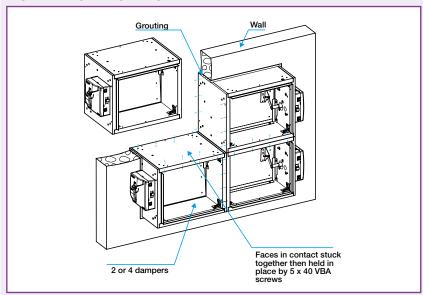
- · Sealed using traditional mortar, no fixing accessories required.
- Upgradeable mechanism: all equipment can be connected by hand.
- Dual voltage trip (24/48 V): prevents control
- · Easy cabling thanks to the removable terminals.
- · Series installation using standard shutters.

DIMENSIONS (mm)



| Υ | up to | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----|-------|-----|-----|-----|-----|-----|-----|-------|
| ZA | 0 | | 10 | 35 | 60 | 85 | 110 | 135 |
| ZB | 0 | | 0 | 0 | 0 | 0 | 0 | 5 |
| Υ | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1,000 |
| ZA | 160 | 185 | 210 | 235 | 260 | 285 | 310 | 335 |
| ZB | 30 | 55 | 80 | 105 | 130 | 155 | 180 | 205 |

INSTALLATION IN SERIES



ISONE 1500 with sleeve



Compliance

- CE 1812 CPR 1016.
- Series installation
- El 120S 500 Pa,
- El 90S 1500 Pa.

Advantages

- Sealed using traditional mortar, no fixing accessories required.
- Upgradeable mechanism: all equipment can be connected by hand.
- Dual voltage trip (24/48 V): prevents control errors.
- Easy cabling thanks to the removable terminals.
- Series installation using standard shutters.

WEIGHT (KG) & RANGE WITH CHOICE OF OPTIONS

- Thermal fuse 70 °C included.
- Can be installed in series: use the specific glue for assembly of the ISONE 1500 standard shutters (Code 11043056).

| Height | | | | | | | | Wid | th X | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| Ϋ́ | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 |
| 200 | 17 | 18 | 20 | 21 | 23 | 24 | 25 | 27 | 28 | - | - | - | - | - | - | - |
| 250 | 18 | 20 | 21 | 23 | 24 | 26 | 27 | 29 | 30 | 33 | 35 | 36 | - | - | - | - |
| 300 | 20 | 21 | 23 | 24 | 26 | 28 | 29 | 31 | 32 | 35 | 37 | 38 | 40 | 41 | 43 | - |
| 350 | 21 | 23 | 24 | 26 | 28 | 29 | 31 | 33 | 34 | 37 | 39 | 41 | 42 | 44 | 45 | 47 |
| 400 | 23 | 24 | 26 | 28 | 29 | 31 | 33 | 35 | 36 | 39 | 41 | 43 | 44 | 46 | 48 | 50 |
| 450 | - | 26 | 28 | 29 | 31 | 33 | 35 | 36 | 38 | 42 | 43 | 45 | 47 | 49 | 50 | 52 |
| 500 | - | 27 | 29 | 31 | 33 | 35 | 37 | 38 | 40 | 44 | 45 | 47 | 49 | 51 | 53 | 55 |
| 550 | - | - | 31 | 33 | 35 | 36 | 38 | 40 | 42 | 46 | 48 | 50 | 52 | 53 | 55 | 57 |
| 600 | - | - | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
| 650 | - | - | - | 37 | 39 | 42 | 44 | 46 | 48 | 51 | 53 | 56 | 58 | 60 | 62 | 64 |
| 700 | - | - | - | 39 | 41 | 43 | 45 | 48 | 50 | 53 | 56 | 58 | 60 | 62 | 64 | 67 |
| 750 | - | - | - | - | 43 | 45 | 47 | 50 | 52 | 56 | 58 | 60 | 62 | 65 | 67 | 69 |
| 800 | - | - | - | - | 44 | 47 | 49 | 52 | 54 | 58 | 60 | 62 | 65 | 67 | 69 | 72 |
| 850 | - | - | - | - | - | 49 | 51 | 53 | 56 | 60 | 62 | 65 | 67 | 69 | 72 | 74 |
| 900 | - | - | - | - | - | 50 | 53 | 55 | 58 | 62 | 64 | 67 | 69 | 72 | 74 | 77 |
| 950 | - | - | - | - | - | - | 55 | 57 | 60 | 64 | 67 | 69 | 72 | 74 | 77 | 79 |
| 1,000 | - | - | - | - | - | - | 57 | 59 | 62 | 66 | 69 | 71 | 74 | 77 | 79 | 82 |

| Height Y | | | | | | Width X | | | | | |
|------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|
| rieigiit i | 1,000 | 1,050 | 1,100 | 1,150 | 1,200 | 1,250 | 1,300 | 1,350 | 1,400 | 1,450 | 1,500 |
| 350 | 49 | 50 | - | - | - | - | - | - | - | - | - |
| 400 | 51 | 53 | 55 | 56 | 58 | - | - | - | - | - | - |
| 450 | 54 | 56 | 57 | 59 | 61 | 63 | 65 | 66 | - | - | - |
| 500 | 57 | 58 | 60 | 62 | 64 | 66 | 68 | 70 | 71 | 73 | 75 |
| 550 | 59 | 61 | 63 | 65 | 67 | 69 | 71 | 73 | 75 | 77 | - |
| 600 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 | - | - |
| 650 | 66 | 68 | 70 | 72 | 74 | 77 | 79 | 81 | - | - | - |
| 700 | 69 | 71 | 73 | 75 | 77 | 80 | 82 | - | - | - | - |
| 750 | 71 | 74 | 76 | 78 | 80 | 83 | - | - | - | - | - |
| 800 | 74 | 76 | 79 | 81 | 83 | - | - | - | - | - | - |
| 850 | 77 | 79 | 82 | 84 | - | - | - | - | - | - | - |
| 900 | 79 | 82 | 84 | - | - | - | - | - | - | - | - |
| 950 | 82 | 85 | - | - | - | - | - | - | - | - | - |
| 1.000 | 85 | _ | _ | _ | _ | _ | _ | _ | _ | - | _ |

| Designation | Code |
|--------------------------|----------|
| ISONE-EUROPE-1500 RECT | 11043058 |
| ISONE-EUROPE-1500 RECT-M | 11043059 |

AVAILABLE OPTIONS

Choose mechanism equipment from the table below.

| Select equipment (indicate trip voltage in order for factory adjustment and testing) | FTE Option Code | 24 V Option Code | 48 V Option Code |
|--|--------------------|---------------------|---------------------|
| FCU1 open position for "FTE" | 43301 | | |
| DCU1 closed position contact for "FTE" | 43302 | | |
| FCU1 + DCU1 open/closed position for "FTE" | 43303 | | |
| VDS "Power emission" electromagnetic trip device 24/48 Isone | | 43331 | 43332 |
| VM "Power cut-off" electromagnetic trip device 48 Isone | | 43333 | 43334 |

| Designation | Code |
|--|-------|
| FCU1 open position for " VDS or VM or EHOP" | 43337 |
| FCU1 + DCU1 open/closed position for "VDS or VM or EHOP" | 43338 |
| EHOP 30S ISONE | 43335 |
| Protective Cover | 43336 |



Flush-mounted MINISONE





MINISONE Ø 160

Compliance

Compliant with CE marking as per EN 15650: 1812-CPR-1079.

Advantages

- Reduced pressure losses.
- Attaches directly to smaller diameter ducts, no need for reduction fittings.
- Aeraulic connections fitted with lip seals.
- Airtight Class B from EN 1751.

FIELD OF APPLICATION

 Compartmentalisation of commercial premises (Public buildings, commercial or industrial sites, etc.).

DESCRIPTION

- Comprises a galvanised steel tunnel and a mobile 20 mm-thick blade made of refractory material.
- The trip device unit is attached to the tunnel. It is positioned offset to the blade so that only one part is sealed in the wall during installation.
- Automatic trip device activated at 70 °C by thermal fuse.
- Kits contacts accessories.
- Lip seals for class B airtight seal as per standard EN 1751.

FIRE PROTECTION RATING

- El 60 S 500 Pa Ve (i → o): 110 mm concrete wall or 100 mm aerated concrete wall.
- El 60 S 500 Pa Ve (i → o): Thin plasterboard partition wall.

INSTALLATION

- Flush-mounted in a concrete wall or lightweight partition.
- Vertical assembly only.
- Sealed using standard mortar (concrete wall) or standard mortar / aerated concrete mortar for an aerated concrete wall.
- Sealed using rockwool and plaster mortar (lightweight partitions).
- The mechanism box is fitted flush against the wall.
 This must remain accessible even after the damper is fitted (Ensure an inspection hatch is fitted for this purpose).
- The aeraulic connection must not apply stress on the damper.

STANDARD AUTO-CONTROL RANGE

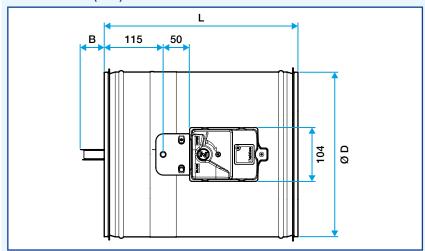
70 °C thermal fuse included.

| Designation | With a FTE 70°C |
|-------------------|--------------------|
| Minisone Ø 100 mm | 11043230 |
| Minisone Ø 125 mm | 11043231 |
| Minisone Ø 160 mm | 11043232 |
| Minisone Ø 200 mm | 11043233 |
| Minisone Ø 250 mm | 11043234 |
| Minisone Ø315mm | 11043235 |

ACCESSORIES

| Designation | Code |
|---------------------------------|----------|
| MINISONE FCU + DCU contact kit | 11043263 |
| MINISONE FCU or DCU contact kit | 11043262 |

DIMENSIONS (MM)



| ØD | Ø opening | L | В | Weight |
|------|-----------|------|------|--------|
| (mm) | (mm) | (mm) | (mm) | (Kg) |
| 100 | 150 | 385 | - | 1.3 |
| 125 | 175 | 385 | - | 1.5 |
| 160 | 210 | 370 | - | 1.9 |
| 200 | 260 | 370 | - | 2.7 |
| 250 | 310 | 370 | 17 | 3.4 |
| 315 | 375 | 370 | 48 | 4.5 |

PRESSURE LOSS

| | | Speed in duct (m/s) | | | | | | | | | | |
|------|---------------------|---------------------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
| | 2 | | 4 | | 6 | | 8 | | 10 |) | 12 | 2 |
| Ø D | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ | Q | ΔΡ |
| (mm) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) | (m ³ /h) | (Pa) |
| 100 | 57 | 4 | 113 | 14 | 170 | 32 | 226 | 56 | - | - | - | - |
| 125 | 88 | 2 | 177 | 7 | 265 | 16 | 353 | 28 | 442 | 44 | 530 | 63 |
| 160 | 145 | 1 | 290 | 4 | 434 | 9 | 579 | 16 | 724 | 25 | 869 | 36 |
| 200 | 226 | 1 | 452 | 4 | 679 | 9 | 905 | 16 | 1,131 | 25 | 1,357 | 36 |
| 250 | 353 | 1 | 707 | 3 | 1,060 | 7 | 1,414 | 12 | 1,767 | 19 | 2,121 | 27 |
| 315 | 561 | 1 | 1.122 | 2 | 1.683 | 5 | 2.244 | 8 | 2.806 | 13 | 3.367 | 18 |



MINISONE flush-mounted in concrete wall - El 60 S - 500 Pa

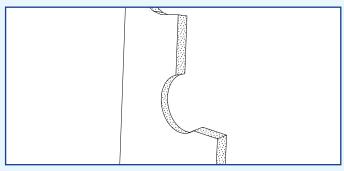


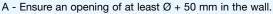


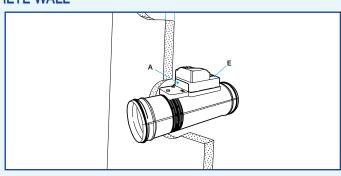
MINISONE Ø 315

MINISONE Ø 160

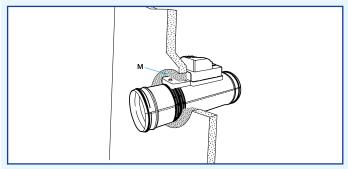
110 MM CONCRETE WALL OR 100 MM AERATED CONCRETE WALL



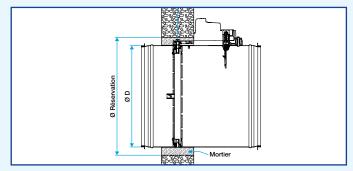




B - Position the damper with the support face (A) against the wall. The mechanism (E) must remain accessible.



C - Fill the seal (M) using standard mortar (concrete wall) or standard mortar / aerated concrete mortar for an aerated concrete wall.



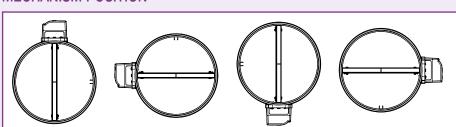
D - MINISONE flush-mounted in a concrete wall.

Visit www.aldes.com or your nearest ALDES branch for more details. Respect the rating reports.

OPENING FOR MOUNTING

| Thickness of wall | Mortar used | Diameter of opening |
|-------------------------|-------------------------|---------------------|
| Concrete 110 mm | Standard mortar | Ø D damper + 50 mm |
| Aerated concrete 100 mm | Aerated concrete mortar | Ø D damper + 50 mm |
| Aerated concrete 100 mm | Standard mortar | Ø D damper + 50 mm |

MECHANISM POSITION



Note: the mechanism box must remain accessible after installing the damper. Ensure an inspection hatch is installed.



Compartmentalisation

MINISONE flush-mounted in flexible wall - El 60 S - 500 Pa

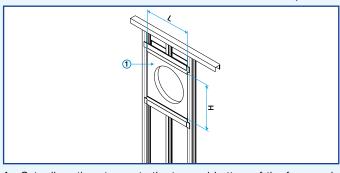




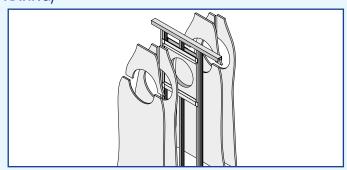
MINISONE Ø 315

MINISONE Ø 160

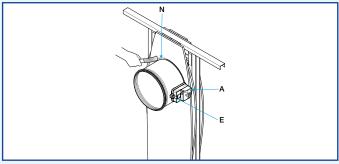
STANDARD 98/48 PLASTERBOARD PARTITION (1H FIRE RATING)



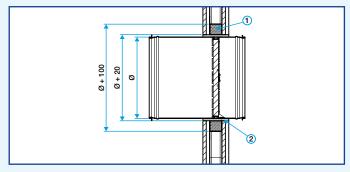
Cut rail sections to create the top and bottom of the framework, leaving a free passage (H x L) of \emptyset + 20 mm in the wall. Insert rockwool 1 cut to size beforehand (square of Ø + 100 mm) with a hole maximum size \emptyset + 20 mm.



B - Present and attach the plaster boards cut to shape to \emptyset + 20 mm maximum.



C - Position the damper with the support face (A) against the wall. The mechanism (E) must remain accessible. Seal with plaster mortar



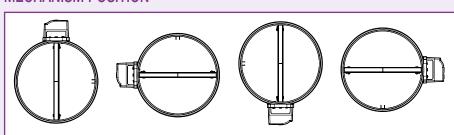
- D MINISONE flush-mounted in lightweight partition wall.
 - 1 Rockwool
 - ② Plaster mortar seal

Visit www.aldes.com or your nearest ALDES branch for more details. Respect the rating reports.

OPENING FOR MOUNTING

| Thickness of wall | Mortar used | Diameter of opening |
|----------------------------|-----------------------------------|---------------------|
| Lightweight partition wall | Rockwool then plaster mortar seal | Ø D damper + 20 mm |

MECHANISM POSITION



Note: the mechanism box must remain accessible after installing the damper. Ensure an inspection hatch is installed.



Terminal fire dampers CF1/CF2



Compliance

 Complies with CE markings from EN 15650:
 No. 1396-CPD - 0055.

FIELD OF APPLICATION

- Items to insert in the end section of an air duct to maintain the fire protection rating for the wall penetrated.
- Compartmentation in end section
- CMEV ductwork...

DESCRIPTION

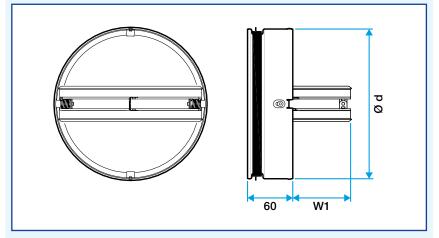
- CE certified as per EN15650.
- Fire protection rating:
- CF1 = EI 60 S (Ve Ho i<->o) at 300 Pa,
- CF2 = EI 120 S (Ve Ho i<->o) at 300 Pa.

RANGE

| Ø (mm) | Designation | Code |
|--------|-------------------|----------|
| 100 | CF1-D100-(EI60S) | 11040430 |
| 125 | CF1-D125-(EI60S) | 11040431 |
| 150 | CF1-D150-(EI60S) | 11040432 |
| 160 | CF1-D160-(EI60S) | 11040433 |
| 200 | CF1-D200-(EI60S) | 11040434 |
| 100 | CF2-D100-(EI120S) | 11040435 |
| 125 | CF2-D125-(EI120S) | 11040436 |
| 150 | CF2-D150-(EI120S) | 11040437 |
| 160 | CF2-D160-(EI120S) | 11040438 |
| 200 | CF2-D200-(EI120S) | 11040439 |

DIMENSIONS (MM) - WEIGHT (KG)

| (100 100) | d | EI 60/120 S | EI 60 S | EI 120 S | |
|-----------|-------|-------------|-------------|----------|--|
| (mm) | (mm) | W1 (mm) | Weight (kg) | | |
| 100 | 98.5 | 27 | 0.3 | 0.3 | |
| 125 | 123.5 | 39.5 | 0.4 | 0.4 | |
| 150 | 148.5 | 52 | 0.4 | 0.6 | |
| 160 | 158.5 | 57 | 0.5 | 0.6 | |
| 200 | 198.5 | 77 | 0.7 | 0.9 | |



PRESSURE LOSS

| Ø D | | Speed in duct (m/s) | | | | | | | | |
|------|--------------------------|---------------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|
| ا ا | 2 | 2 | 4 | ļ. | 6 | | 8 | | 10 | |
| (mm) | Q (m ³ /h) | ΔP (Pa) | Q (m ³ /h) | ΔP (Pa) | Q (m ³ /h) | ΔP (Pa) | Q (m ³ /h) | ΔP (Pa) | Q (m ³ /h) | ∆P (Pa) |
| 100 | 57 | 12 | 113 | 50 | 170 | - | 226 | - | 283 | - |
| 125 | 88 | 6 | 177 | 22 | 265 | 50 | 353 | 90 | 442 | - |
| 140 | 111 | 4 | 222 | 15 | 333 | 34 | 443 | 60 | 554 | 95 |
| 150 | 127 | 3 | 254 | 12 | 382 | 27 | 509 | 50 | 636 | 75 |
| 160 | 145 | 3 | 290 | 10 | 434 | 22 | 579 | 40 | 724 | 60 |
| 180 | 183 | 2 | 366 | 7 | 550 | 26 | 733 | 38 | 916 | 40 |
| 200 | 226 | 1 | 452 | 5 | 679 | 12 | 905 | 20 | 1,131 | 30 |





Terminal fire dampers CF1/CF2

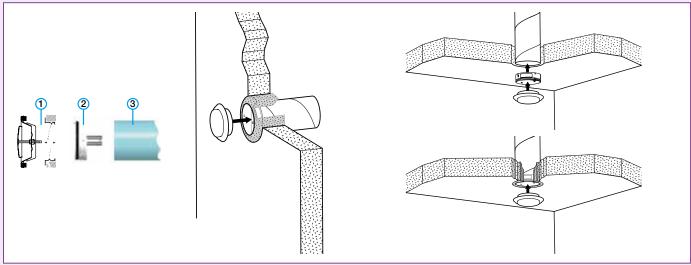


Compliance

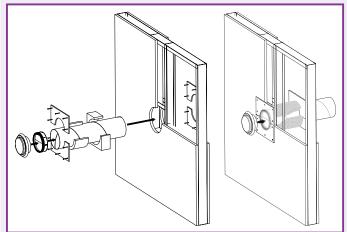
 Complies with CE markings from EN 15650:
 No. 1396-CPD - 0055.

INSTALLATION

- 1 = Type SR 143 metallic-cored grille with sleeve.
- 2 = CF1 or CF2 cartridge.
- 3 = Duct.



Terminal fire damper sealed using plaster/mortar/concrete.



Installation of a terminal fire damper using mineral wool and cover



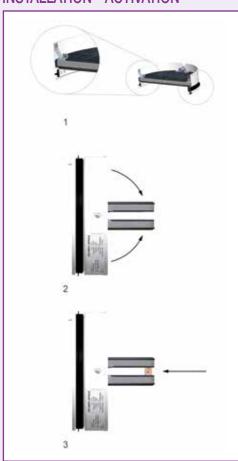
Terminal fire dampers CF1/CF2



Compliance

• Complies with CE markings from EN 15650: No. 1396-CPD - 0055.

INSTALLATION - ACTIVATION



- Push two release springs.
 Position blades at horizontal.
 Insert thermal fuse.

Resetting a terminal fire damper.



Fire damper mechanism

'ALDES CONTROL' PACK



FIELD OF APPLICATION

To perfect and facilitate the various controls, verifications and adjustments that precede any start-up of an installation, ALDES has designed and marketed a portable **automatic** functions controller **called** "ALDES CONTROL", which is autonomous and can be recharged from the mains supply. Its ergonomics and simplicity of use make it an indispensable tool for safety/security professionals.

Once it has been connected to the electrical terminal of an ALDES fire damper or smoke exhaust damper using a quick-fit multi-pin connector, it allows the simulation of the various centralised control system sequences and the **testing of the functions** of all of the components present such as:

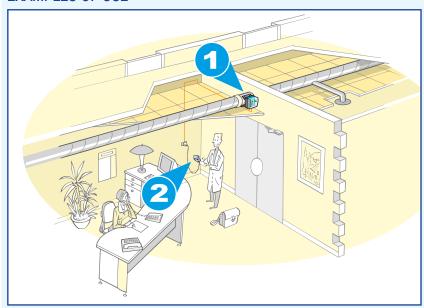
- The electromagnetic power emission tripping device by a series of time-delayed impulses,
- The position indicator contacts, using green and red LEDs to show the standby or safety position status,
- The resetting servo-motor with a unit energised indicator throughout the cycle's duration,
- The priority management of the safety position on the fire damper or smoke exhaust damper,
- The correct electrical connection for all the components on the single or plug-in terminal.

In addition, the voltage is automatically selected (24 or 48 VDC) for the correct operation of the equipment, and ensures about one hundred or so successive tests without recharge in the case of a complete configuration.

Advantages

- Extremely useful in checking that a fire damper is working, independently of the Fire Safety Control System (CMSI).
- Portable.

EXAMPLES OF USE



1: ISONE fire damper. 2: Aldes Control Pack.

RANGE

| Abbreviation | Désignation | Code |
|-----------------------------------|---|----------|
| ISONE ALDES CONTROL PACK | Function tester NF S 61-937 for SHUTTER or DAMPER. | 11041695 |
| CONTROL PACK bag kit | Protective transport bag | 11041697 |
| 16 pin comb kit | Removable adapter for 16-pin Weidmuller terminal | 11041770 |
| VRFI-VANTONE cable kit | CABLE KIT WAGO + comb 12 pins - VRFI -VANTONE (before Sept. 2005) | 11041699 |
| Cable kit ISONE 10-pins - VANTONE | Cable kit ISONE 10-pins - VANTONE (after Sept. 2005) | 11041696 |
| CONTROL PACK charger kit | | 11041698 |
| OPTONE cable kit | | 11044386 |

^{*} Includes: 1 controller, 1 protective bag, 1 charger, 1 ISONE 10-pin cable.

VRFI fire damper mechanism

VRFI - upgradable since 1987!



Advantages

- Can be upgraded at any time since 1987!
- Simplified maintenance.
- Proven reliability.

DESCRIPTION

The VRFI mechanism is fully upgradeable, all the components can be mounted in the original mechanism box, either directly when the part is delivered or later using appropriate kits.

The unit is fixed in place using screws (supplied).

ACTIVATION EQUIPMENT

- CM: manual control fitted on all dampers. Red rotary lever mounted on mobile cover for manual tripping without removing the cover.
- FTE: Thermal fuse link reacting to a set temperature (70°C), does not require a power source to be tripped. The fuse component is placed on a detachable support. It is possible to change just the fuse.
- VDS or VM: electromagnetic trip device operating via power emission (VDS) or power cut-off (VM).
 - Voltage 24 or 48 V DC.
- Power consumption: VDS < 3.5 W, VM < 2 W.

SIGNAL EQUIPMENT

- FCU: single-pole stroke-end contact used to transmit damper position information (closed), to the central fire safety control unit for example.
- DCU: single-pole stroke-start contact used to transmit damper position information (open).
- FCB: dual-pole stroke end contact.
- DCB: dual-pole stroke start contact.

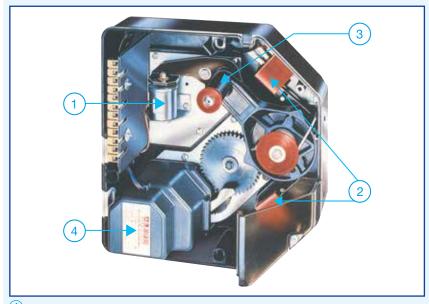
VRFI MECHANISM KITS

| Designation | Code |
|--|----------|
| Thermal fuse link kit FTE 70° | 11041750 |
| Bag of 10 thermal fuse links FTE 70° | 11041753 |
| Bag of 10 fuses 70° VRFI 09/00* | 11043401 |
| Electromagnet kit VDS 24 V DC 3.5W (I) | 11041754 |
| Electromagnet kit VDS 48 V DC 3.5W (I) | 11041755 |
| Electromagnet kit VM 24 V DC 3.5W (I) | 11041758 |
| Electromagnet kit VM 48 V DC 3.5W (I) | 11041759 |
| FCU or DCU contact kit (VRFI) | 11041762 |
| FCU or DCU contact kit (VRFI) | 11041763 |
| FCB contact kit for VRFI | 11041764 |
| DCB contact kit for VRFI | 11041765 |
| B20s motor kit 24/48 V - 0.7A VRFI | 11041777 |
| VRFI/ISONE 16 pin connectivity kit | 11041947 |
| VRFI/ISONE 10 pin connectivity kit | 11041928 |

Attention: these codes refer to spare parts. Fuses reserved for VRFI produced after September 2000.

| Designation | Code |
|--|----------|
| Full fixed and mobile cover sub-assembly | 11041767 |
| Main black box (bare) | 11042999 |
| Quarter-turn screws for mobile cover | 11042995 |

VRFI MECHANISM



- 1: Electromagnetic trip device.
- 2: Signal contacts.
 3: Reset lever.
- 4: B20S reset motor.

RESET EQUIPMENT

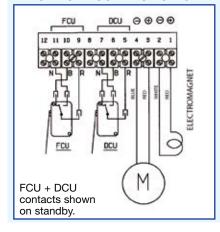
- MANUAL RESET is possible on all VRFI dampers, simply actuate the reset lever (after removing the cover).
- RESET MOTOR used to reset the damper to standby position after being tripped, with no manual intervention on the damper which may be difficult to access (simulation, periodical inspections, etc.).

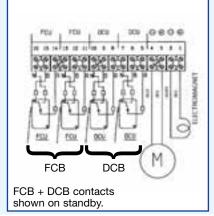
This motor is fully built in to the original box (3 screws).

Characteristics:

- Maximum intensity consumption: 700 mA.
- Voltage: 24 or 48 V DC or AC.
- Cycle length: < 30 sec.

ELECTRICAL CONNECTION ON ALL VRFI DAMPERS







Provisions concerning all fire dampers

Information concerning all fire dampers

GENERAL DATA

- A fire damper is a dual-position closure device:
- standby position blades open.
- safety position blades closed.
- A fire damper must be fitted with a thermal fuse.
- A fire damper must be able to be reset after cold tripping.

ALDES FIRE DAMPERS

- ALDES fire dampers fitted with a VRFI or ISONE mechanism are fully adaptable since 1987.
- All ALDES fire dampers are individually inspected before being packed.

Recommendations for all fire dampers

STORAGE PRIOR TO INSTALLATION

- These devices should be stored in an enclosed, dry and frost-protected location, away from the weather.
 They should not be stacked any higher than the original factory packaging.
- They should be arranged to prevent damage to mechanisms of moving parts, and to avoid deformations of the device body due to excess loads or humidity.

PROTECTING THE EQUIPMENT DURING INSTALLATION

- Although the fire damper, and more particularly its mechanism, is protected by a synthetic material cover, it should be protected from projections of any kind (mortar, paint, sprayed cladding, etc.) that may affect the operation of the trip devices and signalling devices.
- The equipment should also be protected against the risk of water run-off or high condensation, both for the refractory part and the metal parts, or electromagnetic components.
- All suitable precautions should be taken to prevent premature ageing of the equipment before they are put into service in completed installations.
- Wedging and filling in order to seal devices in place correctly should not cause deformations likely to adversely affect the operation of the fire damper.

EQUIPMENT INSPECTION PRIOR TO ACTIVATION OF SYSTEMS

 The dampers should be maintained in mechanical standby position before the ventilation systems are effectively put into service, so as not to apply forces to the retention devices or trip devices until the normal operating conditions are met.

MAINTENANCE

- Take all suitable precautions for performing work on the mechanism of a rotating mechanism that features gears and powerful springs.
- As all the elements should be powered using Very Low Safety Voltage, earthing is not necessary. We recommend that work be done with power off, to prevent short circuits that may damage the device.
- The cover protecting the mechanism must be replaced in the correct position after each time it is removed.
- Depending on the type of building, periodical test manoeuvres are planned (see NF S 61933). We recommend a minimum of one annual manoeuvre inspection.



Replacement and Maintenance

 In 1984, ALDES took over SGEI, France's leading company in the field of fire dampers and smoke extraction dampers. Even today, ALDES can provide quick and easy replacements for these products.

Replacement



Fire dampers **p. 159**



Cartridges **p. 164**



Smoke extraction dampers **p. 165**



Smoke extraction fans **p. 167**



Replacement of Fire Dampers

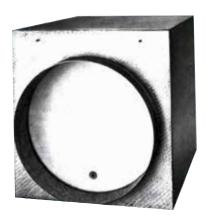
The fire dampers listed below were manufactured by SGEI prior to 1984. Their replacement can be optimised by using the current models from the first section.

V series: Offset blade which works with gravity



- VRF P1 = Fire Damping 1
 h / Flame Resistant 1
 h CTICM Report 1977.
- VRF P2 = Fire Damping 2 h / Flame Resistant 2 h CTICM Report - 1977.
- VRF 2 = Fire Damping 2 h / Flame Resistant 4 h CSTB Report - 1975.
- VCF 24 = Fire Damping 4 h / Flame Resistant 4 h CSTB Report - 1971.
- Normally open or normally closed.
- Installation in series.
- Connected using sleeves, flanges or shells.
- Upgradable mechanism:
- FTE for Normally Open version.
- VM or VDS.
- FCU, DCU, FCB or DCB.
- CM.

CCF 2: Blade outside the air flow which works with gravity (also CCF 2AP, CCF P2 & CCF P2AP)



- Fire damping 1 hour or 2 hours without pressure loss.
- Normally open.
- CSTB Report 1972.
- Up to 500 mm slot fitted onto the casing shell.
- FTE 70° with inspection hatch.
- DCU.

Our current range of fire dampers can easily replace SGEI models.

For circular ducts:



ISONE® FdP

For rectangular DUCTS:



ISONE/Ap



ISONE rectangular



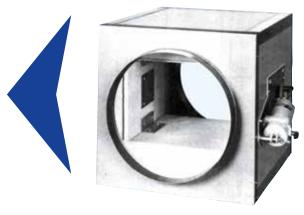


Replacement of Fire Dampers

GLOSSARY

- FTE = Thermal Fuse.
- VM = Current breaking electromagnet.
- VDS = Current making electromagnet.
- FCU = End of travel contact.
- DCU Start of travel contact.
- CM = Manual contact.

VRCF 2: Damper with rotating drum



- Fire damping 2 h
 & flame resistant 2 h
 without pressure loss.
- Normally open or normally closed.
- Report by the CTICM -1977.
- Up to 500 mm slot fitted onto the casing shell.
- FTE for Normally Open version.
- VM or VDS.
- FCU and/or DCU.
- Reset motor.

VRFU: universal fire damper (any air flow and fire direction)

There are no spare parts for these mechanisms. It is still possible to adapt a VRFI mechanism using the U/I kit - see page 161.



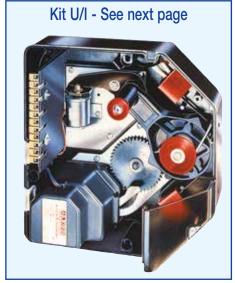
- Without pressure loss:
 - VRFU P1 = Fire Damping 1 h / Flame Resistant 1 h: CTICM Report 1977,
- VRFU P2 = Flame Damping 2 h / Flame Resistant 2 h: CTICM Report 1977.
- VRFU 2 = Flame Damping 2 h / Flame Resistant 4 h: CTICM Report 1975,
- VCFU 24 = Flame Damping 4 h / Flame Resistant 4 h: CSTB Report 1974.
- With pressure loss:
 - The VRFU P2 was qualified for Fire Damping 2 h / 500 Pa as per the Decree of the 21st April 1983,
 - VRFU 2.15 = Fire Damping 2 h at 1500 Pa: CCTICM Report 1980.
- Normally open or normally closed.
- Fitted with an intumescent seal.
- Connected using sleeves, flanges or shells.
- Installation in series.
- Upgradable VRFU mechanism: FTE for Normally Open version,
 - VM or VDS,
 - FCU and/or DCU,
 - CM,
 - Reset motor.

VRFU mechanism



 In the event that the body of the VRFU is still in good condition, it is possible to change just the mechanism.







Kit U/I: Adaptation of VRFI mechanism to VRFU fire damper

FIELD OF APPLICATION

The U/I adapter kit has been especially created to enable "U" series dampers to be upgraded to a compact and monobloc solution for VRFI type dampers and to take advantage of the most recent innovations available for this family of products.

The aim is also to fulfil the new safety standard for buildings, NF-S 61.937 from December 1990, which has replaced the IT 247 technical instruction from March 1982.

Finally, the main objective is to be able to securely reset the electrical equipment remotely and reliably.

To achieve this, Aldes sub-assemblies for tripping, indicating and resetting offer safety regulations and can only be assured by an advanced level of industrialisation.

From this perspective, an older damper from the "U" series is capable of everything that a VRFI mechanism can do.

In the case where the NF-S 61.937 standard is required, it would be advisable to consult the relevant authority.

Required equipment

- Basic sub-assembly (mounting-plate, pin, box, etc.) : code 110 41.599.
- Arm puller, code 111 41.609.
- Hole saw HD Ø25 mm (for FTE adaptation only), code 110 41.610.

Optional equipment

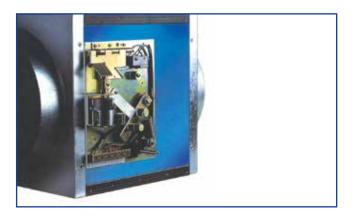
- 70° thermal fuse: FTE.
- Electric tripping device by 24 or 48 Vdc impulse: VDS.
- Electric tripping device by 24 or 48 Vdc break: VM.
- Single-pole open position switch contact: DCU.
- Single-pole closed position switch contact: FCU.
- Bipolar open position switch contact: DCB.
- Bipolar closed position switch contact: FCB.
- Electrical reset motor B 20 S 24/48 V: REARELEC.

The control equipment is mounted and connected to a standardised 12-pin terminal block terminal block or a special 16-pin blockas required.

ORIGINAL VRFU DAMPER MECHANISM

Once you have ensured that the damper to be transformed is in good working order (internally and externally) and once you have checked that it is possible to remove the fixed part of the metal cover, it may be necessary to increase the size of the openings in the walls in order to install the new box.

The opening can be resealed once the tests and checks have been completed.

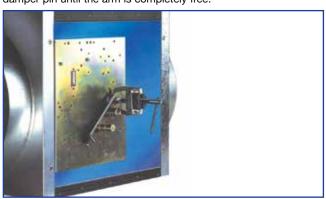




STRIPPING THE VRFU MECHANISM PANEL

Remove all of the equipment present in view no. 1 and then place the arm puller at the end of the pin so that it pushes underneath the arm (make sure the arm blocking clip is removed).

Screw in the extractor screw, ensuring that it remains in line with the damper pin until the arm is completely free.



FITTING THE ADAPTER PLATE TO THE VRFU PLATE

Insert the self-lubricating washer provided (2).

Push on the intermediate adapter shaft (3) then tighten the two locking screws.

Introduce the mounting-plate (4) by fixing it to the new shaft, ensure it is aligned then attach it using the 4 screws and washers (5).

If a thermal fuse is used, it will be necessary to perforate the original steel plate using the high-durability hole saw (14) as well as the damper refractory using a low-speed drill; the metal barrel set against the mounting-plate will guide this operation.



Kit U/I: Adaptation of VRFI mechanism to VRFU fire damper

SETTING UP THE MECHANISM BOX

Position the base of the black box by sliding it against the counter-plate until the two adjustment fins are flush with the special metal extension.

Insert the two screws (7), then the three screws (8) which are also used to attach the resetting motor (15) (these screws are self-tapping).

Fit the operating arm (9), the return spring (10) by pinching it lightly and then the two support parts (12) and screw the central screw (the spring 10a, which is bigger, is supplied for dampers for which the size and/or resetting require it).



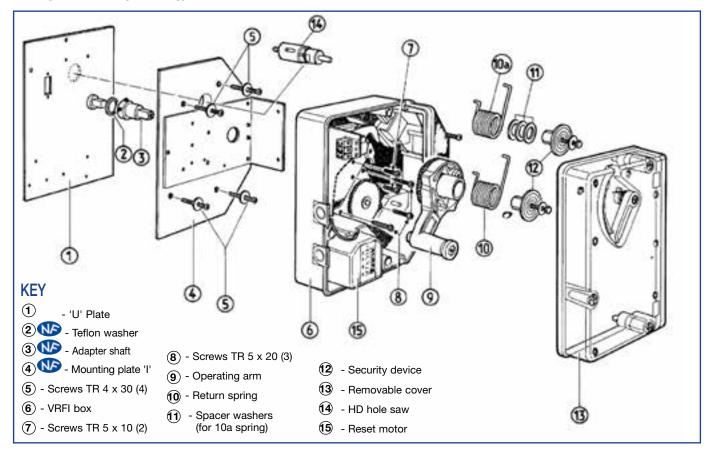
FINAL CONFIGURATION OF THE MODIFIED VRFU DAMPER

Operate the control lever freely, making sure that all elements are properly attached and then proceed with testing the electrical trip and resetting controls, once you have checked the various connections to the terminal. Attach the removable part of the cover (13) to the box.

Finally, and only if everything is in good working order, reseal the wall as necessary (fixed and opaque part of the cover only).



EXPLODED VIEW OF THE U/I ADAPTER KIT





Replacement function controller

'CMSI/SIMUL'





ALDES CONTROL PACK FUNCTION CONTROLLER

To perfect and facilitate the various controls, verifications and adjustments that precede the start of any installation, ALDES has designed **and marketed** a portable automatic **functions controller** called "ALDES CONTROL", which is autonomous and can be recharged from the mains supply. Its ergonomics and simplicity of use make it an indispensable tool for safety/security professionals.

Once it has been connected to the electrical terminal of an ALDES fire damper or smoke exhaust damper using a quick-fit multi-pin connector, it allows the simulation of the various centralised control system sequences and the **testing** of the functions of all of the components present such as:

• The electromagnetic emission tripping device powered by a series of time-delayed impulses,

- The position indicator contacts, using green and red LEDs to show the standby or safety position status,
- The reset servo-motor with a power indicator lit whist the cycle is active.
- Priority given to the safety position on the fire damper or smoke exhaust damper (D.A.S.).
- The correct electrical connection for all the components on the single or plug-in terminal.

In addition, the voltage is automatically selected (24 or 48 VDC) for the correct operation of the equipment, and ensures about one hundred or so successive tests without recharge in the case of a complete configuration.

aldes

Replacement of cartridges

The following damper cartridges are no longer manufactured. No more spare parts exist. Their replacement can be optimised by using the current models from the first section.

CVI: With intumescent blades



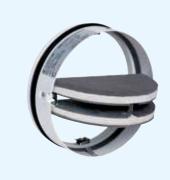
CPF - Circular

- Damping 1 h & 2 h / Flame resistant 2 h.
- CTICM Report 1977, test without pressure loss.
- Normally open.
- Ø 100, 125 or 160 mm.
- No possible equipment, except for the 70°C fuse.





CF₂



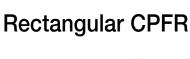


- Damping 1/2 h / Flame resistant 2 h.
- CTICM Report 1975, test without pressure loss.
- Normally open.
- Ø 100 to 400 mm.
- No possible equipment, except for the 70°C fuse.

 Damping 1/2 h / Flame resistant 2 h.

• CTICM Report - 1975, test without pressure

Normally open.
X = 100 to 350 mm, Y = 200 to 500 mm.
No possible equipment, except for the 70°C fuse.





SV 1 - SV 2

- Damping 1 h & 2 h / Flame resistant 1 h & 2 h.
- Thermal fuse nut.
- CSTB Report 1972, test without pressure loss.
- Normally open.
- Ø 100 to 200 mm.
- No possible equipment, except for the 70°C fuse.









Replacement of dampers

The following dampers are no longer manufactured. They can be replaced by current models.

→ The old SGEI, GCF and GDF type dampers can be replaced with the current models bearing the same name.

PCF: Gate type damper



VRFU: tunnel damper

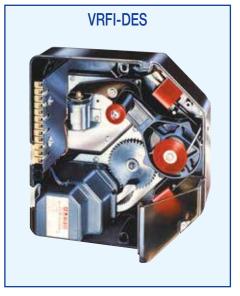


- PCF 1 = damping 1 h.
- PCF 2 = damping 2 h.
- 1 flap only.
- Embedded or wall mounted versions.

FOLLOWING ON FROM CE MARKING, OBLIGATORY SINCE THE 1ST FEBRUARY 2013 SEE PAGES 86-87

 Previously known as 'clapet NF' (Normally closed damper), the VRFU tunnel damper was sold up until 1987.





GMAD: Air inlet with mobile fins



- Conforms to NF-S 61.937.
- Facade mounting.
- No damping degree.





Replacement of dampers

GLOSSARY

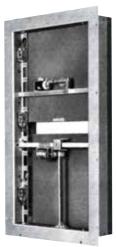
- VM = Current breaking electromagnet VDS = Current making electromagnet FCU = End of travel contact DCU Start of travel contact CM = Manual contact
- GVT 2 S: Transfer guillotine damper



- Damping 2 h.
- Flame resistant 2 h.
- Normally closed.
- CTICM Report 1975.
- VM or VDS.
- FCU and/or DCU.
- CM.

FOLLOWING ON FROM CE MARKING, OBLIGATORY SINCE THE 1ST FEBRUARY 2013 SEE PAGES 86-87





- Damping 2 h.
- Flame resistant 2 h.
- Normally closed.
- Additional 'ventilation' setting.
- Two tripping devices.
- CSTB Report 1974.
- VM or VDS.
- FCU and/or DCU.
- CM.

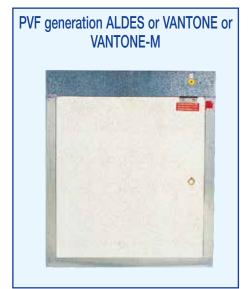
GCF-CF1^H30



PVF: Gate type damper (SGEI generation)



- Damping 1 h.
- Damping 2 h.
- Flame resistant 2 h.
- Normally closed.
- Mechanism in a protected magazine.
- VM or VDS.
- FCU and/or DCU.
- CM.





Replacement of smoke exhaust fans

CDA & CYCLONE II smoke exhaust dampers



- Class 400°C 2 H.
- Direct drive.



- Class 400°C 2 H.
- Belt & pulley drive.

CYCLONE & EXONE smoke extraction casing



- Class 400°C 2 H.
- Belt & pulley drive.



- Class 400°C 2 H.
- Direct drive.

CYCLONE F 400 For 'smoke extraction only' applications EXONE F400 EXONE F400 EXONE F400 For a "mixed smoke exhaust" installation.

AXONE relay box



- First relay unit with integrated emergency service shutdown.
- Conforms to NF-S 61.937.
- Single or 3-phased.
- 1 or 2 speed(s).



- First electronic relay box.
- Conforms to NF-S 61.937.
- Single or 3-phased.
- 1 or 2 speed(s).



AXONE micro II Certified since 01.01.2000.

VELONE1 smoke exhaust roof fan



- Class 400° 2h.
- Direct drive.
- Manufactured up to May 2007





ISONE mechanism on ISONE, ISONE/Ap & VRFIsone dampers

THERMAL TRIP

| Description | Code |
|---|----------|
| Kit FTE 70° ISONE | 11043400 |
| Packet of 10 fuses - 70° ISONE - VRFI after 09.2000 | 11043401 |
| Packet of 10 fuses - 100°C ISONE | 11043414 |

Electromagnetic & manual tripping device

| Description | Code |
|---------------------------------|----------|
| VDS 24/48 VDC electromagnet kit | 11043407 |
| VM 24/48 VDC electromagnet kit | 11043408 |
| Manual tripping kit | 11043411 |

SIGNALLING CONTACTS

| Description | Code |
|--|----------|
| FCU1 kit - ISONE without electromagnet | 11043402 |
| DCU1 kit - ISONE without electromagnet | 11043403 |
| FCU1 + DCU1 kit ISONE without electromagnet | 11043404 |
| FCU1 kit - ISONE with electromagnet | 11043405 |
| FCU1 + DCU1 kit ISONE with electromagnet | 11043406 |
| FCU2 + DCU2 Kit | 11043409 |

RESET MOTOR

| Description | Code |
|-----------------|----------|
| Reset motor kit | 11043410 |

MISCELLANEOUS

| Description | Code |
|--|----------|
| Complete transparent cover | 11043413 |
| Blue main control box + manual control | 11043412 |
| 10-pin connector terminal (electromagnet, motor, FCU1, DCU1) | 11041930 |
| 6-pin connector terminal - Terminals 1 to 6 (FCU1 + DCU1) | 11041931 |
| 6-pin connector terminal - Terminals 11 to 16 (FCU2 + DCU2) | 11041932 |

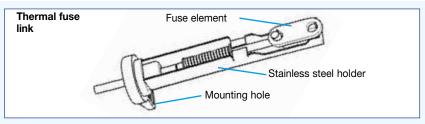
ISONE and ISONE/Ap bodies

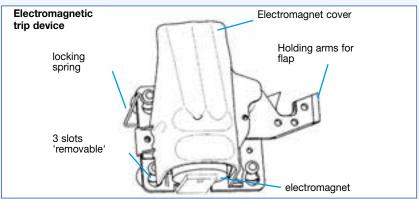
CONCENTRIC CIRCULAR REDUCERS

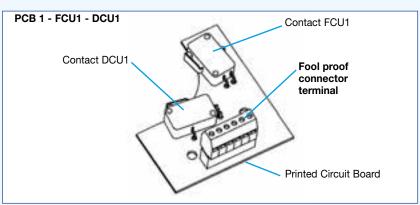
| Description | Code |
|------------------------|----------|
| RCC Ø 160-100 ISONE | 11143574 |
| RCC Ø 160-125 ISONE | 11143575 |
| RCC Ø 200-100 ISONE/AP | 11041933 |
| RCC Ø 200-125 ISONE/AP | 11041934 |
| RCC Ø 200-160 ISONE/AP | 11041935 |

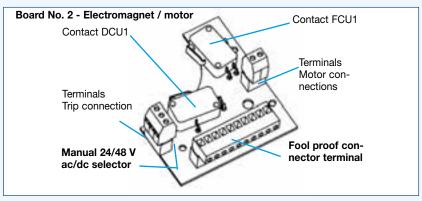
Aeraulic airtight seal kits

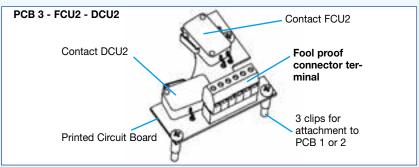
| Description | Code |
|--------------|----------|
| 1 seal Ø 100 | 11184763 |
| 1 seal Ø 125 | 11184764 |
| 1 seal Ø 160 | 11184765 |
| 1 seal Ø 200 | 11184766 |
| 1 seal Ø 250 | 11184767 |
| 1 seal Ø 315 | 11184768 |
| 1 seal Ø 355 | 11184769 |
| 1 seal Ø 400 | 11184770 |
| 1 seal Ø 450 | 11184771 |
| 1 seal Ø 500 | 11184772 |













Oblong Ring Mounting for rectangular ISONE

FIELD OF APPLICATION

 Used to connect an oblong ductwork to a rectangular Isone fire damper.

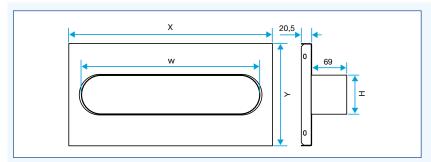
DESCRIPTION

- Galvanised steel shell suitable for an ISONE rectangular damper.
- Use two ring mountings to connect a damper on each side.

X x Y = dimensions of rectangular ISONE. W x H = dimensions of oblong ducts.

RANGE

| X x Y (mm) | W x H (mm) | Code |
|------------|------------|----------|
| 400 x 200 | 360 x 80 | 11043350 |
| 400 x 200 | 350 x 150 | 11043351 |
| 500 x 200 | 450 x 100 | 11043352 |
| 350 x 200 | 325 x 130 | 11043353 |
| 450 x 200 | 425 x 130 | 11043354 |
| 550 x 200 | 490 x 130 | 11043355 |
| 450 x 200 | 410 x 165 | 11043356 |
| 500 x 200 | 475 x 156 | 11043357 |
| 600 x 200 | 545 x 165 | 11043358 |
| 750 x 250 | 700 x 165 | 11043359 |
| 550 x 250 | 515 x 215 | 11043360 |
| 700 x 250 | 675 x 215 | 11043361 |
| 950 x 350 | 880 x 215 | 11043362 |
| 700 x 300 | 645 x 265 | 11043363 |
| 900 x 300 | 850 x 265 | 11043364 |
| 1000 x 350 | 975 x 265 | 11043365 |
| 850 x 350 | 820 x 320 | 11043366 |
| 1000 x 350 | 950 x 320 | 11043367 |
| 800 x 450 | 765 x 415 | 11043368 |
| 950 x 450 | 895 x 415 | 11043369 |
| 650 x 350 | 620 x 320 | 11043370 |



VRFI mechanism

THERMAL TRIP

| Description | Code |
|---|----------|
| FTE 70°C VRFI kit | 11041750 |
| Packet of 10 70°C fuses for ISONE VRFI - after 01/09/2000 | 11043401 |
| Packet of 10 100°C fuses for VRFI - after 01/09/2000 | 11043414 |

Electromagnetic trip device

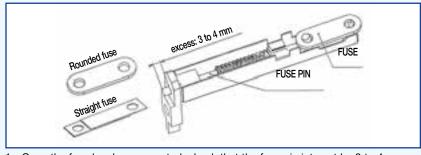
| Description | Code |
|-------------------------------|----------|
| VDS 24 Vdc electromagnet kit | 11041754 |
| VDS 48 Vdc electromagnet kit | 11041755 |
| VDS 230 VDA electromagnet kit | 11041756 |
| VM 24 Vdc electromagnet kit | 11041758 |
| VM 48 Vdc electromagnet kit | 11041759 |
| VDS 230 VDA electromagnet kit | 11041760 |

SIGNALLING CONTACTS

| Description | Code |
|----------------|----------|
| FCU or DCU kit | 11041762 |
| FCU + DCU kit | 11041763 |
| FCB kit | 11041764 |
| DCB kit | 11041765 |

IDENTIFICATION OF THE THERMAL FUSE LINK OF THE VRFI

- Before 01.09.2000: thermal fuse link bi-chromate galvanised steel pin with straight-edge fuse (not available).
- After 01.09.2000: thermal fuse link white galvanised steel pin with rounded-edge fuse.

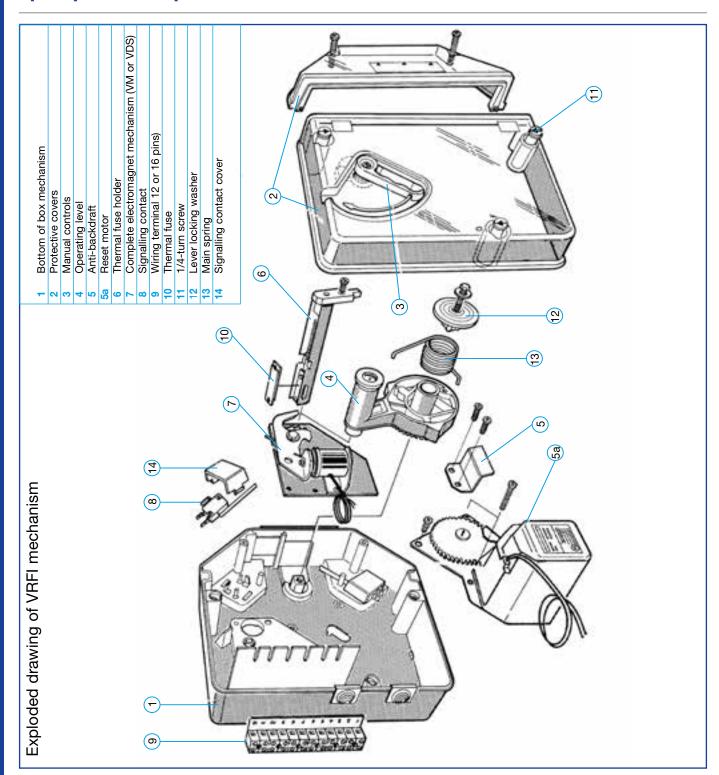


- 1 Once the fuse has been mounted, check that the fuse pin juts out by 3 to 4 mm.
- 2 Rounded fuse with white galvanised fuse pin.
- 3 Straight fuse with bi-chromate galvanised fuse pin.
- Fuses with rounded edges sold since 1st September 2000 should be positioned on thermal fuse links with a white galvanised pin.
- Straight-edge fuses are no longer available. Replacing them requires the thermal fuse link to be changed.

RESET MOTOR

| Description | Code |
|--|----------|
| Motor kit - B 20 S 24/48V | 11041777 |
| 230/24 Vac kit for B 20 S (not compliant with NF-S 61.937) | 11041778 |





MISCELLANEOUS

| Description | Code |
|--|----------|
| Fixed & mobile cover sub-assembly (2) + (3) + (11) | 11041767 |
| Main black box (bare) (1) | 11142999 |
| Packet of 10 1/4 turn screws for mobile cover (11) | 11142995 |
| Packet of 5 springs - Ø 2.8 (13) | 11142954 |
| Packet of 5 springs - Ø 3.5 (13) | 11142924 |
| Aftersales Spring kit (13) | 11041914 |
| Reset lever kit (12) + (4) | 11080794 |
| Connectivity kit VRFI/ISONE 10 pin | 11141928 |
| Connectivity kit VRFI/ISONE 16 pin | 11141947 |

Flange insulation for VRFI/Ap

| Description | Code |
|---|----------|
| VRFI/Ap flange insulation kit | 11041295 |
| Cover kit for VRFI/Ap flange insulation | 11041296 |
| VRFI/Ap flange insulation kit | 11041297 |

CF and PF cartridges

THERMAL FUSES

| Description | Code |
|-----------------------------------|----------|
| Packet of 10 thermal fuses - 70°C | 11040321 |



VANTONE gate type dampers and all PVF models (after January 1992)

Electromagnetic trip device

| Description | Code |
|---|----------|
| VDS 24 VDC lock | 11041896 |
| VDS 48 VDC lock | 11041897 |
| VM 24 VDC lock | 11041898 |
| VM 48 VDC lock | 11041899 |
| Square head safety kit (high rise buildings) for lock | 11045000 |
| Lock latch from 1995 onwards | 11041946 |

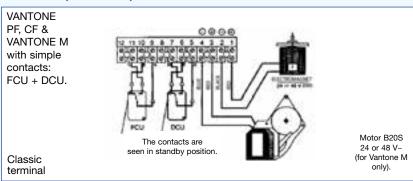
BODY

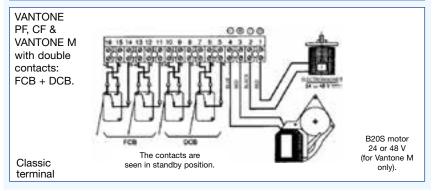
| Description | Code |
|---|----------|
| Mechanism cover for fixing grille using metric screws | 11041926 |
| Mechanism cover for 1/4 turn screws | 11045016 |
| STOPAIR sealing kit (50 metres) | 11041867 |
| VANTONE backdraft kit | 11044115 |
| VANTONE ring + threaded rod | 11048811 |

SIGNALLING CONTACTS

| Description | Code |
|--|----------|
| VANTONE PVF FCU or DCU kit (since 01/1992) | 11041876 |
| VANTONE PVF FCB or DCB kit (since 01/1992) | 11041868 |
| Unpluggable terminal support kit | 11041975 |
| 10-pin unpluggable terminal kit | 11041976 |
| 6-pin unpluggable terminal kit | 11041977 |

VANTONE prior to September 2005





VANTONE-M gate type dampers and all PVFM models

RESET MOTOR

| Description | Code |
|------------------------|------------|
| Motor B 20 S 24/48 kit | 110 41.797 |

SIGNALLING CONTACTS

| Description | Code |
|--------------------------------|----------|
| FCU or DCU VANTONE-M, PVFM Kit | 11041796 |

RODA

| Description | Code |
|--|----------|
| VANTONE-M/PVFM mechanism cover for metric screws | 11041925 |
| VANTONE-M/PVFM mechanism cover for 1/4 turn screws | 11045039 |
| STOPAIR sealing kit (50 metres) | 11041867 |

Electromagnetic trip device

Idem VANTONE, see above.

PVF gate type dampers (before January 1992)

Electromagnetic tripping device (rotating)

| | • |
|---------------------|----------|
| Description | Code |
| VDS rotating 24 VDC | 11044106 |
| VDS rotating 48 VDC | 11044107 |
| VM rotating 24 VDC | 11044108 |
| VM rotating 48 VDC | 11044109 |

BODY

| Description | Code |
|--|----------|
| VANTONE-M/PVFM mechanism cover for metric screws | 11041926 |
| VANTONE-M/PVFM mechanism cover for 1/4 turn screws | 11045016 |
| STOPAIR sealing kit (50 metres) | 11041867 |

SIGNALLING CONTACTS

| Description | Code |
|-------------------------|----------|
| FCU kit (large contact) | 11041791 |
| DCU kit (large contact) | 11041792 |

OPTONE gate type dampers

| J J. 1 = gald 1, pe al | ٠ الم م |
|-----------------------------|----------|
| Description | Code |
| S.E Trip OPTONE.H VDS 24Vdc | 11148068 |
| S.E Trip OPTONE VDS 24Vdc | 11148757 |
| S.E Trip OPTONE VDS 48Vdc | 11148756 |
| S.E Trip OPTONE VM 24Vdc | 11148130 |
| S.E Trip OPTONE VM 48Vdc | 11148134 |

| Description | Code |
|----------------------------------|----------|
| S.E trim OPTONE.H | 11148544 |
| SE finned core (OPTONE + GRILLE) | 21121526 |
| SE Electronic unit OPTONE | 11148443 |
| SE Comb OPTONE | 21121501 |
| Accessories kit - OPTONE fixings | 11148523 |
| LOCKTONE MOTOR KIT | 11044398 |



GFA Alu grilles

SPARE PARTS

| Description | Code |
|--|----------|
| Fixing rail for 1/4 turn GFA fitting | 11041927 |
| Bag of 20 metric screws kit | 11041921 |
| Bag of 20 clips kit | 11041922 |
| Bag of 10 1/4 turn slotted head screws | 11041923 |
| Bag of 10 1/4 turn square head safety screws | 11041924 |
| Hinge kit (2 hinges) | 11041915 |
| Bag of 20 GFA fixing plates | 11048924 |

REMINDER OF DAMPER GRILLE CODES

| Description | Code |
|----------------------|----------|
| Alu PVF 1V GFA | 11045026 |
| Alu PVF 2V GFA | 11045146 |
| VANTONE 1V GFA steel | 11045561 |
| VANTONE 2V GFA steel | 11045562 |
| VANTONE-M GFA steel | 11045564 |

GFA Alu PVF-M: select GFA Alu PVF 1V with Y + 50 mm. The steel GFAs have 45 x45 mm meshing.

PCF gate type dampers

Electromagnetic tripping device (after March 1995)

| Description | Code |
|-----------------|----------|
| VDS 24 Vdc lock | 11041900 |
| VDS 48 Vdc lock | 11041901 |
| VM 24 Vdc lock | 11041902 |
| VM 48 Vdc lock | 11041903 |

GCF-GDF transfer guillotine dampers

(ROTATING) ELECTROMAGNETIC TRIP for GCF

SIGNALLING CONTACTS

| Description | Code |
|----------------------------|----------|
| DCU or FCU - GCF - GDF kit | 11041875 |

MISCELLANEOUS

| Description | Code |
|-------------------|----------|
| GCF - GDF box kit | 11041879 |

70°C thermal fuse link for GDF

| Description | Code |
|---|----------|
| Fuse sub-assembly + holder - After March 1995 | 11041916 |
| Note: No fuse - spare parts only | |

CAMELEONE and OXYTONE

Electromagnetic trip device

| Description | Code |
|----------------------------|----------|
| Kit VDS 24 Vdc - Cameleone | 11044067 |
| Kit VDS 48 Vdc - Cameleone | 11044068 |
| Kit VM 24 Vdc - Cameleone | 11044069 |
| Kit VM 48 Vdc - Cameleone | 11044070 |

SIGNALLING CONTACTS

| Description | Code |
|-----------------------------------|----------|
| FCU kit - Cameleone | 11044065 |
| DCU kit - Cameleone | 11044066 |
| FCU + DCU kit- Cameleone | 11044071 |
| Packet of 10 contacts - Cameleone | 11044072 |

MISCELLANEOUS

| Description | Code | |
|--|----------|--|
| Cameleone | | |
| BSIA 24/48 making current connection box | 11186256 | |
| BSIA 24/48 breaking current connection box | 11186585 | |
| Belimo BLF 24V motor | 11186583 | |
| Belimo BLF 48V motor | 11186584 | |
| Oxytone | | |
| FCU Kit | 11044190 | |
| DCU Kit | 11044191 | |
| FCU + DCU kit | 11044192 | |
| FCB + DCB Kit | 11044193 | |

OXYTONE LAMES 2012-2013 bladed air inlet

Please consult us.

OXYTONE PANNEAU & OXYTONE PANNEAU 2012

Please consult us.



Spare parts - Fans

CYCLONE F400 casings

RFIT

| Description | Code |
|----------------------------|----------|
| Belt section SPZ - LP 1420 | 11039379 |
| Belt section SPZ - LP 1437 | 11039380 |
| Belt section SPZ - LP 1450 | 11039381 |
| Belt section SPZ - LP 1587 | 11039382 |
| Belt section SPZ - LP 1650 | 11039383 |
| Belt section SPA - LP 1737 | 11039384 |
| Belt section SPA - LP 1750 | 11039385 |
| Belt section SPA - LP 1782 | 11039386 |
| Belt section SPA - LP 1950 | 11039387 |
| Belt section SPA - LP 2000 | 11039388 |
| Belt section SPA - LP 2240 | 11039389 |
| Belt section SPB - LP 2120 | 11039390 |
| Belt section SPB - LP 2180 | 11039391 |
| Belt section SPB - LP 2650 | 11039392 |
| Belt section SPB - LP 2800 | 11039393 |
| Belt section SPB - LP 3000 | 11039394 |
| Belt section SPZ - LP 1800 | 11039455 |
| Belt section SPB - LP 2580 | 11039456 |
| Belt section SPZ - LP 1562 | 11039477 |
| Belt section SPZ - LP 1600 | 11039478 |
| Belt section SPZ - LP 1700 | 11039479 |
| Belt section SPZ - LP 1737 | 11039480 |
| Belt section SPZ - LP 1750 | 11039481 |
| Belt section SPA - LP 1882 | 11039482 |
| Belt section SPA - LP 1900 | 11039483 |

BELT

| Description | Code |
|----------------------------|----------|
| Belt section SPA - LP 2120 | 11039484 |
| Belt section SPA - LP 2180 | 11039485 |
| Belt section SPA - LP 2430 | 11039486 |
| Belt section SPB - LP 2240 | 11039487 |
| Belt section SPB - LP 2300 | 11039488 |
| Belt section SPB - LP 2360 | 11039489 |
| Belt section SPB - LP 2430 | 11039490 |
| Belt section SPB - LP 2530 | 11039491 |
| Belt section SPB - LP 2900 | 11039492 |
| Belt section SPB - LP 3170 | 11039493 |
| Belt section SPB - LP 3250 | 11039494 |

S/A SCROLL SHAFT BAR BEARING

| Description | Code |
|--|----------|
| S/A SCROLL SHAFT BAR BEARING CYCLONE 225 | 11100269 |
| S/A SCROLL SHAFT BAR BEARING CYCLONE 250 | 11100270 |
| S/A SCROLL SHAFT BAR BEARING CYCLONE 280 | 11100271 |
| S/A SCROLL SHAFT BAR BEARING CYCLONE 315 | 11100272 |
| S/A SCROLL SHAFT BAR BEARING CYCLONE 400 | 11100273 |
| S/A SCROLL SHAFT BAR BEARING CYCLONE 500 | 11100274 |

MOTOR MOUNT

| Description | Code |
|------------------------------------|----------|
| CYCLONE F400 - CC270 motor support | 11039396 |
| CYCLONE F400 - CC430 motor support | 11039397 |
| CYCLONE F400 - CC490 motor support | 11039398 |

MOTOR

| Description | Code |
|---|----------|
| CYCLONE F400 - 400V 4P 1.1kW motor | 11039400 |
| CYCLONE F400 - 400V 4P 1.5KW motor | 11039401 |
| CYCLONE F400 - 400V 4P 2.2KW motor | 11039402 |
| CYCLONE F400 - 400V 4P 3KW motor | 11039403 |
| CYCLONE F400 - 400V 4P 4KW motor | 11039404 |
| CYCLONE F400 - 400V 4P 5.5KW motor | 11039405 |
| CYCLONE F400 - 400V 4P 7.5KW motor | 11039406 |
| CYCLONE F400 - 400V 4P 11KW motor | 11039407 |
| CYCLONE F400 - 400V 4P 15KW motor | 11039408 |
| CYCLONE F400 - 400V 4P 22KW motor | 11039409 |
| CYCLONE F400 - 400V 4-8P 1.1/0.26 motor | 11039410 |
| CYCLONE F400 - 400V 4-8P 1.7/0.36 motor | 11039411 |
| CYCLONE F400 - 400V 4-8P 2.3/0.5 motor | 11039412 |
| CYCLONE F400 - 400V 4-8P 3/0.65 motor | 11039413 |
| CYCLONE F400 - 400V 4-8P 3.5/0.7 motor | 11039414 |
| CYCLONE F400 - 400V 4-8P 5/1 motor | 11039415 |
| CYCLONE F400 - 400V 4-8P 6.8/1.4 motor | 11039416 |
| CYCLONE F400 - 400V 4-8P 10.5/2.2 motor | 11039417 |
| CYCLONE F400 - 400V 4-8P 15.5/2.7 motor | 11039418 |
| CYCLONE F400 - 400V 4-8P 22.5/4.4 motor | 11039419 |
| CYCLONE F400 - 400V 4-6P 1/0.3 motor | 11039420 |
| CYCLONE F400 - 400V 4-6P 1.5/0.45 motor | 11039421 |
| CYCLONE F400 - 400V 4-6P 2.5/0.8 motor | 11039422 |
| CYCLONE F400 - 400V 4-6P 3/1 motor | 11039423 |
| CYCLONE F400 - 400V 4-6P 4.5/1.5 motor | 11039424 |
| CYCLONE F400 - 400V 4-6P 6/2 motor | 11039425 |
| CYCLONE F400 - 400V 4-6P 10.5/3.5 motor | 11039426 |
| CYCLONE F400 - 400V 4-6P 16/5 motor | 11039427 |
| CYCLONE F400 - 400V 4-6P 23/7.2 motor | 11039428 |

MOTOR HOOD

| Description | Code |
|-----------------------------------|----------|
| MOTOR BONNET CYCLONE F400 250 | 11100275 |
| MOTOR BONNET CYCLONE F400 315-355 | 11100276 |
| MOTOR BONNET CYCLONE F400 400 | 11100277 |
| MOTOR BONNET CYCLONE F400 500 | 11100278 |

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Spare parts - Fans

CYCLONE F400 casings

VARIABLE DRIVE PULLEY

| Description | Code |
|-----------------------------------|----------|
| Variable pulley - 1 PDV 93 AL 24 | 11039430 |
| Variable pulley - 1 PDV 121 AL 24 | 11039431 |
| Variable pulley - 1 PDV 121 AL 28 | 11039432 |
| Variable pulley - 2 PDV 121 AL 24 | 11039433 |
| Variable pulley - 2 PDV 121 AL 28 | 11039434 |
| Variable pulley - 2 PDV 138 AL 28 | 11039435 |
| Variable pulley - 2 PDV 138 AL 38 | 11039436 |
| Variable pulley - 2 PDV 138 AL 42 | 11039437 |
| Variable pulley - 2 PDV 160 AL 28 | 11039438 |
| Variable pulley - 2 PDV 160 AL 38 | 11039439 |
| Variable pulley - 2 PDV 160 AL 42 | 11039440 |
| Variable pulley - 2 PDV 180 AL 38 | 11039441 |
| Variable pulley - 2 PDV 180 AL 42 | 11039442 |
| Variable pulley - 2 PDV 180 AL 48 | 11039443 |
| Variable pulley - 2 PDV 160 AL 48 | 11039444 |

FIXED PULLEY

| Description | Code |
|--------------------------------|----------|
| Fixed pulley - 140.2 SPB AL 38 | 11039447 |
| Fixed pulley - 140.2 SPB AL 42 | 11039448 |
| Fixed pulley - 160.2 SPB AL 38 | 11039449 |
| Fixed pulley - 160.2 SPB AL 42 | 11039450 |
| Fixed pulley - 160.2 SPB AL 48 | 11039453 |
| Fixed pulley - 180.2 SPB AL 30 | 11039457 |
| Fixed pulley - 106.2 SPZ AL 24 | 11039458 |
| Fixed pulley - 106.2 SPZ AL 28 | 11039459 |
| Fixed pulley - 125.2 SPZ AL 28 | 11039460 |
| Fixed pulley - 132.2 SPA AL 28 | 11039461 |
| Fixed pulley - 132.2 SPZ AL 38 | 11039462 |
| Fixed pulley - 132.2 SPA AL 38 | 11039463 |
| Fixed pulley - 132.2 SPB AL 38 | 11039464 |
| Fixed pulley - 132.2 SPB AL 42 | 11039465 |
| Fixed pulley - 150.2 SPB AL 48 | 11039466 |
| Fixed pulley - 140.2 SPA AL 28 | 11039467 |
| Fixed pulley - 150.2 SPB AL 28 | 11039468 |
| Fixed pulley - 140.2 SPA AL 38 | 11039469 |
| Fixed pulley - 150.2 SPB AL 38 | 11039470 |
| Fixed pulley - 140.2 SPA AL 42 | 11039471 |
| Fixed pulley - 150.2 SPB AL 42 | 11039472 |
| Fixed pulley - 180.2 SPB AL 38 | 11039473 |
| Fixed pulley - 180.2 SPB AL 42 | 11039474 |
| Fixed pulley - 180.2 SPB AL 48 | 11039475 |
| Fixed pulley - 75.1 SPZ AL 20 | 11039363 |
| Fixed pulley - 80.1 SPZ AL 20 | 11039364 |
| Fixed pulley - 80.2 SPZ AL 20 | 11039365 |
| Fixed pulley - 85.2 SPZ AL 20 | 11039366 |
| Fixed pulley - 95.2 SPZ AL 20 | 11039367 |
| Fixed pulley - 95.2 SPA AL 25 | 11039368 |
| Fixed pulley - 112.2 SPA AL 25 | 11039369 |
| Fixed pulley - 132.2 SPA AL 25 | 11039370 |
| Fixed pulley - 180.2 SPA AL 30 | 11039371 |
| Fixed pulley - 140.2 SPB AL 30 | 11039372 |
| Fixed pulley - 150.2 SPB AL 30 | 11039373 |
| Fixed pulley - 160.2 SPB AL 30 | 11039374 |
| Fixed pulley - 224.2 SPB AL 35 | 11039375 |

Note: The fixed pulley can be adapted into a motor pulley or a receiver pulley.

Attention: The diameter of the shaft is specified in the descriptions with the letters AL (bore).



Spare parts - Fans

VELONE roof fans **C**€

1 speed single-phase electric motors

| Description | Code |
|-------------------------|----------|
| 1.1 kW motor - 4 poles | 11121809 |
| 0.75 kW motor - 4 poles | 11121909 |
| 0.37 kW motor - 4 poles | 11121910 |
| 0.24 kW motor - 4 poles | 11121911 |

2 speed three-phase electric motors

| Description | Code |
|---------------------------------------|----------|
| Motor 2-sp BI 400V 4-6P 0.75/0.25kW | 11121808 |
| Motor 2-sp BI 400V 4-6P 1.10/0.30KW | 11121807 |
| Motor 2-sp BI 400V 4-6P 1.50/0.37KW | 11121805 |
| Motor 2-sp BI 400V 6-8P 1.10/0.55kW | 11121804 |
| Motor 2-sp BI 400V 6-8P 2.20/1.30KW | 11121803 |
| Motor 2-sp BI 400V 6-8P 4/1.10KW | 11121802 |
| Motor 2-sp DAH 400V 4-8P 0.60/0.15kW | 11121801 |
| Motor 2-sp DAH 400V 4-8P 0.80/0.20KW | 11121800 |
| Motor 2-sp DAH 400V 4-8P 1.20/0.30KW | 11121799 |
| Motor 2-sp DAH 400V 4-8P 1.60/0.40KW | 11121795 |
| Motor 2-sp DAH 400V 6-12P 2.20/0.55kW | 11121794 |
| Motor 2-sp DAH 400V 6-12P 3/0.55kW | 11121792 |
| Motor 2-sp DAH 400V 6/12P 1.10/0.22kW | 11121791 |

1 speed three-phase electric motors

| - opera unite priase distante initiate | |
|--|----------|
| Description | Code |
| Motor 1-sp 230-400V 4P 0.37kW | 11121842 |
| Motor 1-sp 230-400V 4P 0.55KW | 11121841 |
| Motor 1-sp 230-400V 4P 0.75KW | 11121840 |
| Motor 1-sp 230-400V 4P 1.1KW | 11121839 |
| Motor 1-sp 230-400V 4P 1.5KW | 11121838 |
| Motor 1-sp 230-400V 6P 0.18kW | 11121833 |
| Motor 1-sp 230-400V 6P 0.37KW | 11121832 |
| Motor 1-sp 230-400V 6P 0.55KW | 11121831 |
| Motor 1-sp 230-400V 6P 1.1KW | 11121830 |
| Motor 1-sp 230-400V 6P 2.2KW | 11121829 |
| Motor 1-sp 230-400V 6P 3KW | 11121828 |
| Motor 1-sp 230-400V 6P 5.5KW | 11121827 |
| Motor 1-sp 230-400V 8P 0.37kW | 11121817 |
| Motor 1-sp 230-400V 8P 0.55KW | 11121816 |
| Motor 1-sp 230-400V 8P 1.1KW | 11121815 |
| Motor 1-sp 230-400V 8P 1.5KW | 11121814 |
| Motor 1-sp 230-400V 8P 3KW | 11121813 |

Roof fan transformer kit - replacing a VELONE 1 with a VELONE 2 (May 2007)

| Description | Code | |
|-------------------------------------|----------|---|
| VELONE base frame kit 533 / VELONE2 | 11021090 | Transforms VELONE1 Size 1 base - dimension 533 x 533 into VELONE2 Size 1 base 533 x 533 mm |
| VELONE base frame kit 698 / VELONE2 | 11021091 | Transforms VELONE1 Size 2 base - dimension 698 x 698 into VELONE2 Size 1 base 533 x 533 mm + Size 2 698 x 698 |
| VELONE base frame kit 698 / VELONE2 | 11021092 | Transforms VELONE1 Size 3 base - dimension 834 x 834 into VELONE2 Size 2 base 698 x 698 mm + Size 3 834 x 834 |
| VELONE base frame kit 984 / VELONE2 | 11021093 | Transforms VELONE1 Size 4 base - dimension 984 x 984 into VELONE2 Size 3 base 834 x 834 mm + Size 4 984 x 984 |

Replacing a VT roof fan with a VELONE 2 (May 2007)

| Description | Code | |
|--------------------------------|----------|-------------------|
| KIT VT 535 / VELONE 2 base 533 | 11021099 | Velone 2 - Size 1 |
| KIT VT 750 / VELONE 2 base 533 | 11021098 | Velone 2 - Size 1 |

Note: These kits are used to adapt an installation, remember to check the aeraulic characteristics.

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A sales network at your service

Agencies

Aldes Bordeaux

22, rue Gustave Eiffel - CS 20005 33693 Mérignac Cedex Phone 05 56 34 28 79 - Fax 05 56 34 34 25 Departments: 16-17-24-33-40-47-64

Aldes Clermont-Ferrand

ZI du Brézet Est - 11, rue Pierre Boulanger 63100 Clermont-Ferrand Phone 04 73 74 68 00 - Fax 04 73 90 48 67 Departments: 03-15-19-23-42-43-63-87

Aldes Dijon

10, rue Joseph-Jacquard 21300 Chenôve Phone 03 80 52 38 74 - Fax 03 80 52 35 85 Departments: 21-25-39-58-70-71-89-90

Aldes Grenoble

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Aldes Lille

Rue Jean Monnet - ZA du Grand Logis - Lompret 59840 Pérenchies

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Phone 04 78 78 89 89 - Fax 04 78 78 89 80 Departments: 69

Agence Ain - Vallée du Rhône

Phone 04 78 78 88 66- Fax 04 78 78 88 60 Departments: 01-07-26

Marseille : Aldes Aubagne

ZI les Paluds II 507, avenue des Paluds - 13400 Aubagne

507, avenue des Paluds - 13400 Aubagne Phone 04 42 62 80 20 - Fax 04 42 62 80 29 Departments: 13-83 (West)-84

Aldes Montpellier

ZAC Garosud
96, rue Mehdi Ben Barka
34070 Montpellier
Phone 04 67 42 16 16 - Fax 04 67 69 03 65
Departments: 11-30-34-48-66

Aldes Nancy

55, impasse Henri Becquerel Zone Industrielle - 54710 Ludres Phone 03 83 25 79 79 - Fax 03 83 25 78 81 Departments: 52-54-55-57-88 (South-West) The Aldes Sales network employs 200 people and boasts 18 sales agencies, storage warehouses and 6 regional distribution hubs.

Aldes Nantes

12, rue Jan Palach - ZAC de la Lorie BP 80405 - 44819 Saint-Herblain Cedex Phone 02 40 92 15 10 - Fax 02 40 92 14 27 Departments: 44-49-56-85

Aldes Nice

Routes des Cistes - Euro 95 - Bât. B ZI Les trois moulins - BP 164 06603 Antibes Cedex Phone 04 97 21 28 10 - Fax 04 93 33 19 13 Departments: 04-05-06-2A-83 (East)-98-2B

Paris : Aldes La Courneuve

75, rue Rateau - Bât C5 93127 La Courneuve Cedex Phone 01 43 11 10 10 - Fax 01 48 36 14 72 Departments: 60-75-92-93-95

Paris : Aldes Vitry

19, quai Jules Guesde 94400 Vitry Phone 01 43 91 65 65 - Fax 01 43 91 48 89 Departments: 77-78-91-94

Aldes Rennes

Route de Lorient - ZA Les Trois Marches Nord 35132 Vezin Le Coquet Phone 02 99 14 51 60 - Fax 02 99 14 57 92 Departments: 22-29-35-53

Aldes Rouen

ZI Parc de la basse Seine Rue de la grande Epine - BP 553 76800 Saint Etienne du Rouvray Phone 02 32 19 50 50 - Fax 02 35 61 05 73 Departments: 14-27-50-61-76

Aldes Strasbourg

13, rue du Port du Rhin - BP 18 67000 Strasbourg Phone 03 88 60 13 10 - Fax 03 88 61 54 10 Departments: 67-68-88 (Nord-est)

Aldes Toulouse

5, rue Caulet - ZAC Saint-Martin du Touch 31300 Toulouse Phone 05 34 60 44 60 - Fax 05 34 60 50 67 Departments: 09-12-31-32-46-65-81-82

Aldes Tours

27, rue du Colombier 37700 Saint-Pierre-des-Corps Phone 02 47 63 15 15 - Fax 02 47 32 08 23 Departments: 18-28-36-37-41-45-72-79-86

General Public Division

20, boulevard Joliot Curie - 69694 Vénissieux Cedex Phone 04 78 77 14 99 - Fax 04 78 77 14 90

Promotion and Specification Division, France

19, quai Jules Guesde - 94400 Vitry-sur-Seine Phone 01 43 91 65 65 - Direct 01 43 91 65 55 Fax 01 43 91 48 89

Central Warehouse in Mions (69)

- National logistics and storage hub.
- · Manufacture of ducts and accessories.
- Surface area of 18,600 m2.

Bienvenue chez Aldes ORANGO CONTROLLE PROPERTY OF THE PROPERT

Within your agency you can find:

- All product information (showroom, document library, etc.).
- A list of local training courses and events in the agency.
- All the services (advice, equipment rental, permanent stock, etc.) you need.

6 regional regional distribution hubs

- Lyon Marseille Nantes Paris Strasbourg
- Toulouse



Subsidiaries

EUROPE

Germany Aldes Lufttechnik

Fanny-Zobel-Str. 5, D-12435 Berlin Phone: +49 30 532 19 000 Fax: +49 30 532 19 001 www.aldes.de

Belgium Aldes Benelux

Rue Jean Verkruys 60 B-4681 Hermalle s/Argenteau Phone: +32 2725 1380 Fax:+ 32 27 25 1753 www.aldesbenelux.com

Spain Alder Venticontrol

Poligono Industrial Prado Overa C/Puerto Pajares, 29 28919 Leganes (MADRID) Phone: +34 91 428 20 12 Fax:+34 91 746 31 32 www.alderventicontrol.es

France Aldes France

20 boulevard Joliot Curie 69200 Vénissieux Phone: + 33(0)4 78 77 15 15 Fax: + 33(0)4 78 76 15 97 www.aldes.fr

Aldes S.P.A

Via Gran Bretagna, 35 41122 Modena (MO) Phone: +39 059 315 707 Fax:+39 059 313 374 www.aldes.it

Climovent Italia S.R.L

C. SO Industria 7 14010 DUSINO S. MICHELE Phone: +39 01 41 93 09 69 Fax:+39 01 41 93 04 70 www.climovent.com

NORTH AMERICA

Canada

Aldes Canada

100 rue Carter Saint-Léonard-d'Aston - Québec CANADA JOC 1MO Phone: +1 819 399-3400 l +1 800 262-0916 Fax: +1 819 399-4001 www.aeromatic-aldes.com

United States

American Aldes Ventilation Corporation

Northgate Center Business Park 4521 19th Street Court E, Ste 104 BRADENTON FL34203 Phone: +1 941 351 34 41 Fax:+1 941 351 34 42 www.americanaldes.com

MIDDLE EAST/ INDIAN OCEAN

United Arab Emirates Aldes Middle East (FZE)

P.O. Box 8653, SHARJAH Phone: +971 6 5578285 Fax:+971 6 5578405 www.aldes.ae

Mauritius

Aldes Mauritius Island Industrial Estate

La Tour Koenig Pointe Aux Sables ILE MAURICE Phone: + 230 234 2628 Fax: + 230 234 2665 www.aldes-reunion.com

Réunion island Aldes Réunion

15 rue du Maine ZAC Moufia 97400 SAINTE CLOTILDE Phone: +262 97 96 81 Fax:+262 28 78 94 www.aldes-reunion.com

ASIA

China

Aldes China

22F, No.1016 Dingxi Road Shanghai. 200050 PR China Phone: +86 21 62 26 11 72 Fax:+86 21 62 26 91 15

www.aldeschina.com



The Aldes Group is currently represented in more than 100 countries worldwide with a network of subsidiaries and distributors.

Aldes Head Office

20, boulevard Irène Joliot Curie 69694 Vénissieux Cedex – France Phone: + 33 (0)4 78 77 15 15 Fax: + 33 (0)4 78 76 15 97

Your contact in France*: International Department

20, boulevard Irène Joliot Curie 69694 Vénissieux Cedex – France E-mail : aldes_international@aldes.com Phone: + 33 (0)4 78 77 15 34 Fax: + 33 (0)4 78 77 15 56

Staff

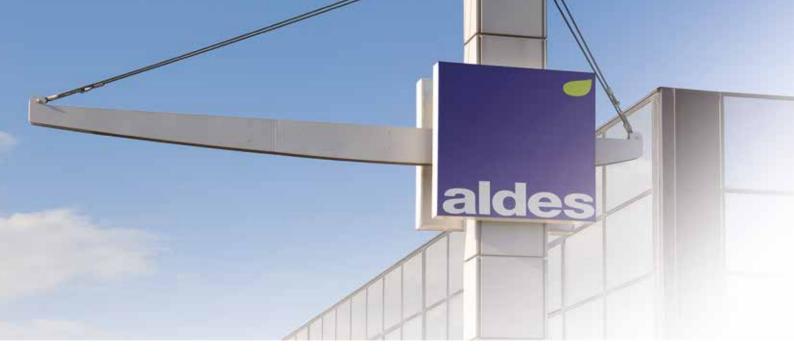
Export managers, in-house technicians and administrative assistants are available to help.

Design:

A dedicated team to supply the required information and advice. A team of experts in technical design and costing studies.

* For any country in which Aldes does not have a subsidiary, please contact our International Department.





Improving air quality and thermal comfort

Studies carried out on air quality inside buildings show the presence of a multitude of pollutants that are dangerous to health. At the same time, the building construction industry is confronted with an equally significant challenge - the reduction of greenhouse gases. Aldes products and

global solutions enable the industry to be fully capable of dealing with this important health and environmental issue, in accordance with the Grenelle Environment Forum and the requirements of RT2012.



Aldes Test Centre, fully adapted technical resources



For high performance products and customised solutions, the Aldes Test Centre uses human and technical

skills to advise and support its customers throughout the testing period until they are fully satisfied.

This means that Aldes can offer high quality products in terms of aeraulics, acoustics and aesthetic design, which also respect energy performance requirements.



Way ahead of the regulations.

RT 2012 Since the beginning, Aldes has always anticipated new regulations by putting products on the market with high-performance aeraulic, acoustic and energy saving qualities, which even exceed standard requirements. That's why products such as air diffusers (Twisted, Techlined), the micro-watt range of low energy fans (inoVEC micro-watt, Bahia Compact micro-watt), heat recovery ventilation systems (Dee Fly, DFE, DFR), the Modulated Ventilation system for Commercial Premises, ducts and accessories with Virtuo-fix seals, T.Zen domestic Températion[®] systems and the T.Flow thermodynamic water heater are already fully validated by the new RT2012 regulations.

Aldes is committed to protecting the environment.

As an active member of the Collective

Action Group "Isolons la Terre contre le CO2" (Let's insulate the Earth against CO2), Aldes has committed itself, together with 9 other industrial leaders in the construction sector, to a large-scale plan to reduce greenhouse gas emissions and energy consumption in buildings. This

Collective Action Group was responsible for the "Effinergie" energy efficiency label.







Go further with Aldes



In addition to its training programmes, Aldes also offers services to support those who are involved in their own specific capacity at each stage of the process, from project diagnosis to maintenance, in order to promote the

smooth operation of systems.

For indoor air quality and the comfort and safety of occupants, there are 4 types of services available:

Help with diagnostics

For new construction and retrofit projects, Aldes supplies its know-how in aeraulics to help you to analyse your buildings and recommends the best solution to suit your requirements.

Examples:

- Rental of measuring instruments.
- Measurement of a building's permeability.
- Measurement of a duct's permeability to air.
- Assistance with the inspection of installations.

Production support

Aldes teams are on hand in agencies or in the field to support you with the efficient installation of quality systems.

Examples:

- Installation guides.
- Participation, at your request, in a site coordination meeting.
- Help with checking the smooth operation of the installation and adjustment following test measures carried out on request.

Maintenance support

To ensure that the installations maintain their performance over the long term and that their maintenance is as simple as possible, Aldes offers you various services.

Examples:

- Technical information on the products for your installation.
- Spare parts management.
- Proposition of a standard maintenance contract for certain products.
- Offer of an extended warranty period (for certain products and under certain conditions).



The WEEE and ROHS European Directives have been transposed into French law.

Aldes has opted to render the eco-participation visible for all its electronic and electrical equipment, using the symbol of the crossed-out wheeled bin to identify them.

The eco-participation is invoiced by the producer and passed on in identical form right down to the end user for «household» class waste.

Aldes is a member of the ADEME group of producers.

Aldes is a member of the «Eco-Systèmes» environmental organisation, which collects and processes WEEE. The price list is available on www.eco-systemes.fr

Battery recycling

Some of our equipment uses batteries. In accordance with decree 2009-1139 of 22 September 2009, information concerning the identification, insertion and removal of batteries is included in the instruction leaflets. At the end of their service life, batteries should be taken to appropriate collection points.

REACH European Regulation

(Registration, Evaluation, Authorisation of Chemica substances).

In accordance with the REACH directive, regulation no. 1907/2006/CE, we provide our customers with the information featured in article 33.1 of the regulation for all products sold containing items on the list of chemical substances, which is regularly reviewed by the European Agency for chemical products.

Paper recycling

Aldes prints its catalogues on PEFC paper from sustainably-





managed forests. At the end of their life, catalogues should be taken to an appropriate collection point.

Packaging recycling



Once the products have been installed, packaging should be sorted and disposed of at appropriate collection points.

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Notes





For more information on the fire protection solution,

contact your Aldes sales advisor, visit aldes.com or go to in You Tube







