

# 11039512

## ProtectONE® TA 250 2SP DAH

ProtectONE® TA 2SP is an F400-120 smoke and heat exhaust box fan for commercial and industrial premises.



Smoke exhaust unit ProtectONE T

### PRODUCT BENEFITS

- easy airflow adjustment with the exclusive ProtectONE® Adapt device,
- can be fully dismantled as standard,
- thermal insulation for installation in equipment rooms.

### REGLEMENTATIONS AND COMPLIANCES

PV CE number : 1812-CPR-1548

### Principles of operation

When commanded by the FACP, the safety box will activate ProtectONE® T in smoke exhaust mode to extract smoke. The box will then switch to “default” mode, then “standby”.

### Product description

ProtectONE® TA 2SP - Dahlander is an F400-120 smoke and heat exhaust box fan for commercial and industrial premises. It features a belt-driven forward curve impeller. The ProtectONE® Adapt adjustment device can adjust the exhaust airflow easily at any time.

### Fields of application

New, Refurbishment, Non-residential buildings

### Installation

- indoors or outdoors,
- indoor installation: use thermal-acoustic insulation option (EN 12101-3),
- outdoor installation: use rain hood + bird screen,
- proximity switch supplied fitted and wired, with position contacts.

### Main characteristics

- complies with CE marking 1812-CPR-1548,
- certified EFECTIS F400-120 as per EN12101-3,
- safety box compliant with NF standards (NF S61-937-1, NFS61937-9, NF 537),
- belt-driven exhaust box fan,
- 9 models for airflow from 1,000 to 40,000 m<sup>3</sup>/h,
- Dahlander 2-speed motor generating 1.5 kW to 20 kW,
- balanced forward curve impeller,
- adjustable pulley,
- class F electric motor, IP55,
- galvanised steel casing, can be dismantled as standard,
- motor access panel adjustable on site,
- proximity switch fitted in factory,
- built-in airflow adjustment device: ProtectONE® Adapt (patented system) exclusive to Aldes (optional),

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### Supplementary characteristics

- accessories:
  - square/circular adjustment plate for intake,
  - rain hood anti-bird visor on outlet,
  - rectangular and circular flexible sleeve,
  - rectangular/circular flexible adapter part on outlet,
  - anti-vibration mountings,
  - backdraft damper,
  - rain hood + grille,
  - outlet flange,
  - AXONE 1SP safety box, 1-speed progressive start,
  - AXONE 2SP safety box, 2-speed smoke exhaust and comfort + smoke exhaust,
- options:
  - "All-in-One" solution: safety box + switch + pressure switch installed and wired in factory,
  - choice of motor access panel,
  - horizontal or vertical outlet,
  - thermal + acoustic insulation certified 12101-3 for installation in equipment rooms,
  - variable pulley,
  - ProtectONE® Adapt (patented): rapid airflow adjustment.

### Accessories

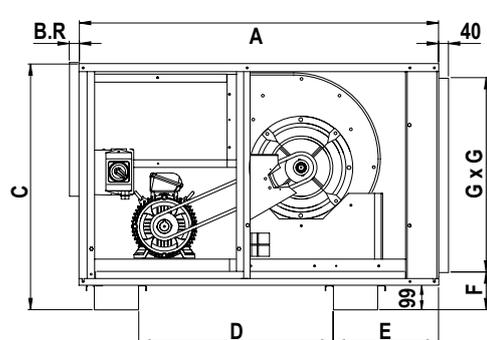
Désignations	References
ProtectONE® T vertical outlet grille 250	11039622
Flexible connector - Ø 400	11096938
Pack of 4 anti-vibration mountings ProtectONE® T	11039347
RECT DIS SLV 250 PROTECTONE T	11039562
REC.CIR ADA INT D400 250 PROTE	11039572
RAIN HOOD GRILLE 250 PROTECTONE T	11039582
DISCHARGE FLANGE 250 PROTECT T	11039592
FLEXIBLE ADAPTER DISCHARGE 250 PROTECTONE T	11039602
NON-RETURN 250 PROTECTONE T	11039612

### General data

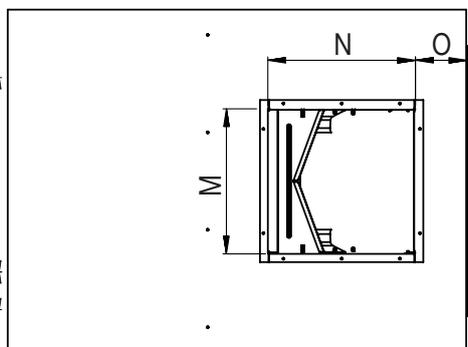
References	Type of motor	Type of impeller
11039512	AC	Forward curve

### Dimensional data

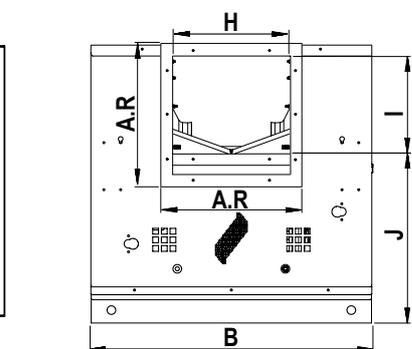
References	A (mm)	A.R (mm)	B (mm)	B.R (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
11039512	1152	400	792	43	791	619	319	145	600	324



Dimensions (mm) - profile view



Dimensions (mm) - top view



Dimensions (mm) - front view

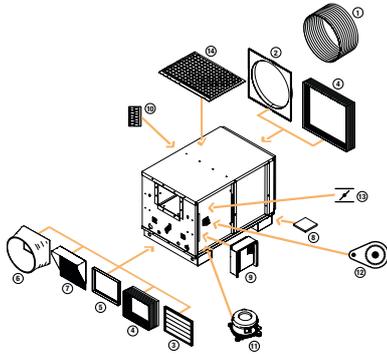
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## ProtectONE® TA 250 2SP DAH

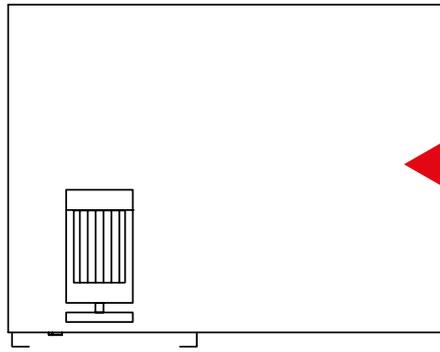
### Electrical datas

References	Id/In	Max. current (A)	Rated current (A)	Voltage (V)	Number of poles	Power (kW)
11039512	6.4/4.5-6/4-7.2/4.6	3,89/1,37-5,09/1,69-6,82/2,18	3,54/1,25-4,63/1,54-6,2/1,99	400	2	1,5/0,37 - 2,2/0,5 - 3,1/0,8

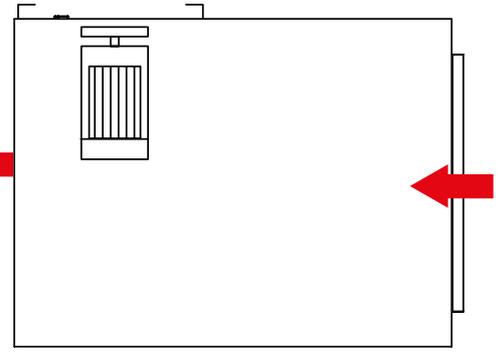
### Installation visual 1



Accessories ProtectONE T

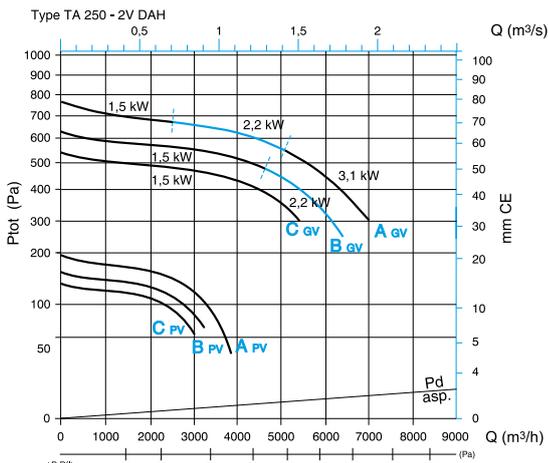


Drawing of top view with left side access



Drawing of top view with right side access

### Curve



> curves as per NF EN ISO 5801:

- ducted intake, open outlet,
  - Ptot: Total pressure,
  - Pd intake: dynamic pressure in duct on intake,
  - ΔP ducted outlet: higher pressure with ducted outlet rather than open outlet.
- > see ProtectONE TA 225 on use of curves.

l (mm)	Aerolux properties	ProtectONE® TA 250 - 2SP - DAH	N (mm)	O (mm)	Weight (kg)
269		481	322	160	128