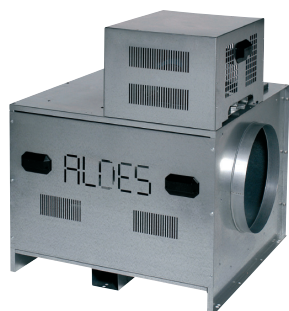


Cabinet Fans

Smoke exhaust fans



CYCLONE F400° range



Standard access panel

Compliance

- CE smoke exhaust casing - in accordance with EN 12101-3.
- Classified F400 (2h).
- Extension of the "thermally insulated" classification: complies with § 4.1 of Standard EN 12101-3.

**CIVIL
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Advantages

- Thermal insulation option: to avoid the CMEV system in attics.
- Variable pulley option for on-site airflow adjustment.
- Choice of access panel side possible depending on the various worksite configurations.
- Easier to access thanks to the handles on the motor cover and access panel.

APPLICATION

- Smoke exhaust from residential, commercial and industrial buildings.
- CYCLONE F400 is a purely smoke exhaust fan in casing. Avoid using it for any professional kitchen type of application.

DESCRIPTION

- 8 sizes of casing for airflows between 1000 and 35000 m³/h.
- Casing in galvanised steel.
- Forward curve impeller with aluminium hub.
- Pulley-belt type drive.
- IP 55 Class F motor, fitted on a mounting designed for simple belt tension adjustment.
- 1-speed or 2-speed motor (Independent Windings 4/6 pole and Dahlander coupling 4/8 pole).

INSTALLATION

- Can be installed either indoors or outdoors:
 - If used inside, the thermal insulation option should be chosen.
 - If used outdoors, a rain hood should be fitted.
- It is recommended that the system be installed on an anti-vibration mounting base.

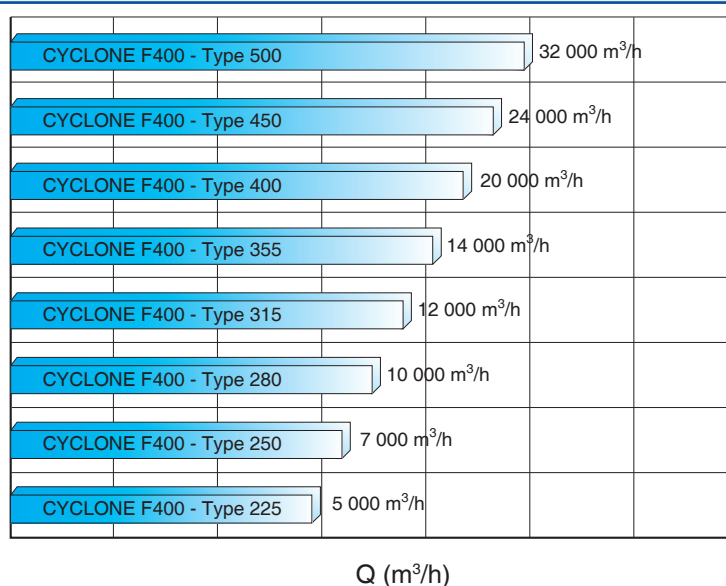
AVAILABLE OPTIONS

- Thermal casing insulation. This option, with CE validation, allows for avoiding the CMEV system of the room receiving the smoke exhaust fan in casing (attics for example).
- Choice of the position of the exhaust (horizontal or vertical).
- Choice of the position of the transmission access panel.
- Rainproof cover (supplied with the casing but not fitted).
- Adjustable drive pulley (except for model 500).
- "All-in-One": pre-wired relay box, protected by a cover (this option includes the disconnecter and pressure switch(es)) - aeraulically connected.
- Fitted and cabled proximity switch.
- Adjustable pressure switch, aeraulically connected (2 pressure switches for two smoke extraction speeds).

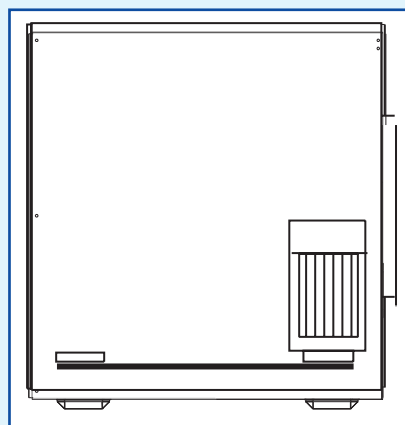
ACCESSORIES

- Flexible, circular suction sleeve.
- Flexible, rectangular, discharge sleeve.
- Flexible rectangular / circular adapter component - exhaust.
- Anti-vibration mounting.

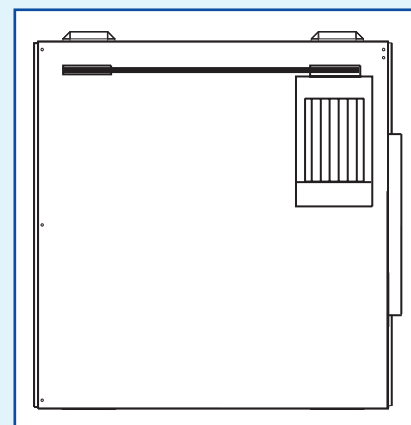
PRE-SELECTION CYCLONE F400



SELECTION OF ACCESS PANEL AND TRANSMISSION POSITIONS



Standard access panel face: door and transmission to the left of the suction outlet.



Optional access panel face: door and transmission to the right of the suction outlet.

Cabinet Fans

Smoke exhaust fans



CYCLONE F400 with proximity switch option

Compliance

- "All-in-One" option wired up in compliance with Standard NF-S 61.932.
- Thermal insulation option with CE certificate approval of Cyclone F400, with extension of the "thermally insulated" classification.

**CIVIL
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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

OPTIONS

Electrical accessories options

- Proximity switch fitted and cabled, fixed on to a galvanised steel mounting.
- Adjustable pressure switch, aeraulically connected (2 pressure switches for two smoke exhaust speeds). Positioned on the top of the casing, beside the motor cover.
- The "All-in-One" option has been validated during fire resistance tests:
 - The wiring of the relay box is carried out at the factory.
 - The proximity switch is integrated.
 - The aeraulically connected pressure switch(es) is / are positioned on the top of the casing, beside the motor cover.
 - The box is attached to the casing, under a protective cover (rain and UV rays), made of galvanised steel.
 - The front panel of the casing pivots to give easy access to the AXONE Micro II relay box.

Casing configuration options

- Designed to be hand-fitted, the rain-fittings are supplied inside the casing. To install, fix them to the screws around the casing exhaust.
- Adjustable drive pulley (except model 500). Adjustable in 1/4 turn steps over 3 turns. Factory setting: maximum rotational speed.
- Thermal insulation option:
 - The casing is insulated with a layer of rockwool on the inner surface of all four single-skin faces (the double-skinned compartment access faces will not propagate heat).
 - Adapted for interior installations, this casing limits radiant heat from the casing caused by the high temperatures created by smoke.
- Your Aldes contact can help you to avoid the ventilation system in the room receiving the casing (attics for example).

ACCESSORIES

- Flexible, circular M0 suction sleeve: composed of a flexible sleeve and two fixing collars.
- Flexible, rectangular, exhaust sleeve: composed of a flexible sleeve, four fixing plates and one fixing collar.
- Flexible rectangular/circular adapter component - exhaust. Composed of a flexible sleeve, four fixing plates and one fixing collar.
- Anti-vibration mounting in resilient material - size:
 - L x W x Th = 100 x 100 x 10 (mm).
 - 4 or 6 mountings are supplied - depending on the size of the casing.

"ALL-IN-ONE"

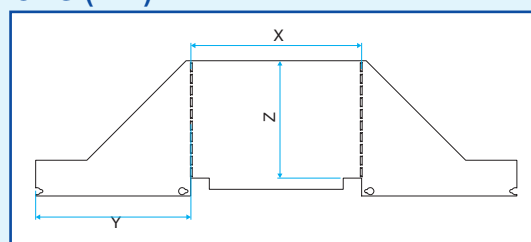
AXONE Micro II Relay box

+ Proximity switch (IP) pre-wired and fitted.

+ Aeraulically connected pressure switch(es).

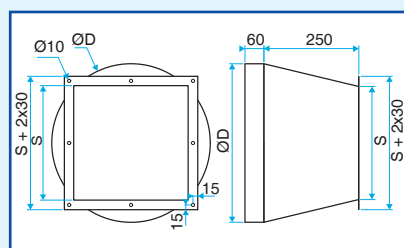


RAIN HOOD DIMENSIONS (mm)

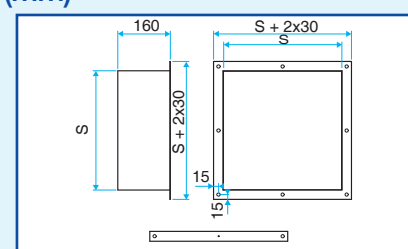


Type	225	250	280	315	355	400	450	500
X	388	422	461	504	553	607	699	738
Y	348	382	421	464	513	567	629	698
Z	247	276	320	356	405	459	521	590

ACCESSORIES DIMENSIONS (mm)



Transformation part

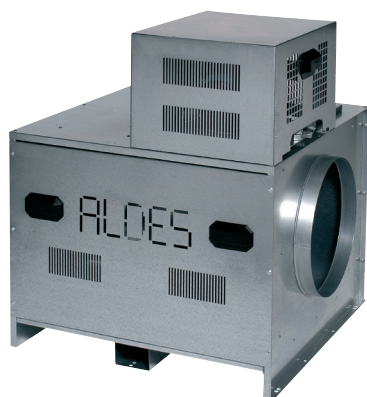


Flexible sleeve

Type	225	250	280	315	355	400	450	500
Ø D	400	450	500	560	630	710	800	800
S	288	322	361	404	453	507	569	638

Cabinet Fans

CYCLONE F400°: type 225



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

**CIVIL
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Advantages

- "Proximity switch" option: Simplified wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 1000 and 5000 m³/h.
- Variable pulley as standard.

RANGE with a choice of options **R8**

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 - Dahlander	
Cyclone 225 A - 2-speed Dahlander 1.1 kW / 0.26 kW	11039100
Cyclone 225 A - 2-speed Dahlander 1.7 kW / 0.36 kW	11039101
Cyclone 225 A - 2-speed Dahlander 2.3 kW / 0.5 kW	11039102
Cyclone 225 B - 2-speed Dahlander 1.1 kW / 0.26 kW	11039103
Cyclone 225 B - 2-speed Dahlander 1.7 kW / 0.36 kW	11039104
Cyclone F400 2-speed Independent Windings (BI)	
Cyclone 225 A - 2-speed BI - 1 kW / 0.3 kW	11039200
Cyclone 225 A - 2-speed BI - 1.5 kW / 0.45 kW	11039201
Cyclone 225 A - 2-speed BI - 2.5 kW / 0.8 kW	11039202
Cyclone 225 B - 2-speed BI - 1 kW / 0.3 kW	11039203
Cyclone 225 B - 2-speed BI - 1.5 kW / 0.45 kW	11039204

AVAILABLE OPTIONS **R8**

Options included

- Vertical or horizontal discharge.
- Choice of the position of the access door to the transmission.

Options supplied mounted and wired-up

- For 2-speed smoke exhaust use provide for two pressure switches.
- "All-in-One": relay box delivered pre-wired. This option integrates the proximity disconnecting switch and the pressure switch(es).

DIMENSIONS (mm)

- Overall dimensions: width (X) x height (Z1) x depth (Y) = 870 x 1024 x 841mm.
- Ø suction = 400.
- Exhaust cross section:
 - vertical discharge R x R = 300 x 300,
 - horizontal discharge R x R1 = 300 x 210.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
225 A	4	1.1	230/400	2.7	3.0	5	116
225 A	4	1.5	230/400	3.5	3.9	5	120
225 A	4	2.2	230/400	4.9	5.4	5.5	124
225 B	4	1.1	230/400	2.7	3.0	5	116
225 B	4	1.5	230/400	3.5	3.9	5	120
Cyclone F400 2-speed - Dahlander							
225 A2 Dahl	4/8	1.10/0.26	400	2.8/1.2	3.1/1.3	4.2/2.4	119
225 A2 Dahl	4/8	1.70/0.36	400	4.0/1.6	4.4/1.8	4.5/2.5	122
225 A2 Dahl	4/8	2.30/0.50	400	5.2/1.9	5.7/2.1	4.6/2.7	126
225 B2 Dahl	4/8	1.10/0.26	400	2.8/1.2	3.1/1.3	4.2/2.4	119
225 B2 Dahl	4/8	1.70/0.36	400	4.0/1.6	4.4/1.8	4.5/2.5	122
Cyclone F400 2-speed - Independent Windings (BI)							
225 A2 BI	4/6	1.00/0.30	400	2.5/1.2	2.8/1.3	4.2/2.6	119
225 A2 BI	4/6	1.50/0.45	400	3.5/1.6	3.9/1.8	4.3/2.9	122
225 A2 BI	4/6	2.50/0.80	400	5.5/2.5	6.1/2.8	5.6/3.5	126
225 B2 BI	4/6	1.00/0.30	400	2.5/1.2	2.8/1.3	4.2/2.6	119
225 B2 BI	4/6	1.50/0.45	400	3.5/1.6	3.9/1.8	4.3/2.9	122

Cabinet Fans

CYCLONE F400°: type 225

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example:

$Q = 3,600 \text{ m}^3/\text{h}$

Read on the graph the straight line $P_d = 40 \text{ Pa}$ and in the table $C = 200 \text{ Pa}$.

System upstream pressure loss = 500 Pa

System downstream pressure loss = 150 Pa

=> System pressure loss (upstream + downstream) = 650 Pa .

Then, calculate the corresponding P_s to select the appropriate casing unit:

$S_p = \text{System PL} + D_p - C = 650 + 40 - 200 = 490 \text{ Pa}$

→ CYCLONE F400° 225 A 1.5kW.

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

AVAILABLE OPTIONS ^{R8}

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
225 rain hood	OPT39323
Thermal insulation - 225	OPT39355
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 2-speed max 6.5 kW	OPT39318
100 - 1000 Pa pressure switch	OPT39321
2nd pressure switch 100-1000 Pa.	OPT39322

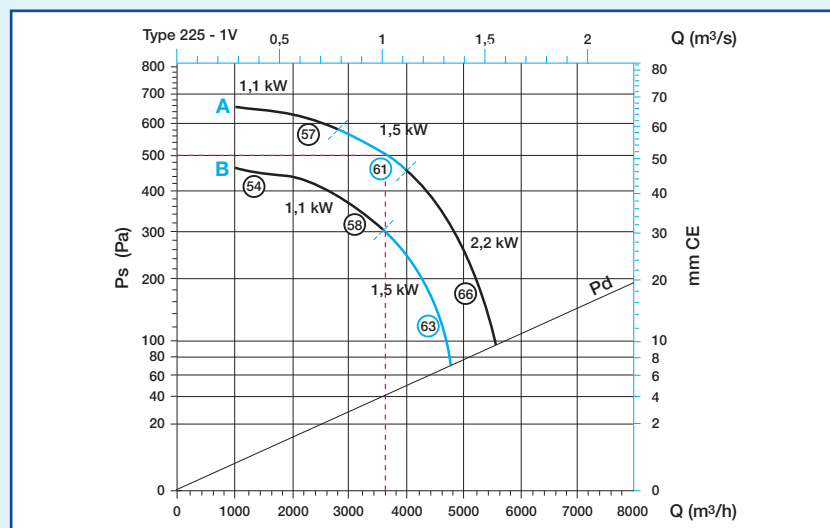
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES ^{R8}

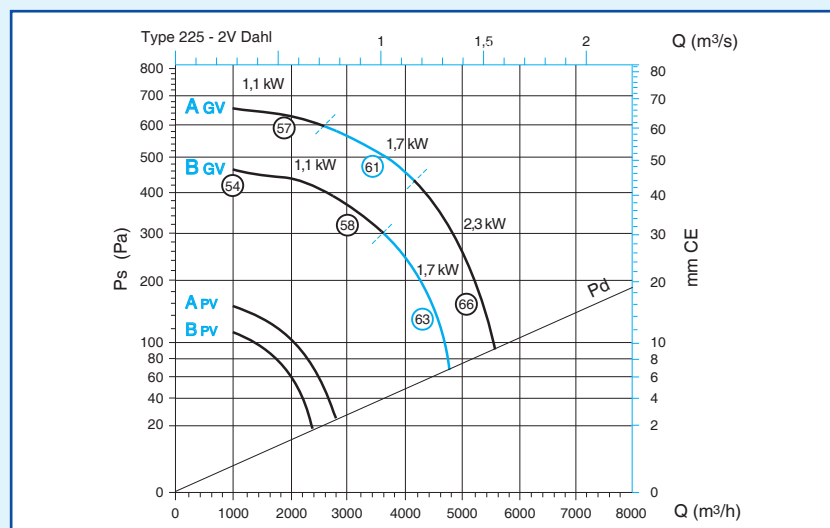
Description	Code
Flexible sleeve kit M0 Ø 400 mm	11096938
Flexible exhaust sleeve type 225	11039331
Flexible exhaust adapter type 225	11039339
4-piece anti-vibration support base	11039347

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

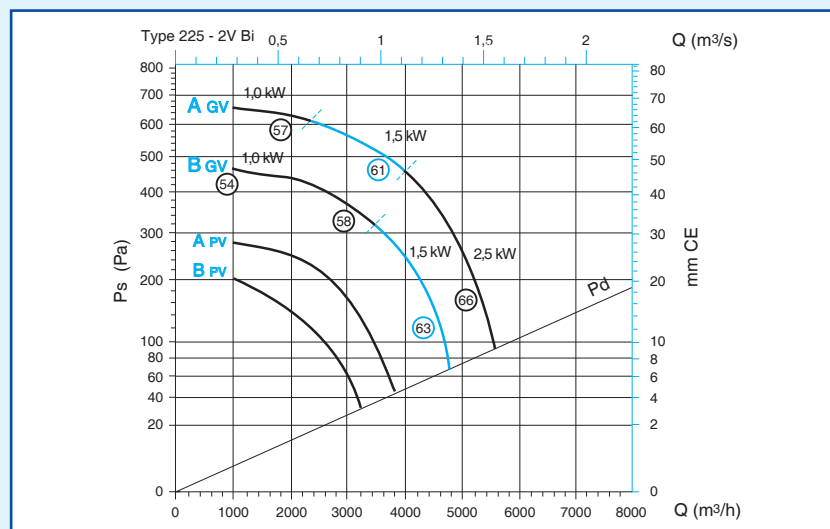
Q (m³/h)	2000	3000	3600	4000	5000
C (Pa)	59	132	200	235	367



Cyclone F 400° - 225, 1-speed



Cyclone F 400° - 225, 2-speed - Dahlander



Cyclone F 400° - 225, 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 250



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

**CIVIL
DEFENCE
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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 1000 and 7000 m³/h.

RANGE with a choice of options **R8**

Description	Code
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 - Dahlander	
Cyclone 250 A - 2-speed Dahlander 3.0 kW/ 0.65 kW	11039105
Cyclone 250 A - 2-speed Dahlander 5 kW/ 1 kW	11039107
Cyclone 250 B - 2-speed Dahlander 2.3 kW/ 0.5 kW	11039109
Cyclone 250 B - 2-speed Dahlander 3.0 kW/ 0.65 kW	11039110
Cyclone 250 C - 2-speed Dahlander 1.7 kW/ 0.36 kW	11039111
Cyclone 250 C - 2-speed Dahlander 2.3 kW/ 0.5 kW	11039112
Cyclone 250 C - 2-speed Dahlander 3.0 kW/ 0.65 kW	11039113
Cyclone F400 2-speed - Independent Windings (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 kW	11039207
Cyclone 250 B - 2-speed BI 2.5 kW/ 0.8 kW	11039209
Cyclone 250 B - 2-speed BI 3 kW/ 1 kW	11039210
Cyclone 250 C - 2-speed BI 1.5 kW/ 0.45 kW	11039211
Cyclone 250 C - 2-speed BI 2.5 kW/ 0.8 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 x 1165 x 944.

- Ø suction = 450.
- Exhaust cross section:
 - vertical discharge R x R = 321 x 321,
 - horizontal discharge R x R1 = 321 x 233.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
250 A	4	3.0	230/400	6.6	7.3	5.5	154
250 A	4	4.0	230/400	8.4	9.2	7.0	157
250 A	4	5.5	230/400	11.5	12.7	7.3	170
250 B	4	2.2	230/400	4.9	5.4	5.5	150
250 B	4	3.0	230/400	6.6	7.3	5.5	154
250 C	4	1.5	230/400	3.5	3.9	5.0	157
250 C	4	2.2	230/400	4.9	5.4	5.5	150
250 C	4	3.0	230/400	6.6	7.3	5.5	154
Cyclone F400 2-speed - Dahlander							
250 A2 Dahl	4/8	3.00/0.65	400	6.8/2.5	7.5/2.8	5.6/3.0	158
250 A2 Dahl	4/8	5.00/1.00	400	9.9/3.3	10.9/3.6	6.4/3.6	182
250 B2 Dahl	4/8	2.30/0.50	400	5.2/1.9	5.7/2.1	4.6/2.7	152
250 B2 Dahl	4/8	3.00/0.65	400	6.8/2.5	7.5/2.8	5.6/3.0	158
250 C2 Dahl	4/8	1.70/0.36	400	4.0/1.6	4.4/1.8	4.5/2.5	148
250 C2 Dahl	4/8	2.30/0.50	400	5.2/1.9	5.7/2.1	4.6/2.7	152
250 C2 Dahl	4/8	3.00/0.65	400	6.8/2.5	7.5/2.8	5.6/3.0	158
Cyclone F400 2-speed - Independent Windings (BI)							
250 A2 BI	4/6	3.0/1.00	400	6.3/3.1	6.9/3.4	6.0/4.0	158
250 A2 BI	4/6	4.5/1.50	400	9.2/5.1	10.1/5.6	6.5/4.2	182
250 A2 BI	4/6	6.0/2.00	400	12.0/5.6	13.2/6.2	7.1/4.5	193
250 B2 BI	4/6	2.5/0.80	400	5.5/2.5	6.1/2.8	5.6/3.5	152
250 B2 BI	4/6	3.0/1.00	400	6.3/3.1	6.9/3.4	6.0/4.0	158
250 C2 BI	4/6	1.5/0.45	400	3.5/1.6	3.9/1.8	4.3/2.9	148
250 C2 BI	4/6	2.5/0.80	400	5.5/2.5	6.1/2.8	5.6/3.5	152
250 C2 BI	4/6	3.0/1.00	400	6.3/3.1	6.9/3.4	6.0/4.0	158

Cabinet Fans

CYCLONE F400°: type 250

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

- Example: see CYCLONE type 225, page 126.
- The values circled correspond to the acoustic pressure measured at 6 m from the casing in dB (A).

AVAILABLE OPTIONS R8

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
250 rain hood	OPT39324
Adjustable pulley 250-280	OPT39350
Thermal insulation - 250	OPT39356
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 2-speed max 6.5 kW	OPT39318
100 -1000 Pa pressure switch	OPT39321
2nd pressure switch 100-1000 Pa.	OPT39322

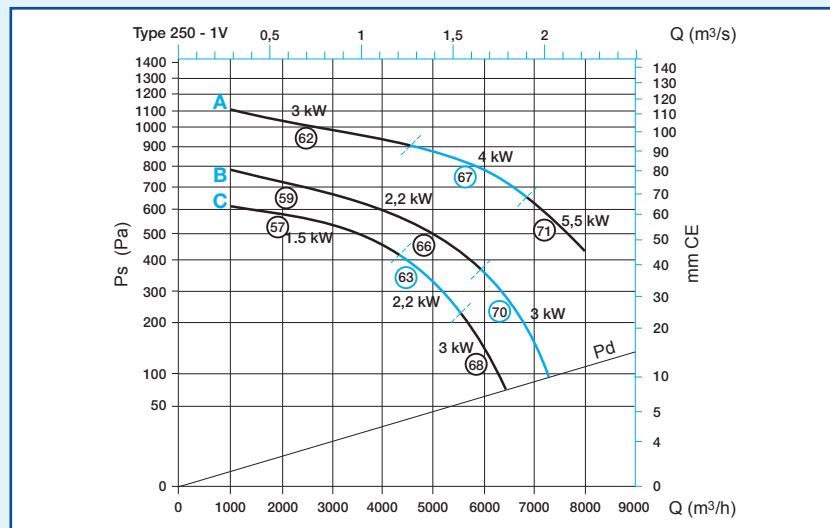
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES R8

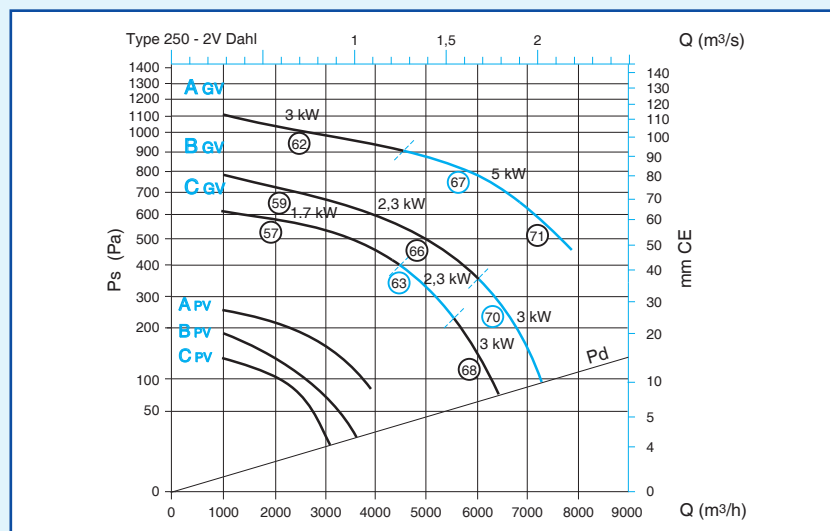
Description	Code
Flexible sleeve kit M0 Ø 450 mm	11096939
Flexible exhaust sleeve type 250	11039332
Flexible exhaust adapter type 250	11039340
4-piece anti-vibration support base	11039347

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

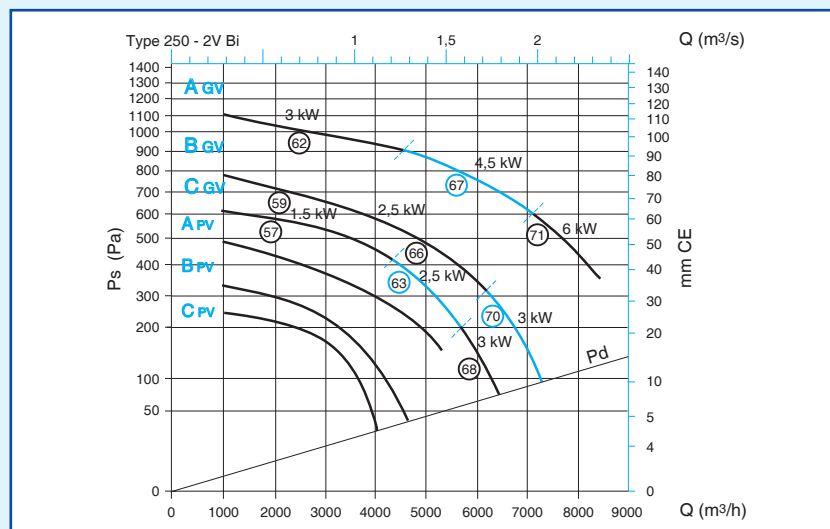
Q (m³/h)	2000	3000	4000	5000	6000	7000	8000
C (Pa)	39	89	157	246	354	482	630



Cyclone F 400°, 250, 1-speed



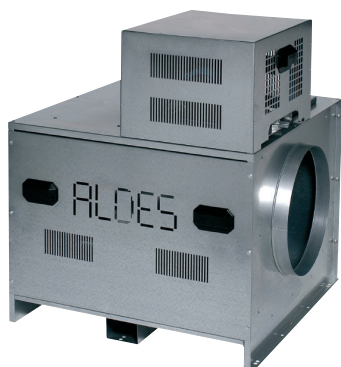
Cyclone F 400°, 250, 2-speed - Dahlander



Cyclone F 400°, 250 - 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 280



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

**CIVIL
DEFENCE
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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 2000 and 10000 m³/h.

RANGE with a choice of options **R8**

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 3.5 kW/ 0.7 kW	11039114
Cyclone 280 A - 2-speed Dahlander 5 kW/ 1 kW	11039115
Cyclone 280 A - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039116
Cyclone 280 B - 2-speed Dahlander 3.5 kW/ 0.7 kW	11039118
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 280 A - 2-speed BI 4.5 kW/ 1.5 kW	11039214
Cyclone 280 A - 2-speed BI 6 kW/ 2 kW	11039215
Cyclone 280 B - 2-speed BI 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 x 1225 x 1014.
- Ø suction = 500.
- Exhaust cross section:
 - vertical discharge R x R = 364 x 364,
 - horizontal discharge R x R1 = 364 x 262.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
280 A	4	4.0	230/400	8.4	9.2	7.0	181
280 A	4	5.5	230/400	11.5	12.7	7.3	194
280 A	4	7.5	230/400	15.3	16.8	7.9	202
280 B	4	3.0	230/400	6.6	7.3	5.5	178
280 B	4	4.0	230/400	8.4	9.2	7.0	181
Cyclone F400 2-speed - Dahlander							
280 A2 Dahl	4/8	3.5/0.7	400	7.0/2.5	7.7/2.8	6.8/4.4	164
280 A2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	182
280 A2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	193
280 B2 Dahl	4/8	3.5/0.7	400	7.0/2.5	7.7/2.8	6.8/4.4	164
Cyclone F400 2-speed - Independent Windings (BI)							
280 A2 BI	4/6	4.5/1.5	400	9.2/5.1	10.1/5.6	6.5/4.2	182
280 A2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	193
280 B2 BI	4/6	3.0/1.0	400	6.3/3.1	6.9/3.4	6.0/4.0	158
280 B2 BI	4/6	4.5/1.5	400	9.2/5.1	10.1/5.6	6.5/4.2	182

Cabinet Fans

CYCLONE F400°: type 280

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = P_s - P_d + C

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225, page 126.

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

AVAILABLE OPTIONS R8

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
280 rain hood	OPT39325
Adjustable pulley 250-280	OPT39350
Thermal insulation - 280	OPT39357
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 2-speed max 6.5 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
100 -1000 Pa pressure switch	OPT39321
2nd pressure switch 100-1000 Pa.	OPT39322

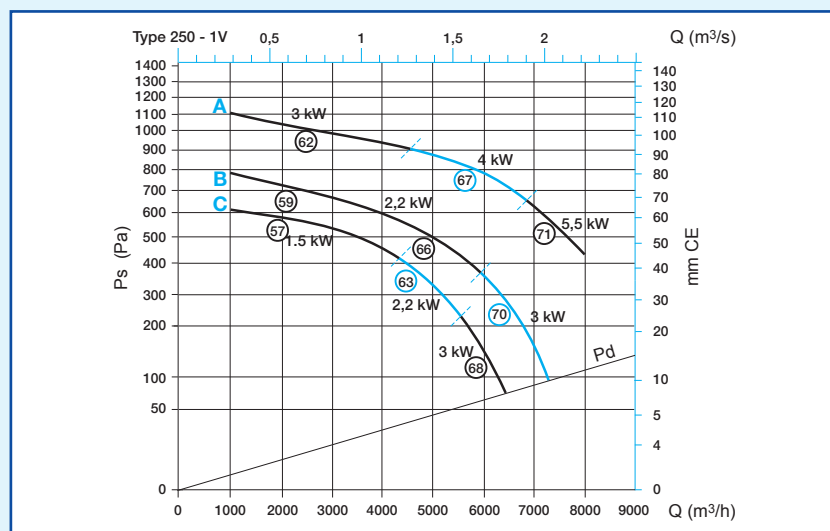
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES R8

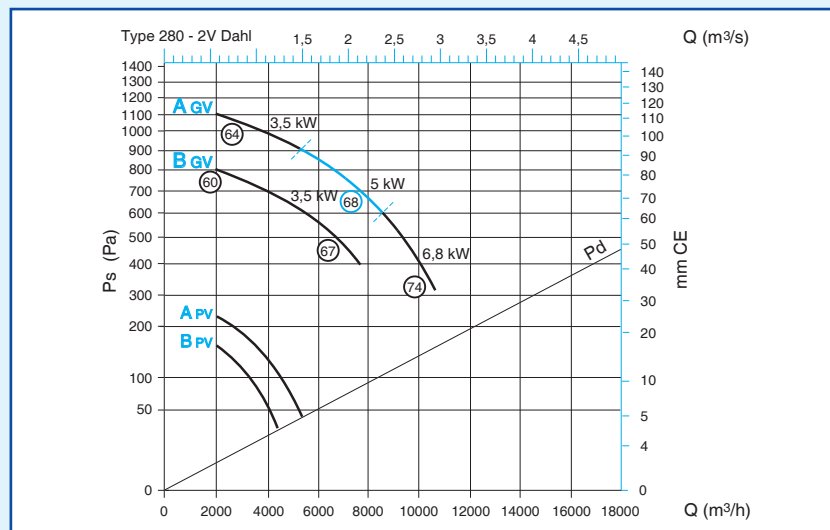
Description	Code
Flexible sleeve kit M0 Ø 500 mm	11096940
Flexible exhaust sleeve type 280	11039333
Flexible exhaust adapter type 280 Ø 500 mm	11039341
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

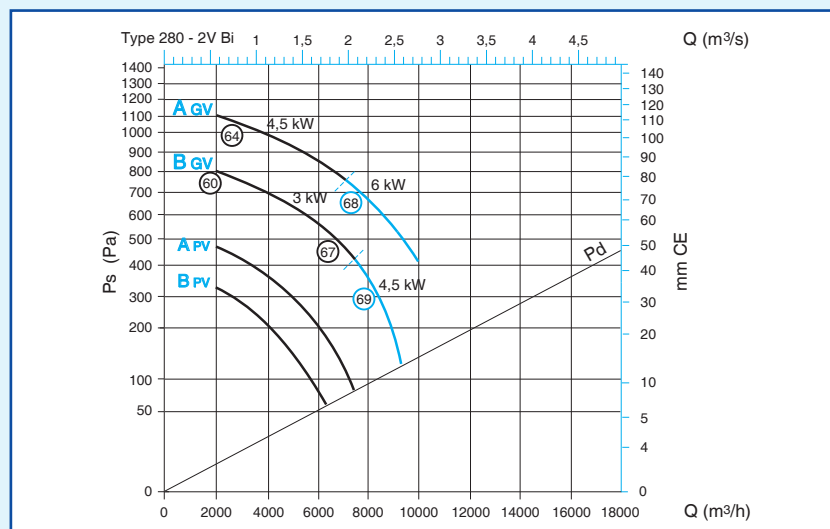
Q (m³/h)	4000	5000	6000	7000	8000	9000	10000	11000
C (Pa)	95	148	213	290	379	479	592	716



Cyclone F 400°, 280, 1-speed



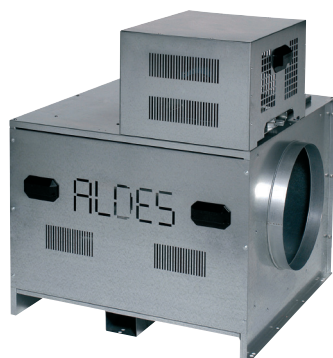
Cyclone F 400°, 280, 2-speed- Dahlander



Cyclone F 400°, 280, 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 315



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

**CIVIL
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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 2000 and 12000 m³/h.

RANGE with a choice of options **R8**

Description	Code
CYCLONE F 400 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 - Dahlander	
Cyclone 315 A - 2-speed Dahlander 5 kW/ 1 kW	11039119
Cyclone 315 A - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039120
Cyclone 315 A - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039121
Cyclone 315 B - 2-speed Dahlander 3.5 kW/ 0.7 kW	11039122
Cyclone 315 B - 2-speed Dahlander 5 kW/ 1 kW	11039123
Cyclone 315 B - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039124
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 315 A - 2-speed BI 6 kW/ 2 kW	11039219
Cyclone 315 A - 2-speed BI 10.5 kW/ 3.5 kW	11039221
Cyclone 315 B - 2-speed BI 4.5 kW/ 1.5 kW	11039222
Cyclone 315 B - 2-speed BI 6 kW/ 2 kW	11039223

DIMENSIONS (mm)

Overall dimensions: width (X) x height (Z1) x depth (Y) = 1070 x 1390 x 1162.

- Ø suction = 560.
- Exhaust cross section:
 - vertical discharge R x R = 407 x 407,
 - horizontal discharge R x R1 = 407 x 288.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
315 A	4	5.5	230/400	11.5	12.7	7.3	232
315 A	4	7.5	230/400	15.3	16.8	7.9	240
315 A	4	11.0	230/400	21.5	23.7	6.5	367
315 B	4	4.0	230/400	8.4	9.2	7.0	219
315 B	4	5.5	230/400	11.5	12.7	7.3	232
315 B	4	7.5	230/400	15.3	16.8	7.9	240
Cyclone F400 2-speed - Dahlander							
315 A2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	244
315 A2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	255
315 A2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	292
315 B2 Dahl	4/8	3.5/0.7	400	7.0/2.5	7.7/2.8	6.8/4.4	226
315 B2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	244
315 B2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	255
Cyclone F400 2-speed - Independent Windings (BI)							
315 A2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	255
315 A2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	292
315 B2 BI	4/6	4.5/1.5	400	9.2/5.1	10.1/5.6	6.5/4.2	244
315 B2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	255

Cabinet Fans

CYCLONE F400°: type 315

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225 page 126.

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

AVAILABLE OPTIONS R8

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
315 rain hood	OPT39326
Adjustable pulley 315-355	OPT39351
Thermal insulation - 315	OPT39358
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 1-speed Des < 13 kW	OPT39304
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des DAH < 13 kW	OPT39308
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
"All-in-One" 2-speed Des BI < 13 kW	OPT39312
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 2-speed max 6.5 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
100 - 1000 Pa pressure switch	OPT39321
2nd pressure switch 100 - 1000 Pa.	OPT39322

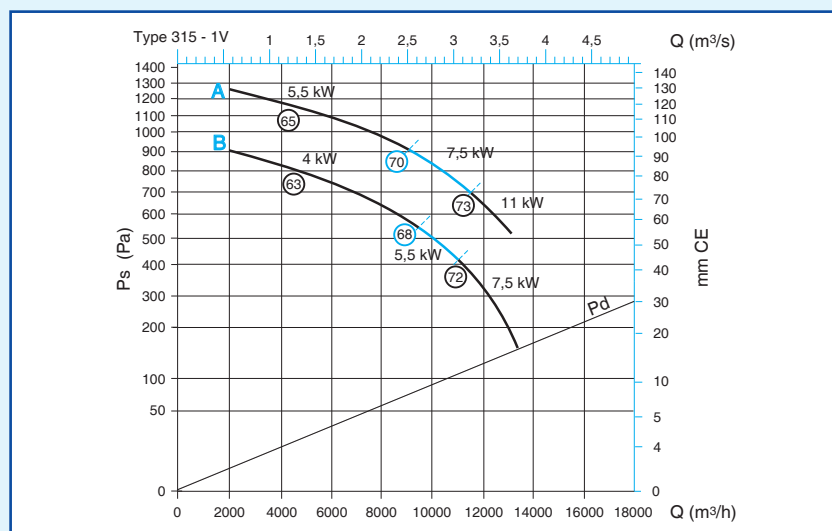
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES R8

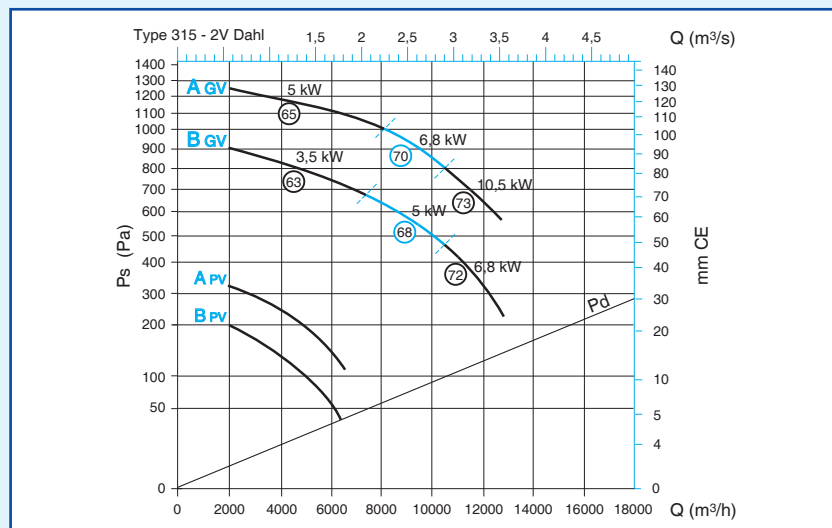
Description	Code
Flexible sleeve kit M0 Ø 560 mm	11096941
Flexible exhaust sleeve type 315	11039334
Flexible exhaust adapter type 315	11039342
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

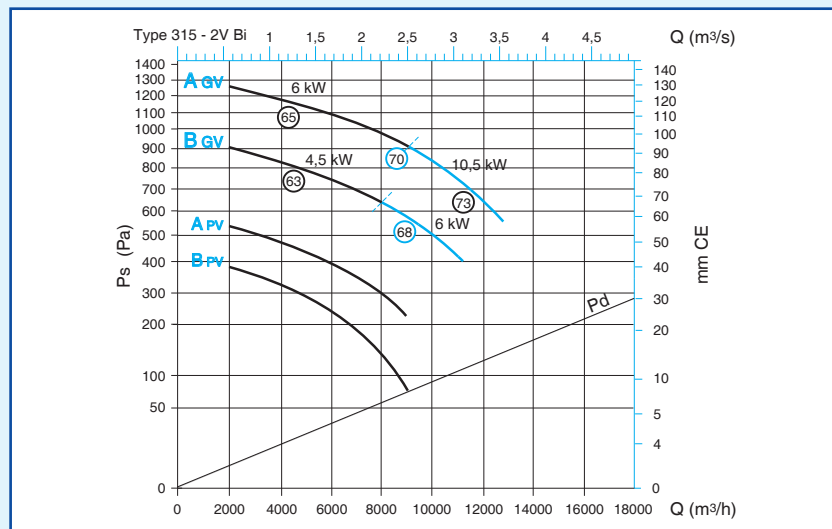
Q (m³/h)	4000	6000	8000	10000	12000
C (Pa)	61	137	244	381	548



Cyclone F 400°, 315, 1-speed



Cyclone F 400°, 315, 2-speed - Dahlander



Cyclone F 400°, 315, 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 355



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 2000 and 14000 m³/h.

RANGE with a choice of options **R8**

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 - Dahlander	
Cyclone 355 A - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039125
Cyclone 355 A - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039126
Cyclone 355 B - 2-speed Dahlander 5 kW/ 1 kW	11039127
Cyclone 355 B - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039128
Cyclone 355 C - 2-speed Dahlander 3.5 kW/ 0.7 kW	11039129
Cyclone 355 C - 2-speed Dahlander 5 kW/ 1 kW	11039130
Cyclone 355 C - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039131
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 355 A - 2-speed - BI 10.5 kW/ 3.5 kW	11039226
Cyclone 355 B - 2-speed - BI 6 kW/ 2 kW	11039227
Cyclone 355 C - 2-speed - BI 4.5 kW/ 1.5 kW	11039229
Cyclone 355 C - 2-speed - BI 6 kW/ 2 kW	11039230

DIMENSIONS (mm)

- Overall dimensions: width (X) x height (Z1) x depth (Y) = 1105 x 1480 x 1256.
- Ø suction = 630.
- Exhaust cross section:
 - vertical discharge R x R = 453 x 453,
 - horizontal discharge R x R1 = 453 x 330.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
355 A	4	7.5	230/400	15.3	16.8	7.9	273
355 A	4	11.0	230/400	21.5	23.7	6.5	300
355 B	4	5.5	230/400	11.5	12.7	7.3	265
355 B	4	7.5	230/400	15.3	16.8	7.9	273
355 C	4	4.0	230/400	8.4	9.2	7.0	252
355 C	4	5.5	230/400	11.5	12.7	7.3	265
355 C	4	7.5	230/400	15.3	16.8	7.9	273
Cyclone F400 2-speed - Dahlander							
355 A2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	288
355 A2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	325
355 B2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	277
355 B2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	288
355 C2 Dahl	4/8	3.5/0.7	400	7.0/2.5	7.7/2.8	6.8/4.4	259
355 C2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	277
355 C2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	288
Cyclone F400 2-speed - Independent Windings (BI)							
355 A2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	325
355 B2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	288
355 C2 BI	4/6	4.5/1.5	400	9.2/5.1	10.1/5.6	6.5/4.2	277
355 C2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	288

Cabinet Fans

CYCLONE F400°: type 355

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225, page 126.

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

AVAILABLE OPTIONS **R8**

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
355 rain hood	OPT39327
Adjustable pulley 315-355	OPT39351
Thermal insulation - 355	OPT39359
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 1-speed Des < 13 kW	OPT39304
"All-in-One" 1-speed Des < 23 kW	OPT39305
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des DAH < 13 kW	OPT39308
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
"All-in-One" 2-speed Des BI < 13 kW	OPT39312
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 2-speed max 6.5 kW	OPT39315
Proximity switch 2-speed max 13 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
100 - 1000 Pa pressure switch	OPT39321
2nd pressure switch 100 - 1000 Pa.	OPT39322

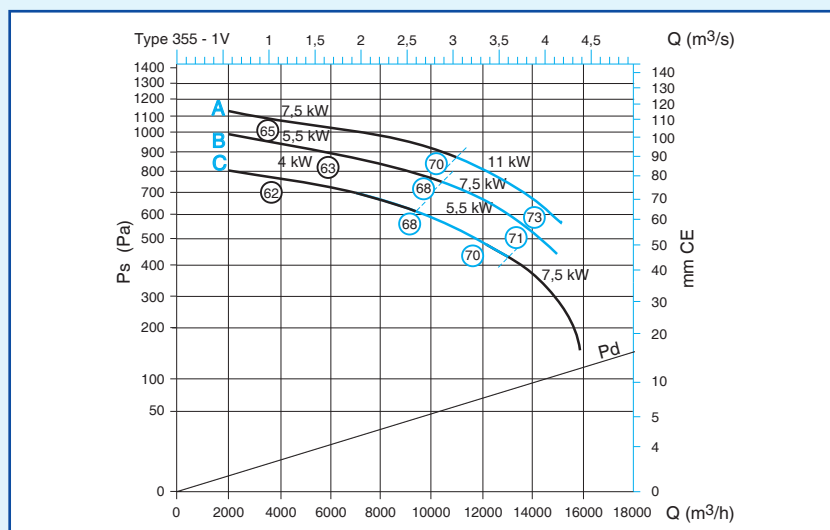
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES **R8**

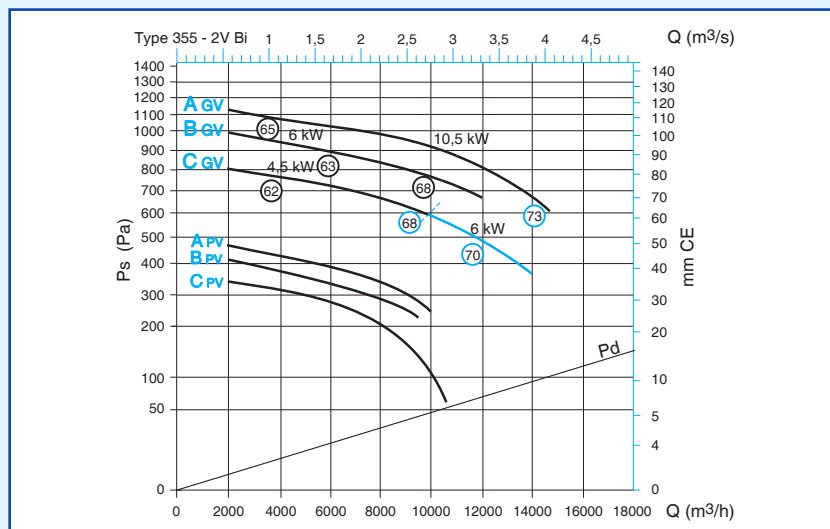
Description	Code
Flexible sleeve kit M0 Ø 630 mm	11096942
Flexible sleeve type 355 exhaust	11039335
Flexible exhaust adapter - type 355 Ø 630 mm	11039343
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

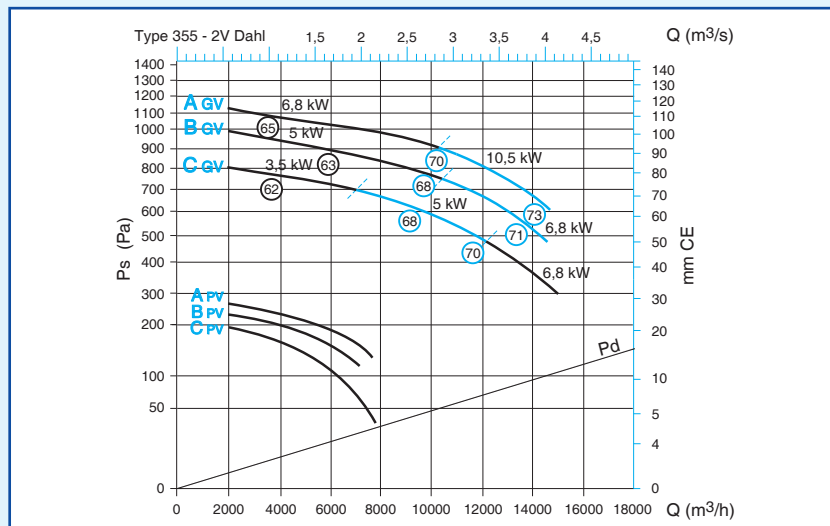
Q (m³/h)	4000	6000	8000	10000	12000	14000
C (Pa)	37	83	147	230	332	451



Cyclone F 400°, 355, 1-speed



Cyclone F 400°, 355, 2-speed - Dahlander



Cyclone F 400°, 355, 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 400



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 2000 and 20000 m³/h.

RANGE with a choice of options **R8**

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 - Dahlander	
Cyclone 400 A - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039132
Cyclone 400 A - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039133
Cyclone 400 A - 2-speed Dahlander 15.5 kW/ 2.7 kW	11039134
Cyclone 400 B - 2-speed Dahlander 5 kW/ 1 kW	11039135
Cyclone 400 B - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039136
Cyclone 400 B - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039137
Cyclone 400 C - 2-speed Dahlander 3.5 kW/ 0.7 kW	11039138
Cyclone 400 C - 2-speed Dahlander 5 kW/ 1 kW	11039139
Cyclone 400 C - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039140
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 400 A - 2-speed BI 10.5 kW/ 3.5 kW	11039233
Cyclone 400 A - 2-speed BI 16 kW/ 5 kW	11039234
Cyclone 400 B - 2-speed BI 6 kW/ 2 kW	11039235
Cyclone 400 B - 2-speed BI 10.5 kW/ 3.5 kW	11039237
Cyclone 400 C - 2-speed BI 4.5 kW/ 1.5 kW	11039238
Cyclone 400 C - 2-speed BI 6 kW/ 2 kW	11039239

DIMENSIONS (mm)

- Overall dimensions: width (X) x height (Z1) x depth (Y) = 1205 x 1600 x 1370.
- Ø suction = 710.
- Exhaust cross section:
 - vertical discharge R x R = 507 x 507,
 - horizontal discharge R x R1 = 507 x 346.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
400 A	4	7.5	230/400	15.3	16.8	7.9	352
400 A	4	11.0	230/400	21.5	23.7	6.5	379
400 A	4	15.0	230/400	30.0	33.0	7.2	398
400 B	4	5.5	230/400	11.5	12.7	7.3	344
400 B	4	7.5	230/400	15.3	16.8	7.9	352
400 B	4	11.0	230/400	21.5	23.7	6.5	379
400 C	4	4.0	230/400	8.4	9.2	7.0	331
400 C	4	5.5	230/400	11.5	12.7	7.3	344
400 C	4	7.5	230/400	15.3	16.8	7.9	352
Cyclone F400 2-speed - Dahlander							
400 A2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	367
400 A2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	404
400 A2 Dahl	4/8	15.5/2.7	400	30.0/9.5	33.0/10.5	6.9/3.9	427
400 B2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	356
400 B2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	367
400 B2 Dahl	4/8	10.5/2.7	400	21.0/7.4	23.1/8.1	6.9/3.7	404
400 C2 Dahl	4/8	3.5/0.7	400	7.0/2.5	7.7/2.8	6.8/4.4	338
400 C2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	356
400 C2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	367
Cyclone F400 2-speed - Independent Windings (BI)							
400 A2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	404
400 A2 BI	4/6	16.0/5.0	400	31.0/12.5	34.1/13.8	6.3/4.6	427
400 B2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	367
400 B2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	404
400 C2 BI	4/6	4.5/1.5	400	9.2/5.1	10.1/5.6	6.5/4.2	356
400 C2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	367

Cabinet Fans

CYCLONE F400°: type 400

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.

- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225 page 126.

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

AVAILABLE OPTIONS ^{R8}

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
400 rain hood	OPT39328
Adjustable pulley - 400	OPT39352
Thermal insulation - 400	OPT39360
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 1-speed Des < 13 kW	OPT39304
"All-in-One" 1-speed Des < 23 kW	OPT39305
"All-in-One" 2-speed Des DAH < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des DAH < 13 kW	OPT39308
"All-in-One" 2-speed Des DAH < 23 kW	OPT39309
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
"All-in-One" 2-speed Des BI < 13 kW	OPT39312
"All-in-One" 2-speed Des BI < 23 kW	OPT39313
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 2-speed max 6.5 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
100 - 1000 Pa pressure switch	OPT39321
2nd pressure switch 100 - 1000 Pa.	OPT39322

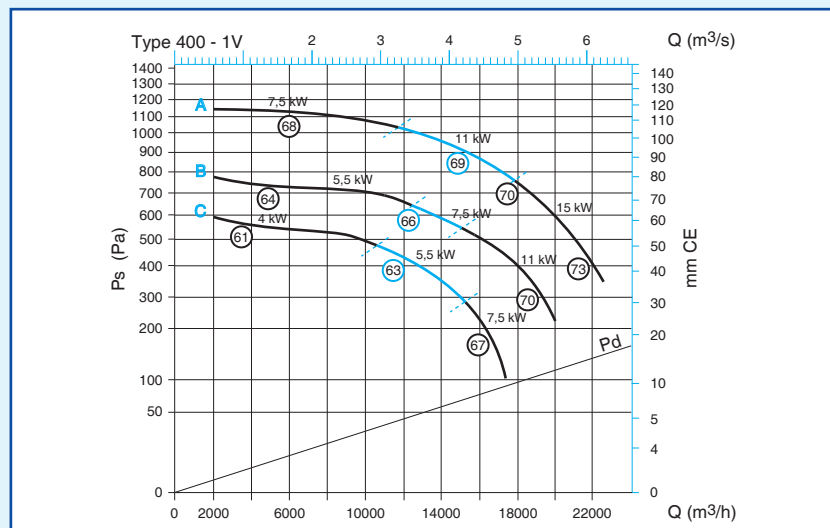
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES ^{R8}

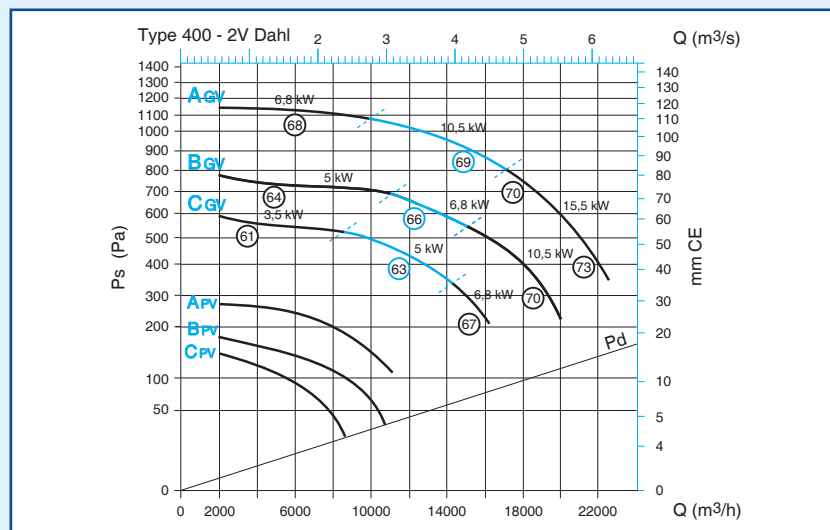
Description	Code
Flexible sleeve kit mo Ø 710 mm	11096930
Flexible exhaust sleeve type 400	11039336
Flexible exhaust adapter type 400	11039344
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

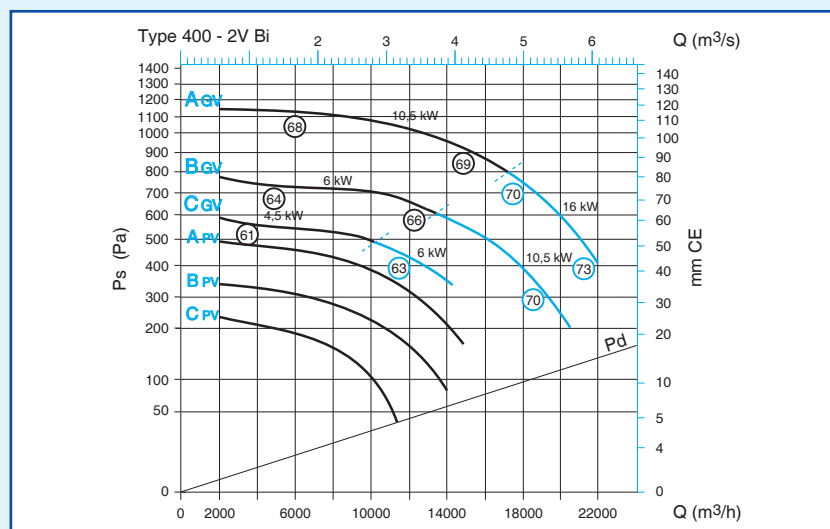
Q (m³/h)	6000	8000	10000	12000	14000	16000	18000	20000	22000
C (Pa)	53	94	147	212	288	376	476	588	712



Cyclone F 400°, 400, 1-speed



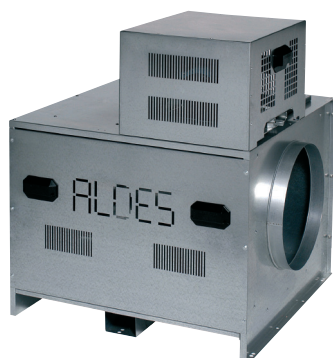
Cyclone F 400°, 400, 2-speed - Dahlander



Cyclone F 400°, 400, 2-speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 450



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

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Advantages

- "Proximity switch" option: easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 4000 and 24000 m³/h.

RANGE with a choice of options **R8**

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 - Dahlander	
Cyclone 450 A - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039141
Cyclone 450 A - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039142
Cyclone 450 A - 2-speed Dahlander 15.5 kW/ 2.7 kW	11039143
Cyclone 450 B - 2-speed Dahlander 5 kW/ 1 kW	11039144
Cyclone 450 B - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039145
Cyclone 450 B - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039146
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 450 A - 2-speed BI 10.5 kW/ 3.5 kW	11039242
Cyclone 450 A - 2-speed BI 16 kW/ 5 kW	11039243
Cyclone 450 B - 2-speed BI 6 kW/ 2 kW	11039244
Cyclone 450 B - 2-speed BI 10.5 kW/ 3.5 kW	11039246

DIMENSIONS (mm)

- Overall dimensions: width (X) x height (Z1) x depth (Y) = 1357 x 1844 x 1492.
- Ø suction = 800.
- Exhaust cross section:
 - vertical discharge R x R = 569 x 569,
 - horizontal discharge R x R1 = 569 x 392.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	I _{max} (A)	Id/IN	Weight (kg)
450 A	4	7.5	230/400	15.3	16.8	7.9	458
450 A	4	11.0	230/400	21.5	23.7	6.5	485
450 A	4	15.0	230/400	30.0	33.0	7.2	504
450 B	4	5.5	230/400	11.5	12.7	7.3	450
450 B	4	7.5	230/400	15.3	16.8	7.9	458
450 B	4	11.0	230/400	21.5	23.7	6.5	485
Cyclone F400 2-speed - Dahlander							
450 A2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	473
450 A2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	510
450 A2 Dahl	4/8	15.5/2.7	400	30.0/9.5	33.0/10.5	6.9/3.9	533
450 B2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	462
450 B2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	473
450 B2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	510
Cyclone F400 2-speed - Independent Windings (BI)							
450 A2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	510
450 A2 BI	4/6	16.0/5.0	400	31.0/12.5	34.1/13.8	6.3/4.6	533
450 B2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	473
450 B2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	510

Cabinet Fans

CYCLONE F400°: type 450

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225 page 126.

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

AVAILABLE OPTIONS R8

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
450 rain hood	OPT39329
Adjustable pulley - 450	OPT39353
Thermal insulation - 450	OPT39361
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 1-speed Des < 13 kW	OPT39304
"All-in-One" 1-speed Des < 23 kW	OPT39305
"All-in-One" 2-speed Des DAH < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des DAH < 13 kW	OPT39308
"All-in-One" 2-speed Des DAH < 23 kW	OPT39309
"All-in-One" 2-speed Des BI < 8 kW - connected/fitted	OPT39311
"All-in-One" 2-speed Des BI < 13 kW	OPT39312
"All-in-One" 2-speed Des BI < 23 kW	OPT39313
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 2-speed max 6.5 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
Proximity switch 2-speed max 22 kW	OPT39320
100 - 1000 Pa pressure switch	OPT39321
2nd pressure switch 100-1000 Pa.	OPT39322

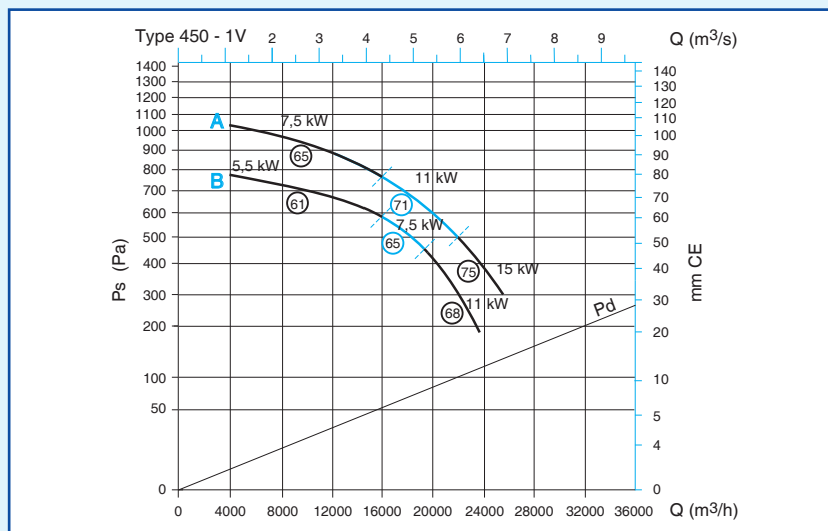
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES R8

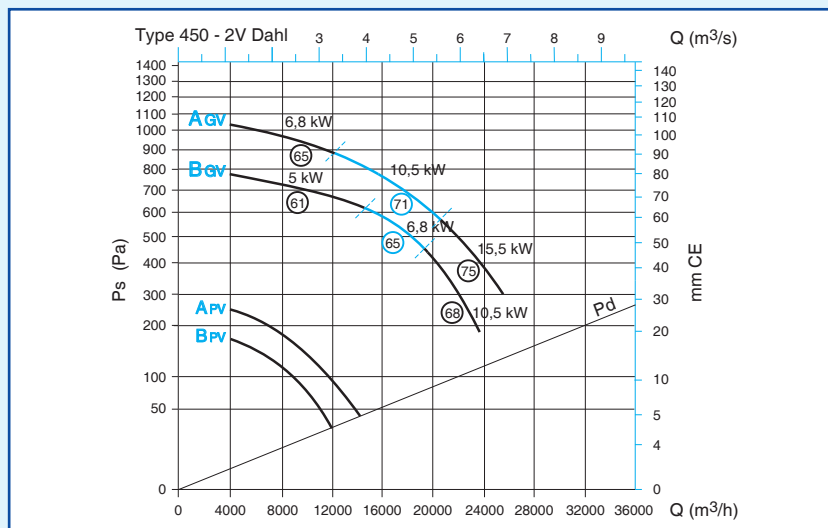
Description	Code
Flexible sleeve kit M0 Ø 800 mm	11096931
Flexible exhaust sleeve type 450	11039337
Flexible exhaust adapter type 450	11039345
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

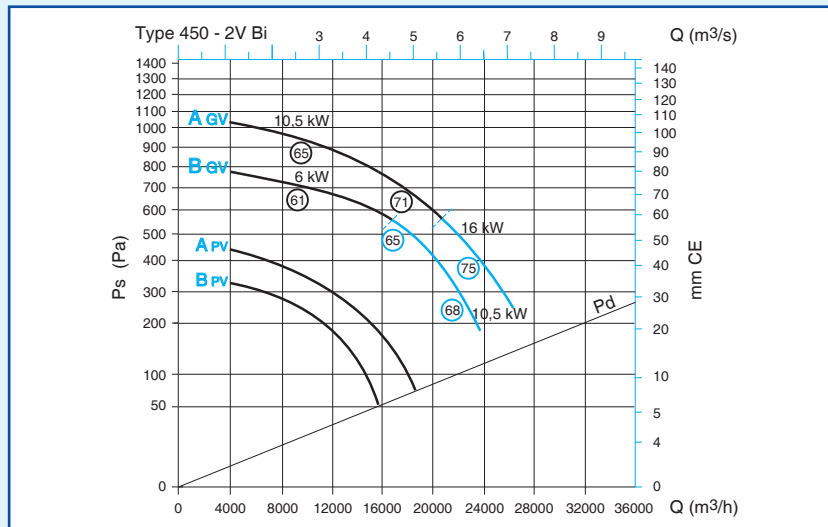
Q (m³/h)	8000	12000	16000	20000	24000
C (Pa)	61	137	244	382	550



Cyclone F 400°, 450, 1-speed



Cyclone F 400°, 450, 2-speed - Dahlander



Cyclone F 400°, 450, 2, speed - Independent windings

Cabinet Fans

CYCLONE F400°: type 500



Compliance

- Conforms with the CE marking in accordance with Standard EN 12101-3.
- F400 (2h) classification.
- Extension of the "thermally insulated" classification.

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Advantages

- "Proximity switch" option: Easier wiring to save time when fitting.
- "All-in-One" option: relay box, proximity switch and pressure switch(es) pre-wired and fitted to save time on the site.
- "Thermal insulation" option: to avoid the CMEV system in attics.

DESCRIPTION

- Airflow between 4000 and 32000 m³/h.

RANGE with a choice of options **R8**

Description	Code
Cyclone F400 1-speed	
Cyclone 500 A 11 kW	11039047
Cyclone 500 A 15 kW	11039048
Cyclone 500 A 22 kW	11039049
Cyclone 500 B 7.5 kW	11039050
Cyclone 500 B 11 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 - Dahlander	
Cyclone 500 A - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039147
Cyclone 500 A - 2-speed Dahlander 15.5 kW/ 2.7 kW	11039148
Cyclone 500 A - 2-speed Dahlander 22.5 kW/ 4.4 kW	11039149
Cyclone 500 B - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039150
Cyclone 500 B - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039151
Cyclone 500 B - 2-speed Dahlander 15.5 kW/ 2.7 kW	11039152
Cyclone 500 C - 2-speed Dahlander 5 kW/ 1 kW	11039153
Cyclone 500 C - 2-speed Dahlander 6.8 kW/ 1.4 kW	11039154
Cyclone 500 C - 2-speed Dahlander 10.5 kW/ 2.2 kW	11039155
Cyclone F400 2-speed - Independent Windings (BI)	
Cyclone 500 A - 2-speed BI 10.5 kW/ 3.5 kW	11039247
Cyclone 500 A - 2-speed BI 16 kW/ 5 kW	11039248
Cyclone 500 A - 2-speed BI 23 kW/ 7.2 kW	11039249
Cyclone 500 B - 2-speed BI 10.5 kW/ 3.5 kW	11039251
Cyclone 500 B - 2-speed BI 16 kW/ 5 kW	11039252
Cyclone 500 C - 2-speed BI 6 kW/ 2 kW	11039253
Cyclone 500 C - 2-speed BI 10.5 kW/ 3.5 kW	11039255

DIMENSIONS (mm)

- Overall dimensions: width (X) x height (Z1) x depth (Y) = 1495 x 1964 x 1621.
- Ø suction = 800.
- Exhaust cross section:
 - vertical discharge R x R = 638 x 638,
 - horizontal discharge R x R1 = 638 x 460.

ELECTRICAL DETAILS - WEIGHT

Type	No of Poles	P (kW)	U (V)	Rated Current (A)	Imax (A)	Id/IN	Weight (kg)
500 A	4	11.0	230/400	21.5	23.7	6.5	549
500 A	4	15.0	230/400	30.0	33.0	7.2	568
500 A	4	22.0	230/400	41.0	45.1	8.0	615
500 B	4	7.5	230/400	15.3	16.8	7.9	522
500 B	4	11.0	230/400	21.5	23.7	6.5	549
500 B	4	15.0	230/400	30.0	33.0	7.2	568
500 C	4	5.5	230/400	11.5	12.7	7.3	514
500 C	4	7.5	230/400	15.3	16.8	7.9	522
500 C	4	11.0	230/400	21.5	23.7	6.5	549
Cyclone F400 2-speed - Dahlander							
500 A2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	574
500 A2 Dahl	4/8	15.5/2.7	400	30.0/9.5	33.0/10.5	6.9/3.9	597
500 A2 Dahl	4/8	22.5/4.4	400	43.0/15.0	47.3/16.5	6.7/3.9	641
500 B2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	537
500 B2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	574
500 B2 Dahl	4/8	15.5/2.7	400	30.0/9.5	33.0/10.5	6.9/3.9	597
500 C2 Dahl	4/8	5.0/1.0	400	9.9/3.3	10.9/3.6	6.4/3.6	526
500 C2 Dahl	4/8	6.8/1.4	400	13.7/5.1	15.1/5.6	7.6/3.6	537
500 C2 Dahl	4/8	10.5/2.2	400	21.0/7.4	23.1/8.1	6.9/3.7	574
Cyclone F400 2-speed - Independent Windings (BI)							
500 A2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	574
500 A2 BI	4/6	16.0/5.0	400	31.0/12.5	34.1/13.8	6.3/4.6	597
500 A2 BI	4/6	23.0/7.2	400	43.0/15.0	47.3/16.5	7.7/7.8	641
500 B2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	574
500 B2 BI	4/6	16.0/5.0	400	31.0/12.5	34.1/13.8	6.3/4.6	597
500 C2 BI	4/6	6.0/2.0	400	12.0/5.6	13.2/6.2	7.1/4.5	537
500 C2 BI	4/6	10.5/3.5	400	21.0/8.6	23.1/9.5	6.4/4.1	574

Cabinet Fans

CYCLONE F400°: type 500

AIRFLOW AND ACOUSTIC DETAILS

- Curves follow those of the French Standard NF EN ISO 5801, Installation C: connected suction - free exhaust.

- P_s = Static suction pressure.
- P_d = Dynamic duct suction pressure.

- For a casing with a connected exhaust (for example: in an attic space), select a casing so that:

System pressure loss (upstream+downstream) = $P_s - P_d + C$

NOTE: do not forget the pressure loss in the ductwork downstream of the fan which may be high.

Example: see CYCLONE type 225 page 126.

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

AVAILABLE OPTIONS R8

Description	Code
Casing configuration options	
Horizontal discharge	OPT39300
Vertical discharge	OPT39301
Motor on opposite face	OPT39302
500 rain hood	OPT39330
Thermal insulation - 500	OPT39362
Electrical accessories options	
"All-in-One" 1-speed Des < 8 kW	OPT39303
"All-in-One" 1-speed Des < 13 kW	OPT39304
"All-in-One" 1-speed Des < 23 kW	OPT39305
"All-in-One" 2-speed Des Dah < 8 kW - connected/fitted	OPT39307
"All-in-One" 2-speed Des DAH < 13 kW	OPT39308
"All-in-One" 2-speed Des DAH < 23 kW	OPT39309
"All-in-One" 2-Speed Des BI < 8 kW - connected/fitted	OPT39311
"All-in-One" 2-speed Des BI < 13 kW	OPT39312
"All-in-One" 2-speed Des BI < 23 kW	OPT39313
Proximity switch 1-speed max 6.5 kW	OPT39315
Proximity switch 1-speed max 15 kW	OPT39316
Proximity switch 1-speed max 30 kW	OPT39317
Proximity switch 2-speed max 6.5 kW	OPT39318
Proximity switch 2-speed max 13 kW	OPT39319
Proximity switch 2-speed max 22 kW	OPT39320
100 -1000 Pa pressure switch	OPT39321
2nd pressure switch 100-1000 Pa.	OPT39322

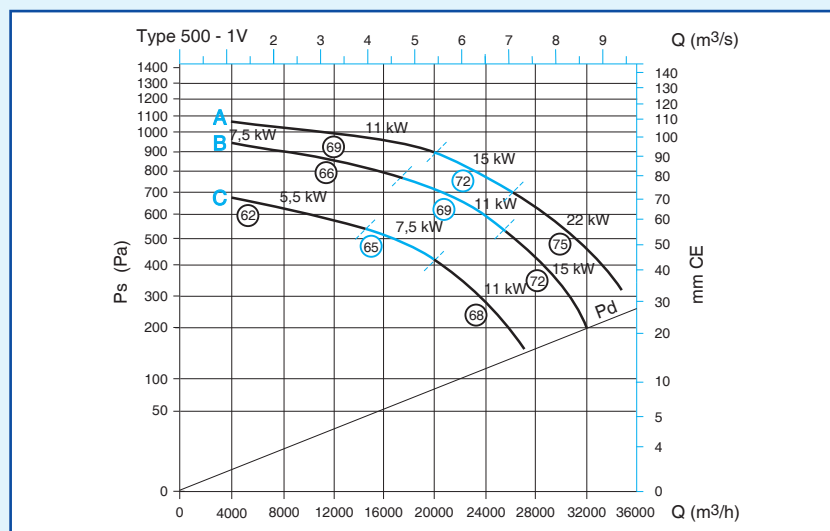
NOTE: the integrated "All-in-One" option includes the IP+DP.

CONNECTION ACCESSORIES R8

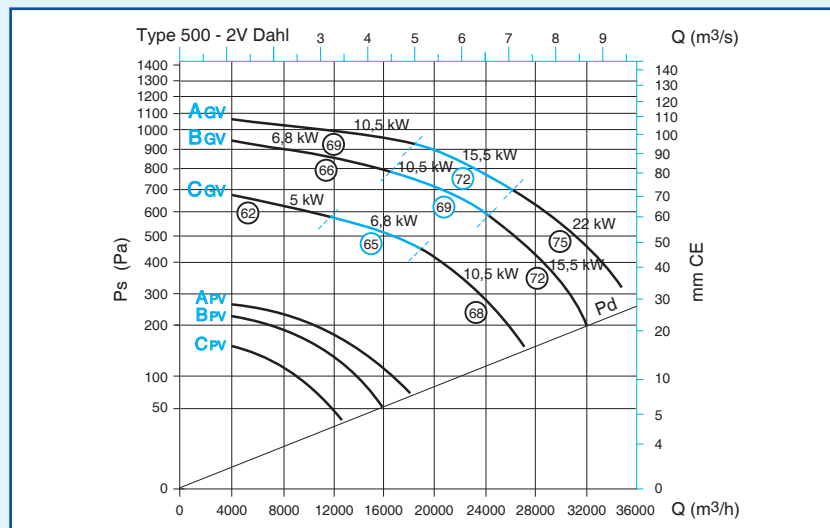
Description	Code
Flexible sleeve kit M0 Ø 800 mm	11096931
Flexible exhaust sleeve type 500	11039338
Flexible exhaust adapter type 500	11039346
6 pieces of anti-vibration mountings	11039348

COEFFICIENT C FOR THE CONNECTED EXHAUST CORRECTION

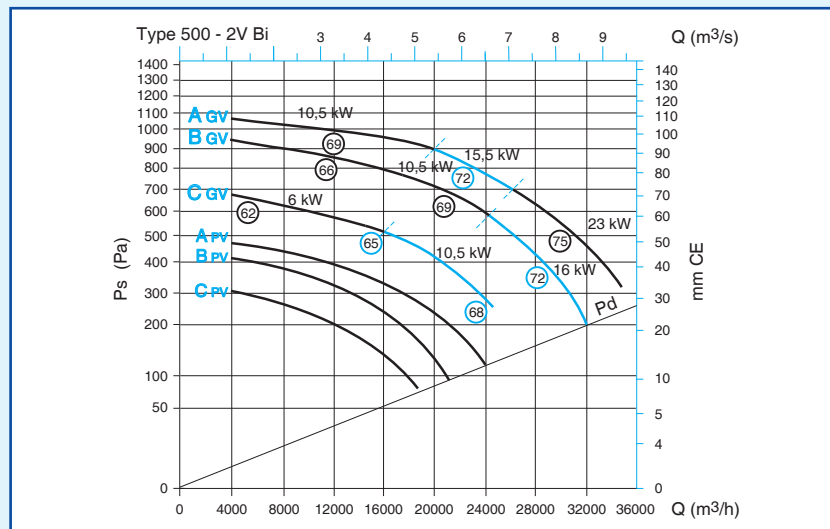
Q (m³/h)	8000	12000	16000	20000	24000	28000	32000
C (Pa)	45	102	182	284	409	557	728



Cyclone F 400°, 500, 1-speed



Cyclone F 400°, 500, 2-speed - Dahlander



Cyclone F 400° - 500, 2-speed - Independent windings