



CATALOG

STANDARDS - RULES
CONVENTIONS



SMOKE
EXTRACTION



GENERAL
VENTILATION



EXPLOSIVE
ATMOSPHERES



COOLING



DRYING



INDUSTRIAL
VENTILATION



ANCILLARIES



AREM is one of the largest French manufacturers of fans known throughout Europe.

AREM is especially known for its experience in making axial fans. Belt-driven and direct-driven, with short or long casings, with or without venturi, they are all designed in accordance with the specifications for the numerous applications for which they are intended.

Centrifugal fans using forwards or backwards inclined blades have just joined this range, which is one of the most extensive on the market.



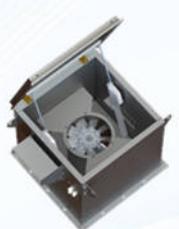
Direct-driven...



...Belt-driven



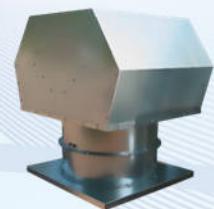
Soundproof plenum box...



...With motorized opening



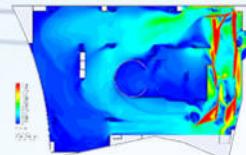
Roof fan - Horizontal discharge



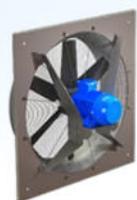
Roof fan -Vertical discharge



Jet fan (Accelerator)



CFD Simulation



Wall-mounted



... With ECM



Axus with EC motors



...Specific with EC motors

**AXUS
RANGE :**

AX
BX
CX
EX



**PAF
HATCH**



TH
TV
TD



**JFA
CFD STUDY**

DA
DA ECM



Available on request

Available on request

Available on request

**AXUS EC
RANGE :**

AX
BX
CX
EX



CENTRIFUGALS



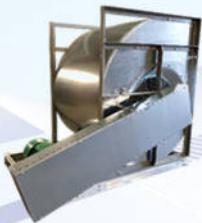
Direct-driven...



...Belt-driven



Direct-driven...



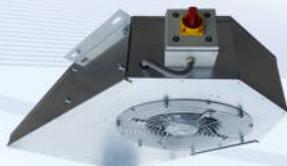
...Belt-driven



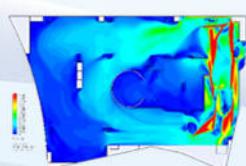
Plenum box – backwards inclined blades



Plenum box – forwards inclined blades



Jet fan (Accelerator)



JFC
CFD STUDY



Available on request



Roof fan with horizontal discharge



Roof fan with vertical discharge



Plastic casing...



...Steel casing

TCH
TCV
TCO
TCVP



SMALL DIAMETER :
CP
CB



Available on request

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We reserve the right to make modifications resulting from technical, mechanical, electrical or other types of changes.

The illustrations are non-binding.



ANCILLARIES

We have a large number of ancillaries for centrifugal and axial fans to meet your particular requirements and installations.

APPLICATIONS:

- Standard, ambient environment -20°C to +40°C
- High temperatures F200, F300 and F400
- Explosive atmospheres, ATEX
- Aggressive atmospheres (chemical, offshore, etc.)

FAMILIES OF ANCILLARIES:

- Safety guard
- Inlet and outlet connection (outlet backdraught damper, inlet bellmouth, rain and anti-bird cap, etc.)
- Matching flange
- Duct (rigid and flexible duct, inlet bend, circle-rectangle adaptor, etc.)
- Sound attenuation (silencer, insulation casing, etc.)
- Mechanical filtration (anti-vibration mounts in rubber or with spring)
- Support and fastening (support feet, support base, base plate, etc.)
- Electrical connections
- Switch connectors and junction box

MATERIALS AND FINISHES:

- Plastic
- Aluminium
- Pre-galvanized steel
- Hot-dip galvanized steel
- 304L stainless steel
- 316L stainless steel

SURFACE TREATMENTS AND FINISHES

- Epoxy paint according to RAL "x"
- Passivation of stainless steels
- Anodization of aluminium

This section contains the most commonly used standard ancillaries with their different areas of application. We are at your service to meet any specific requirements and constraints. Please contact the AREM sales team.



CONNECTION – AXIALS

Common ancillaries

STD F200 F300 F400 ATEX



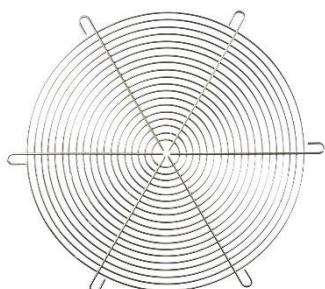
Inlet or outlet flexible flange

Circular form
Anti-vibration seal function
Polyurethane fabrics
Glass reinforced
Steel framework
160 mm depth



Matching flange

Rigid in pre-galvanized steel
Option for hot-dip galvanization, stainless steel, painted aluminium, etc.
With dimpling as standard up to Ø1000mm
AREM or Eurovent standard drill holes
Size Ø250 to 1800mm



Safety guard

Inlet / outlet protection
Electrogalvanized finish
Stainless steel option
10, 20, 30mm meshing
Size Ø250 to 1800mm
Above 1800mm, consult us.



Inlet bellmouth

Pre-galvanized as standard
Option for hot-dip galvanization, stainless steel, painted aluminium, etc.
Size Ø250 to 1800mm
Length 310mm (standard)



Outlet backdraught damper

Connection at the outlet
Option for hot-dip galvanization, stainless steel, painted aluminium, etc.
Size Ø250 to 1600mm
Above 1600mm, consult us.





CONNECTION – CENTRIFUGALS

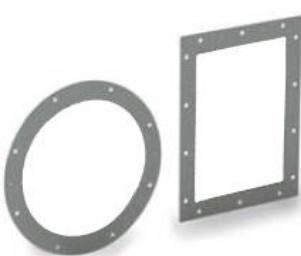
Common ancillaries

STD F200 F300 F400 ATEX



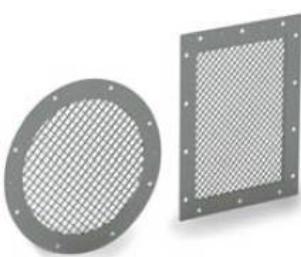
Inlet / outlet flexible flange

Circular / rectangular
Anti-vibration seal function
Polyurethane fabrics
Glass reinforced
Steel framework



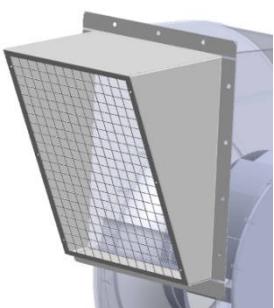
Inlet / outlet matching flange

Pre-galvanized steel
Stainless steel option
Consult us for other materials



Safety guards

Inlet / outlet protection
Pre-galvanized steel
Stainless steel option
Consult us for other materials



Rain and anti-bird cap

Pre-galvanized steel
Stainless steel option
Consult us for other materials



Conversion / reduction parts

Rectangle-Circle
Rectangle-Rectangle
Circle-Circle
Consult us for specific dimensions





FASTENING – SUPPORTS AND INSTALLATION KITS

Common ancillaries

STD F200 F300 F400 ATEX



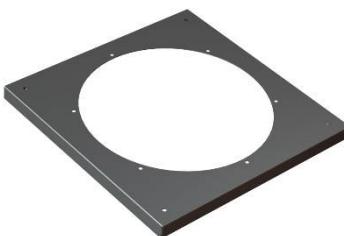
Support feet

Simple or reinforced
For floor or frame fastening
Galvanized steel
Option for stainless steel and other materials
Consult us for suspended versions



Gusset

For vertical mounting
Available in 3 sizes
Galvanized steel
Option for stainless steel and other materials
Consult us for specific requests



Support plate / Base plate / Specific support

For vertical mounting
Galvanized steel
Option for stainless steel and other materials
Consult us for customized dimensions and drill holes.



Anti-vibration mounts

Models in polymer or with spring
Galvanized steel
Option for stainless steel and other materials



Frames and installation kits

On request, we can study your constraints in order to size and design specific structures or frames.





SWITCH AND JUNCTION BOX

Common ancillaries

STD F200 F300 F400 ATEX



ON/OFF high temperature switch connector

3 or 6 poles
Safety lock
IP67
Auxiliary contact
Output with cable gland
Available from 25A to 125A



ON/OFF switch connector

3 or 6 poles
Safety lock
IP 55
Auxiliary contact
Output with cable gland
Available from 16A to 63A
Temperature from -5 to 50°C
Consult us below -40°C.



Switch connector in a hazardous zone

Gas and Dust
Zone II 2GD



Metal junction box

Pre-galvanized steel
Connection on terminal blocks
Output with cable gland



Electric cable

Standard cable with or without shielding
Available for high temperatures.
Consult us below -40°C and for specific requests.





CABLE SECTION AND TYPE

Choice of cable section

For correct operation of the fan, the cables must be selected depending on the application and the installed electrical power. We recommend the following minimal sections for 10-m cable lengths by default.

Nominal power kW	PVC (1) S mm ²	EPR (2) S mm ²	I max. (3) A	I max. (4) A
0.12	1	1	1	0.4
0.18	1	1	1.4	1
0.25	1	1	2	1
0.37	1	1	2.8	1
0.55	1	1	3.6	1
0.75	1	1	5	2
1.1	1	1	7.5	3
1.5	1	1	9.5	3
2.2	1.5	1	15	5
3.0	1.5	1.5	-	7
4.0	1.5	1.5	-	10
5.5	1.5	1.5	-	12
7.5	2.5	1.5	-	16
9.2	2.5	1.5	-	19
11	4	2	-	23
15	4	2	-	31
18.5	6	4	-	38
22	10	6	-	46
30	10	10	-	62
37	16	10	-	76
45	16	16	-	92
55	25	25	-	111
75	35	35	-	151
90	50	50	-	179
110	70	70	-	217
132	95	95	-	256
150	120	120	-	290
185	150	150	-	358
200	185	185	-	387
220	240	240	-	425
250	240	240	-	477

Notes:

(1) Cable with thermoplastic insulator (e.g. PVC, PE) with maximum conductor temperature 70°C

(2) Cable with elastomer insulator (e.g. EPR, EPDM) with maximum conductor temperature 85°C

(3) Permissible current for a single-phase 230/277V (50/60Hz) network

(4) Permissible current for a triple-phase 400/480V (50/60Hz) network

Depending on the applications, we use the relevant cables:

Standard cable -20°C to +85°C



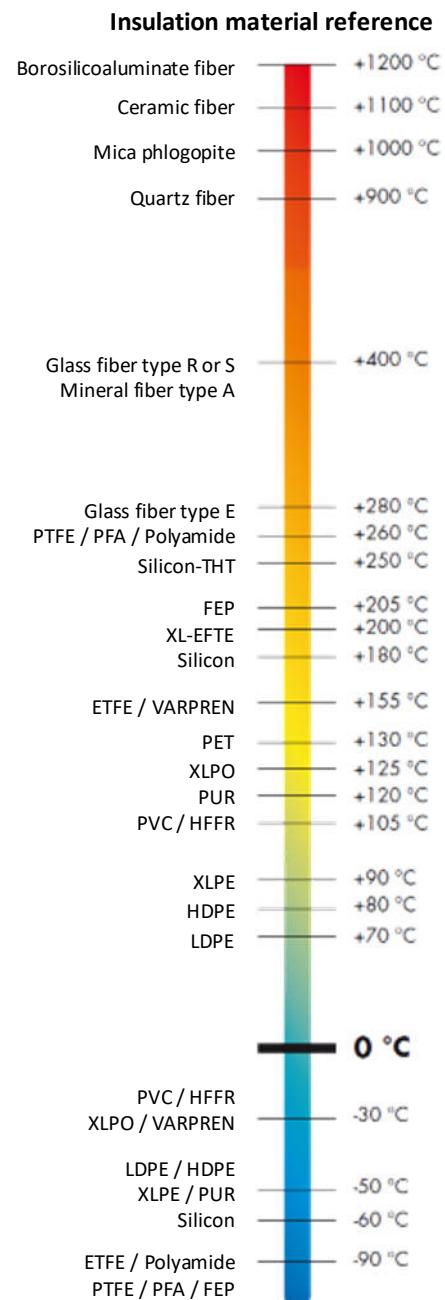
Shielded cable



Cable for F200/2h use



Cable for F300-F400/2h use



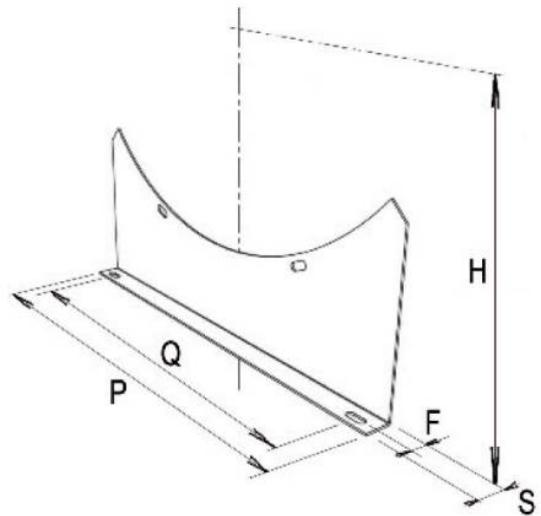


SUPPORT FEET / BACKDRAUGHT DAMPERS

General dimensions

The fans can be installed on the floor using a dedicated support. We propose standard dimension feet. Simple and efficient, they are ideal for all types of flat and rigid floors. For customized sizing, please ask us.

Reference PS...	Ø Fan mm	H mm	P mm	Q mm	F mm	S mm
PS0265GF	250	170	200	150	20	32
PS0315GF	315	210	270	220	20	32
PS0350GF	350	240	300	250	20	32
PS0400GF	400	270	340	290	20	32
PS0450GF	450	300	380	330	20	32
PS0500GF	500	340	430	380	20	32
PS0550GF	560	370	470	420	20	32
PS0630GF	630	430	550	500	20	32
PS0700GF	710	470	600	540	25	40
PS0800GF	800	540	650	590	25	40
PS0900GF	900	600	750	670	25	40
PS1000GF	1000	670	850	770	30	55
PS1120GF	1120	750	950	870	30	55
PS1250GF	1250	830	1000	920	30	55
PS1400GF	1400	940	1120	1040	30	55
PS1600GF	1600	1070	1500	1420	30	55
PS1800GF	1800	1130	1600	1450	40	80



To prevent air flow returns in an air supply network, backdraught dampers can be installed at the outlet. Note, these are not sealed backdraught dampers. Completely closed, an air leakage rate is present if there is a pressure difference between the working volumes or enclosures. If a safety guard has to be fitted behind the backdraught damper, then an extended backdraught damper will be required.

Replace reference “/x” with:

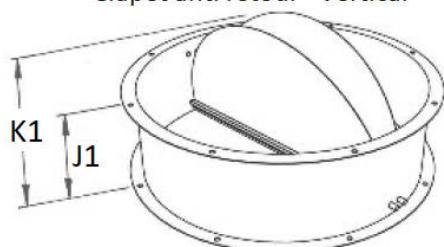
- /H for a horizontal backdraught damper
- /V for a vertical backdraught damper

Reference CLAPET...	Ø Fan mm	J1 mm	K1 mm	J2 mm	K2 mm
CLAPETO400GF/x	400	254	195	254	260
CLAPETO450GF/x	450	254	190	254	270
CLAPETO500GF/x	500	254	210	254	290
CLAPETO550GF/x	560	254	270	254	325
CLAPETO630GF/x	630	254	300	254	365
CLAPETO710GF/x	710	254	330	254	395
CLAPETO800GF/x	800	254	380	254	440
CLAPETO900GF/x	900	340	460	340	550
CLAPETO1000GF/x	1000	340	515	340	605
CLAPETO1120GF/x	1120	410	540	410	635
CLAPETO1250GF/x	1250	410	600	410	695
CLAPETO1400GF/x	1400	650	730	650	825
CLAPETO1600GF/x	1600	650	775	650	885

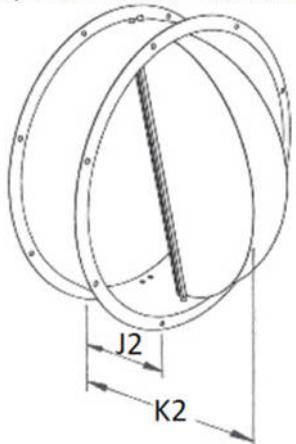
Notes:

For diameters greater than 1600mm, contact us.

Clapet anti retour - Vertical



Clapet anti retour - Horizontal



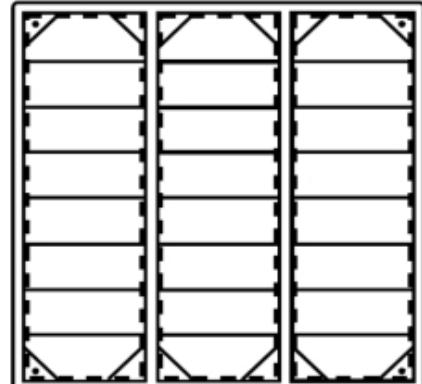
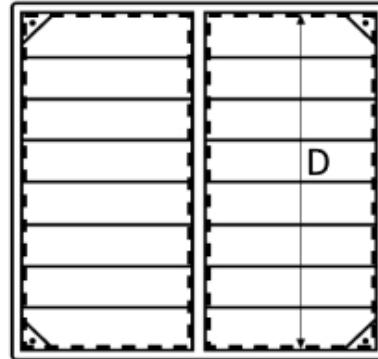
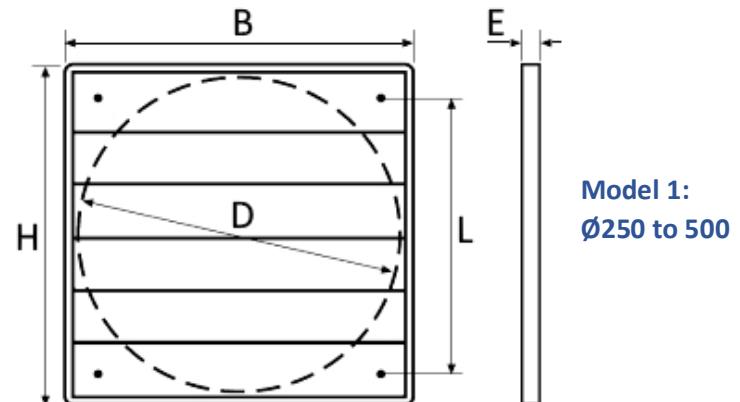
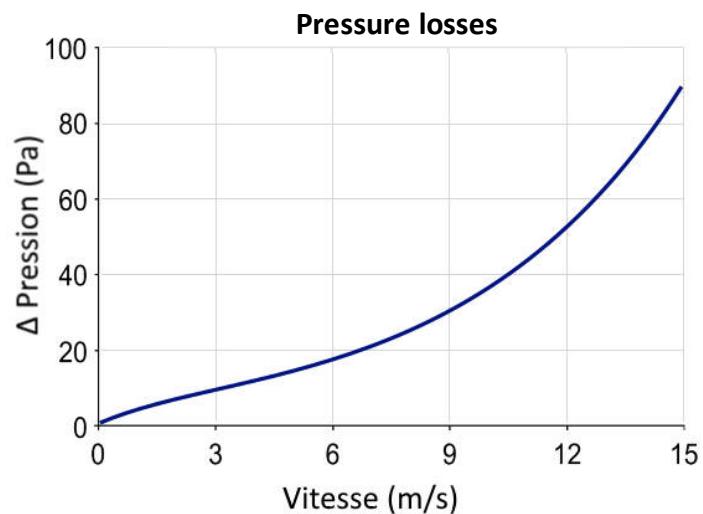


LOUVRE SHUTTERS

General dimensions

The louvre shutter is to be installed at the fan outlet. The louvres open when the fan is in operation and close under the force of gravity. Made in plastic material, also available in aluminium, it is advised from -30°C to +60°C.

Reference VOLET...	Ø Fan mm	D mm	B/H mm	L mm	E mm
VOLET0240	250	258	294	232	26
VOLET 0300	315	310	346	276	26
VOLET0350	350	360	397	310	26
VOLET0400	400	422	462	366	26
VOLET0450	450	462	501	395	31
VOLET0500	500	505	548	443	31
VOLET0550	560	563	603	520	28
VOLET0650	630	655	696	628	31
VOLET0700	710	700	740	670	40
VOLET0800	800	800	840	772	40
VOLET0900	900	900	940	872	40
VOLET1000	1000	1000	1040	972	40





GUSSETS: VERTICAL MOUNTING

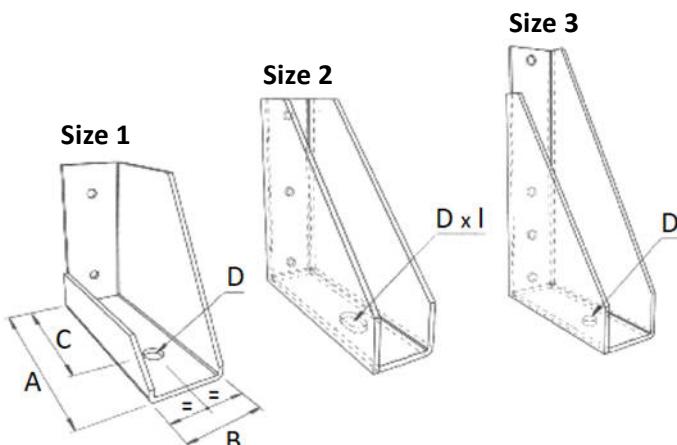
General dimensions

For vertical mounting, gussets are used to fix the fan to a frame or working platform.

Reference Size 1/2/3	Ø Fan mm	A mm	B mm	C mm	D mm
Size 1	500 to 800	122	46	88	12
Size 2	900 to 1250	207	56	134	16x30
Size 3	1400 to 1800	207	70	135	16

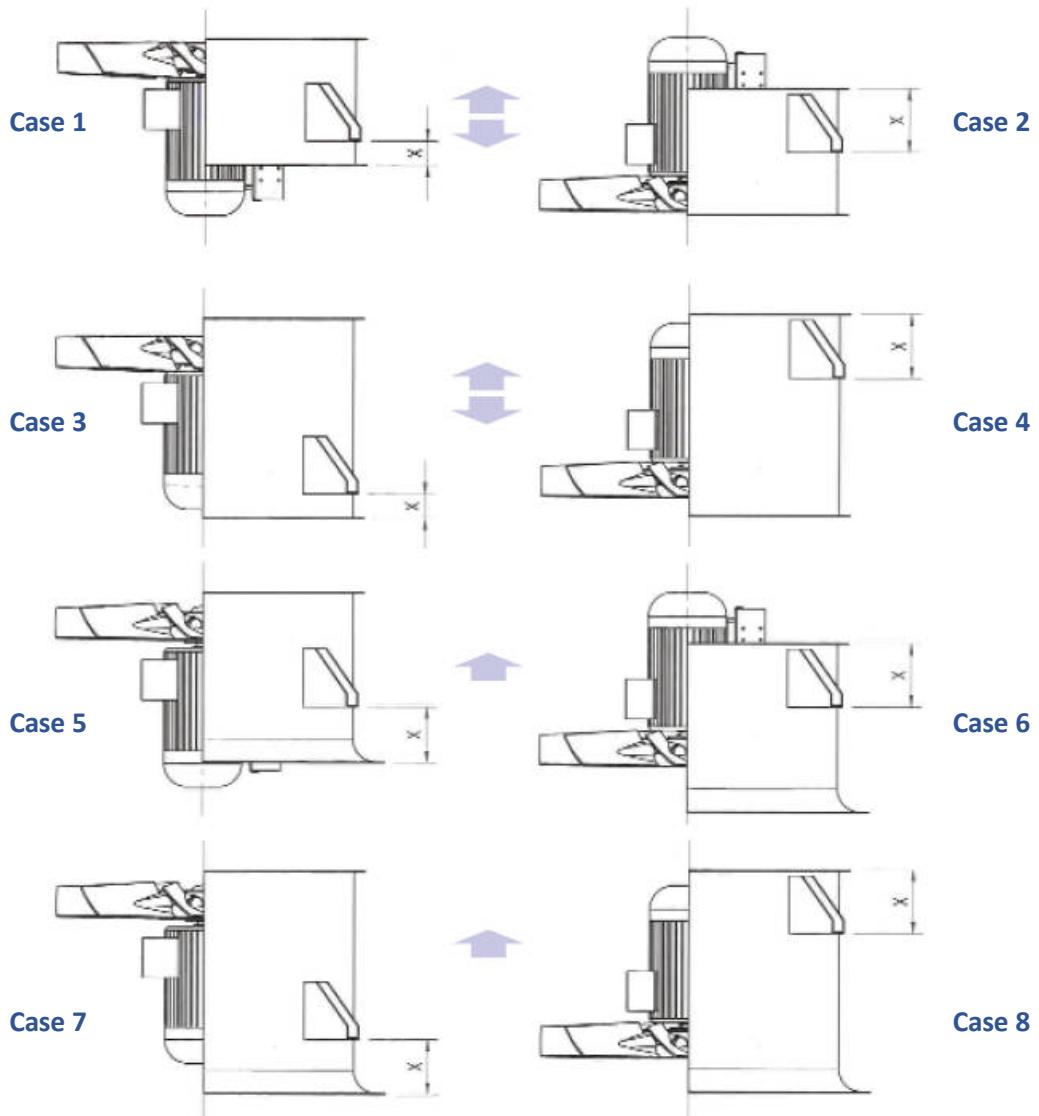
Attention:

The gussets must be mounted outside the impeller route.



Configuration:

Reference 710...	Ø Fan mm	Motor frame size	Case 1 mm	Case 2 mm	Case 3 mm	Case 4 mm	Case 5 mm	Case 6 mm	Case 7 mm	Case 8 mm
710557	400 to 800	up to 112	25	135	25	135	240	135	240	135
710558	500 to 800	132 to 160	30	225	30	225	240	225	240	225
710558	900 to 1250			30	225	30	225	240	225	240
710559	1400 to 1800			30	360	30	360	265	360	265



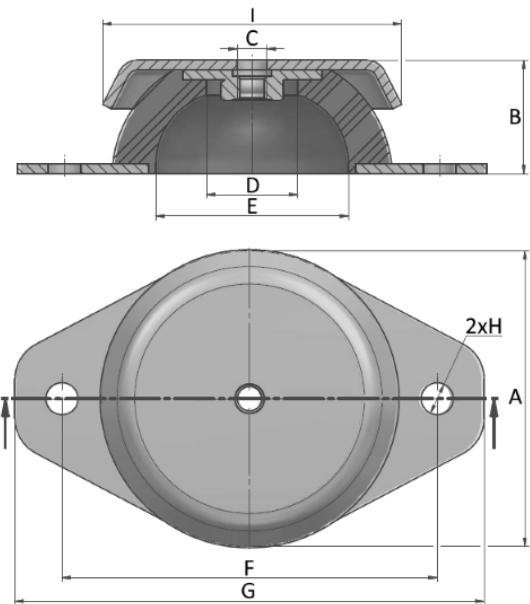


ANTI-VIBRATION MOUNTS

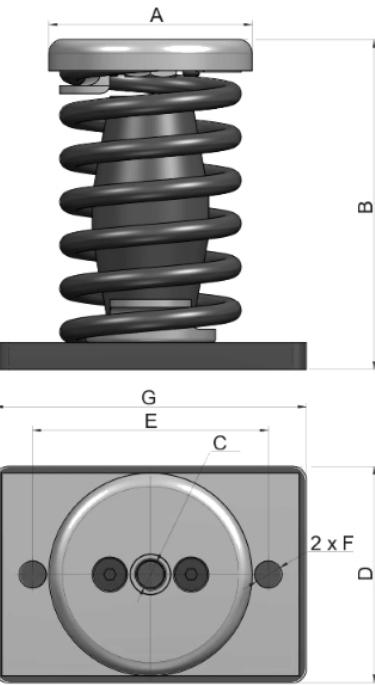
General dimensions

These mounts are in rubber with a metal cup or with a spring. They allow for quick installation and insulation from the vibrations emitted by the fans and are to be adjusted by a set of four mounts. Depending on the requested filtration level, it is the user's responsibility to define the requirement for a set of anti-vibration mounts.

Reference PLOT...	Hardness sh	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Weight kg	Permissible load kg
PLOT060APKU45	45	60	23	M6	14	39	76	95	6.5	60.5	0.13	15
PLOT060APKU60	60	60	23	M6	14	39	76	95	6.5	60.5	0.13	25
PLOT060APKU75	75	60	23	M6	14	39	76	95	6.5	60.5	0.13	45
PLOT080APKU45	45	86	27	M8	25	65	100	120	8.5	85	0.23	75
PLOT080APKU60	60	86	27	M8	25	65	100	120	8.5	85	0.23	110
PLOT080APKU75	75	86	27	M8	25	65	100	120	8.5	85	0.23	150
PLOT100APKU45	45	100	28	M10	22	67	124	149	10.5	103.5	0.47	90
PLOT100APKU60	60	100	28	M10	22	67	124	149	10.5	103.5	0.47	160
PLOT100APKU75	75	100	28	M10	22	67	124	149	10.5	103.5	0.47	220
PLOT150APKU45	45	150	37	M14	34	114	182	214	12	155	1.11	130
PLOT150APKU60	60	150	37	M14	34	114	182	214	12	155	1.11	250
PLOT150APKU75	75	150	37	M14	34	114	182	214	12	155	1.11	350



APK...



AMC...

Reference PLOT...	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg	Permissible load kg
PLOTAMC150	75	122	M12	80	87	10	115	1.1	150
PLOTAMC200	75	122	M12	80	87	10	115	1.2	200
PLOTAMC250	75	122	M12	80	87	10	115	1.3	250
PLOTAMC350	75	122	M12	80	87	10	115	1.4	350
PLOTAMC500	93	120	M14	100	120	12	150	2.6	500
PLOTAMC750	93	120	M14	100	120	12	150	3.1	750



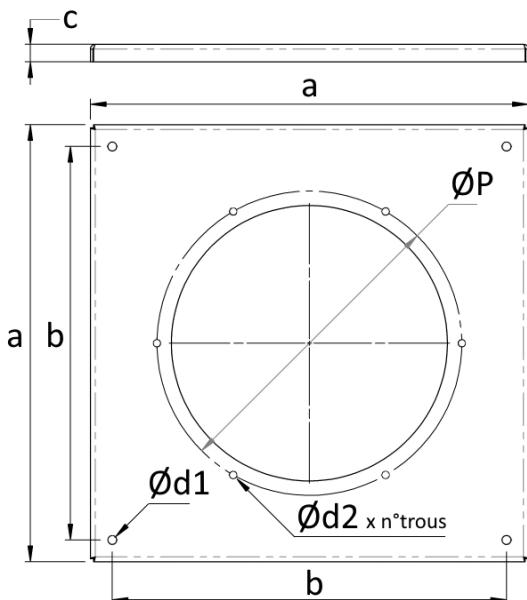
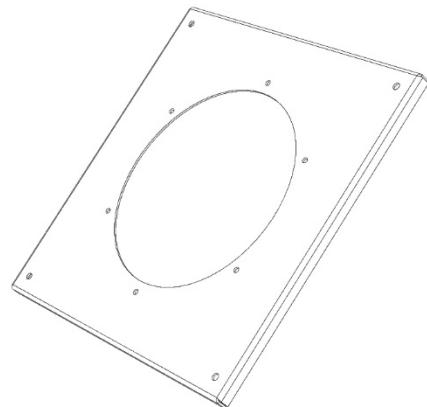
BASE PLATE

General dimensions

For a pedestal or wall-mounted installation, we have standard base plates that match the fans. We can also make specific parts in line with your constraints on request. Please consult the sales team.

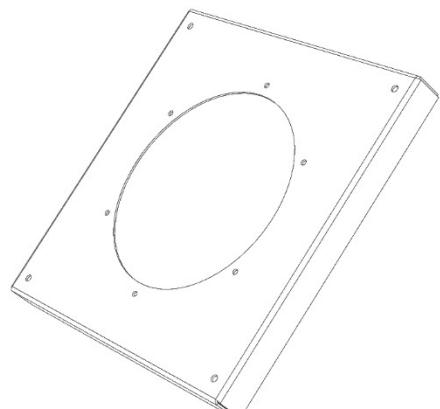
Reference Support base	Ø Fan mm	a mm	b mm	c mm	d1 mm	d2 x n° mm	P mm
712226	315	430	380	25	13	12 x 6	351
712227	350	485	435	25	13	12 x 6	390
712228	400	540	490	25	13	12 x 6	440
714285	450	590	535	25	13	12 x 6	490
714286	500	700	615	25	13	12 x 6	540
712230	560	725	675	25	13	12 x 6	594
713205	630	805	750	25	13	12 x 6	670
714282	710	890	810	25	13	12 x 6	744
714283	800	1050	910	25	13	12 x 8	850
714284	900	1150	1010	25	13	15 x 12	954
713218	1000	1200	1100	25	13	15 x 12	1056
713219	1120	1300	1200	25	13	15 x 12	1190
713220	1250	1400	1300	25	13	15 x 12	1320

BASE PLATE (small)



Reference Base plate	Ø Fan mm	a mm	b mm	c mm	d1 mm	d2 x n° mm	P mm
800231	315	500	400	50	13	12 x 6	351
800291	350	500	400	50	13	12 x 6	390
800233	400	600	500	50	13	12 x 6	440
800255	450	600	500	50	13	12 x 6	490
800284	500	700	600	50	13	12 x 6	540
800256	560	700	600	50	13	12 x 6	594
800237	630	800	700	50	13	12 x 6	670
800238	710	900	800	50	13	12 x 6	744
800239	800	1000	900	50	13	12 x 8	850
800243	900	1100	1000	50	13	15 x 12	954
800267	1000	1200	1100	65	13	15 x 12	1056
800268	1120	1370	1270	65	13	15 x 12	1190
800290	1250	1370	1270	65	13	15 x 12	1320

BASE PLATE (large)



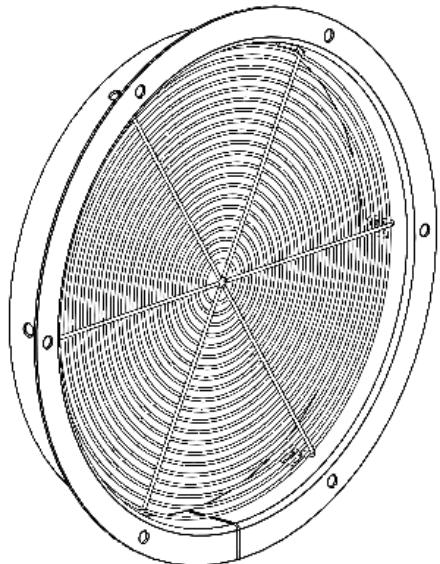
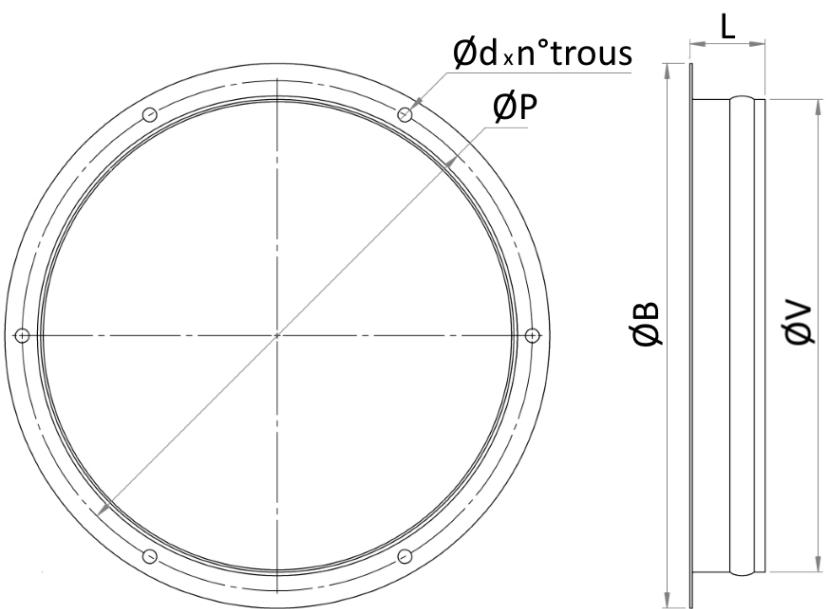
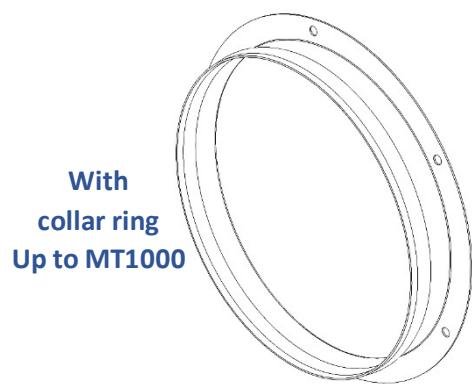


BEND MATCHING FLANGE

General dimensions

In general, it allows the connection to a duct or a flexible flange between the fan and the air supply network. We recommend checking the water tightness of the installation for effective use.

Reference MT...	V (interior) mm	B mm	d x n° mm	P mm	L mm	thickness mm
MT0250	265	330	9 x 6	300	70	2
MT0315	315	385	12 x 6	351	70	2
MT0350	350	425	12 x 6	390	70	2
MT0400	400	470	12 x 6	440	70	2
MT0450	450	520	12 x 6	490	70	2
MT0500	500	572	12 x 6	540	70	2
MT0560	560	626	12 x 6	594	70	2
MT0630	630	704	12 x 6	670	70	2
MT0710	710	780	12 x 6	744	70	2
MT0800	800	885	12 x 8	850	70	2
MT0900	900	990	15 x 12	954	70	2
MT1000	1000	1090	15 x 12	1056	70	3
MT1120	1120	1230	15 x 12	1190	70	3
MT1250	1250	1375	15 x 12	1320	70	3
MT1400	1400	1530	15 x 12	1480	120	4
MT1600	1600	1730	15 x 16	1660	120	4
MT1800	1800	1930	15 x 24	1880	120	4



Also available with an integrated safety guard. Please ask us.



FLAT MATCHING FLANGE

General dimensions

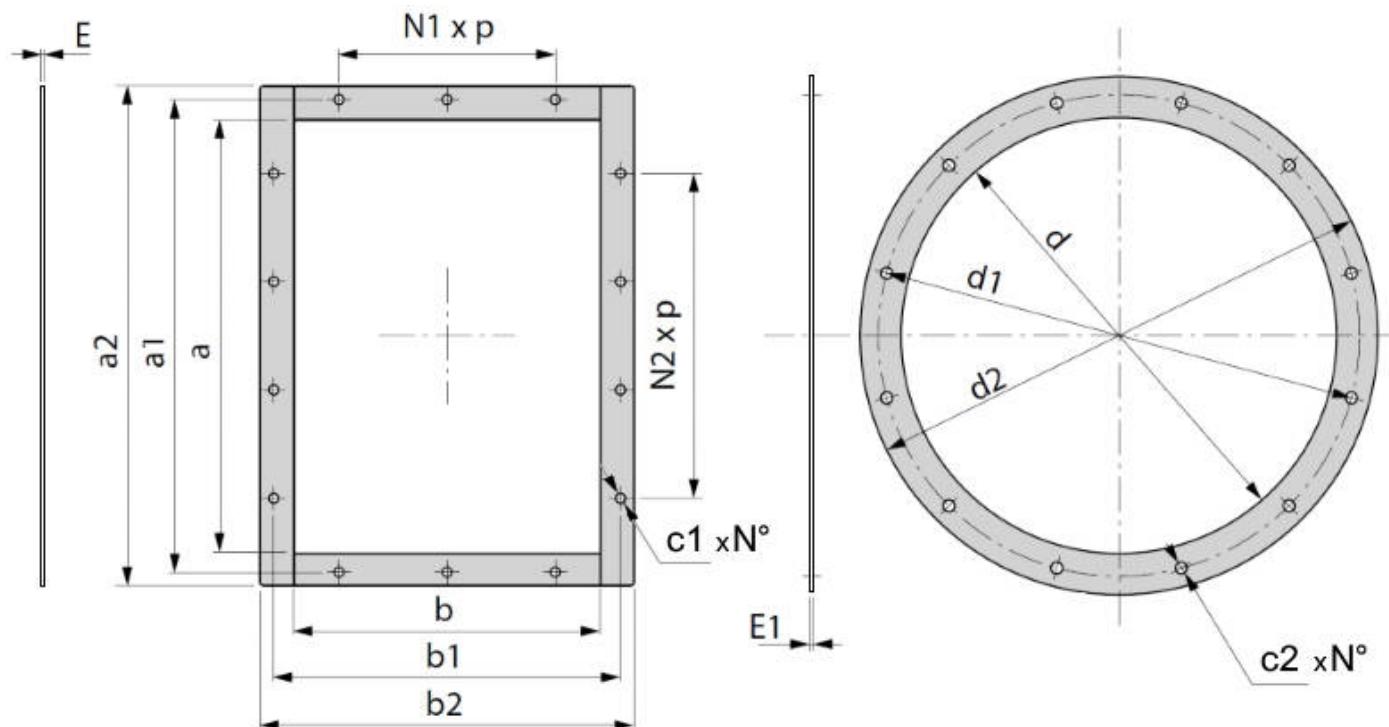
- Mounting at the inlet: circular matching flange
- Mounting at the outlet: rectangular matching flange

Size	a mm	b mm	a1 mm	b1 mm	a2 mm	b2 mm	c1 x N° mm	N1 x p mm	N2 x p mm	E mm	c2 x N° mm	d mm	d1 mm	d2 mm	E1 mm
250	258	185	292	219	328	255	12 x N°10	112 x 1	112 x 2	4	8 x N°8	185	219	250	3
280	288	205	332	249	368	285	12 x N°10	125 x 1	125 x 2	4	8 x N°8	205	241	275	3
310	322	229	366	273	402	309	12 x N°10	125 x 1	125 x 2	4	8 x N°8	228	265	298	3
350	361	256	405	300	441	336	12 x N°10	125 x 1	125 x 2	4	10 x N°8	255	292	325	4
400	404	288	448	332	484	368	12 x N°14	125 x 2	125 x 3	4	12 x N°8	285	332	365	4
450	453	322	497	366	533	402	12 x N°14	125 x 2	125 x 3	4	12 x N°8	320	366	400	4
500	507	361	551	405	587	441	12 x N°14	125 x 2	125 x 3	4	12 x N°8	360	405	440	4
560	569	404	629	464	669	504	14 x N°14	160 x 2	160 x 3	4	12 x N°8 or 12	405	448	485	4
630	638	453	698	513	738	553	14 x N°14	160 x 2	160 x 3	4	12 x N°8 or 12	455	497	535	4
710	715	507	775	567	815	607	14 x N°16	160 x 2	160 x 4	6	14 x N°8 or 12	505	551	585	4
800	801	569	871	639	921	689	14 x N°14	200 x 2	200 x 3	6	14 x N°12 or 16	565	629	665	4
900	898	638	968	708	1018	758	14 x N°18	200 x 3	200 x 4	8	14 x N°12 or 16	635	698	735	5
1000	1007	715	1077	785	1127	835	14 x N°18	200 x 3	200 x 4	8	14 x N°16	715	775	815	5
1120	1130	801	1210	881	1270	941	18 x N°20	200 x 3	200 x 5	8	14 x N°16	805	861	905	6
1250	1267	898	1347	978	1407	1038	18 x N°24	200 x 4	200 x 6	8	14 x N°16	905	958	1005	6
1400	1421	1007	1501	1087	1561	1147	18 x N°24	200 x 4	200 x 6	10	14 x N°16 or 24	1007	1067	1107	6

Notes:

"c1 x N°" and "c2 x N°" refer to "the diameter x number of holes" distributed symmetrically over the flange

"N1 x p" and "N2 x p" refer to "the spacing of the holes x the pitch" distributed symmetrically over the flange



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