



AREM

THE VENTILATION PERFORMANCE

CATALOG

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.



STANDARDS - RULES
CONVENTIONS



SMOKE
EXTRACTION



GENERAL
VENTILATION



EXPLOSIVE
ATMOSPHERES



COOLING



DRYING



INDUSTRIAL
VENTILATION



ANCILLARIES



SMOKE
EXTRACTION



GENERAL
VENTILATION



EXPLOSIVE
ATMOSPHERES



COOLING



DRYING



INDUSTRIAL
VENTILATION



Direct-driven...



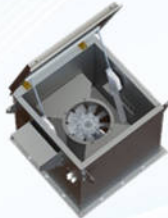
...Belt-driven

AXUS
RANGE :

AX
BX
CX
EX



Soundproof plenum box...

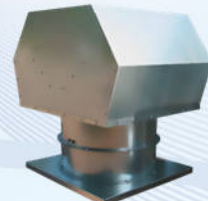


...With motorized opening

PAF
HATCH



Roof fan - Horizontal discharge

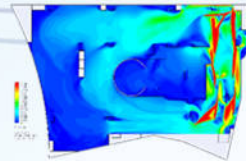


Roof fan -Vertical discharge

TH
TV
TD



Jet fan (Accelerator)



CFD Simulation

JFA
CFD STUDY



Wall-mounted



... With ECM

DA
DA ECM



Available on request

Available on request

Available on request



Axis with EC motors



...Specific with EC motors

AXUS EC
RANGE :

AX
BX
CX
EX





SMOKE
EXTRACTION



GENERAL
VENTILATION



EXPLOSIVE
ATMOSPHERES



COOLING



DRYING



INDUSTRIAL
VENTILATION



Direct-driven...



...Belt-driven

BACKWARD
CURVED
FAN :

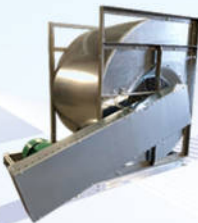
G Series
R Series
V Series
Z Series
VRD/VRDGT
RL/RM EC



Available on request



Direct-driven...



...Belt-driven

FORWARD
CURVED
FAN :

C Series
VAD
TDA
TMD



Available on request



Plenum box – backwards
inclined blades

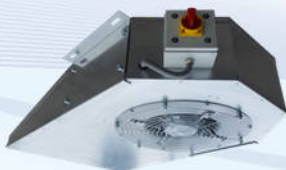


Plenum box – forwards
inclined blades

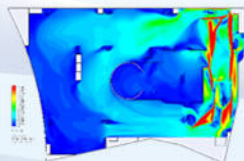
CELN
CELN EC
VGND
VGNT



Available on request



Jet fan (Accelerator)



CFD Simulation

JFC
CFD STUDY



Roof fan with horizontal
discharge



Roof fan with vertical
discharge

TCH
TCV
TCO
TCVP



Plastic casing...



...Steel casing

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.



EXPLOSIVE ATMOSPHERES – AXIALS



DESCRIPTION

We have a range from diameter 250mm to 1800mm, from a few hundred m³/h to 240,000m³/h, with motors with 2, 4 and 6 poles, 1 or 2 speeds. Our fans might also be suitable for use in geographic areas with specific electricity networks, i.e. 60 Hz.

Other motor speeds are available on request.



APPLICATION

ATEX-certified fans are designed for use in zones classified as hazardous transporting inflammable and combustible substances.

Air extraction in explosive atmospheres:

- Group II
- Zone 1-2
- Gas-Dust



FLUID TEMPERATURE

The standard operating temperatures are from -20°C to +40°C with a class F motor.

As a measure of efficiency, our ATEX Zone 1-2G solution has an anti-static polyamide impeller and Gas II B motors (T4).

Many other solutions covered by our certification can be proposed by our sales team on request (materials, dust, ignition temperature, etc.).



CONSTRUCTION

Our fans, which comply with **ATEX Directive 2014/34/EU**, are made in our factory with pre-galvanized steel as standard. To meet your particular requirements, we can manufacture upon request:

- 304L or 316L stainless steel
- Hot-dip galvanized steel
- Surface treatment with epoxy paint



- ✓ **AXUS range: AX - BX - CX**
- ✓ **Roof fan: TH - TV**



ANCILLARIES

In line with your requirements, we have safety guards, support feet, rigid coupling flanges, outlet backdraught dampers, on-off switch connectors, etc. to simplify your installation. See **ANCILLARIES tab** for more information.



OPTION

We can wire motors, switch connectors, make special productions, etc. and study your requirements to meet your specifications and constraints.

Reminder: All conventional and normative elements are presented in the **STANDARDS-RULES-CONVENTIONS** tab. All ancillaries are presented in the **ANCILLARIES** tab at the end of the catalog. Please contact the sales team for your specific requirements.



AXUS RANGE – ATEX AXIAL FANS: GROUP II / ZONES 1&2

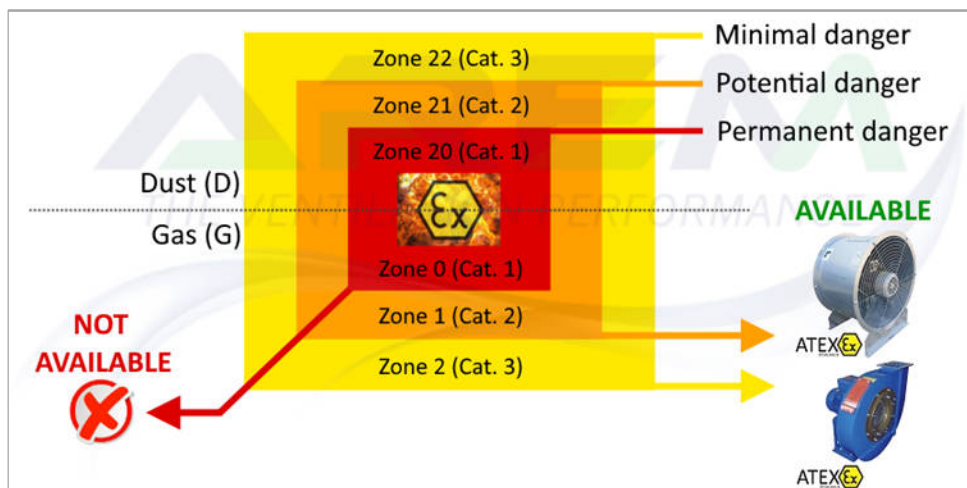
ATEX compliance: Directive 2014/34/EU

For use in factories, wastewater treatment plants, silos, chemical or petrochemical installations, more generally industrial installations which require the use of safety fans, boiler rooms, factory technical rooms, etc.

Standards EN 1127 and EN 14986 are our guide for the prevention, protection and design of fans in compliance with Directive 2014/34/EU in order to satisfy your requirements in France or the European Community and worldwide.

The definition of Zone and temperature Class is the user's responsibility; AREM shall not be held responsible for an inaccurate definition. See STANDARDS – RULES – CONVENTIONS tab.

Classification of hazardous ZONES:



Gas / Dust (G/D) and temperature Classes:

The G/D groups are classified according to IIA, IIB and IIC (see examples below). Depending on use, the T1 to T6 motor temperature class must be correctly selected. T1 to T6 temperature classes correspond to the maximum permissible surface temperatures. We remind you that the maximum permissible surface temperature must always be lower than the self-ignition point (ignition temperature) of the G/D elements.

	G/D GROUP	IGNITION TEMP.	TEMP. CLASS	
Ammonia	IIA	630°C	T1	
Hydrogen	IIC	560°C	T1	
Methane	IIA	537°C	T1	
Toluene	IIA	535°C	T1	
Grain (dust cloud)	IIIB	510°C		
Sugar (dust cloud)	IIIB	490°C		
Flour (dust cloud)	IIIB	490°C		
Ethylene Oxide	IIB	440°C	T2	
Ethylene	IIB	425°C	T2	
Coal (dust cloud)	IIIC	380°C		
Butane	IIA	365°C	T2	
Acetylene	IIC	300°C	T2	
Petroleum	IIA	247°C	T3	
Hexane	IIA	233°C	T3	
Kerosene	IIA	210°C	T3	
Diesel	IIA	200°C	T3	
Diethyl Ether	IIB	160°C	T4	
Carbon Disulphide	IIC	95°C	T5	

Gas / Steam	Description
IIA	Butene, Petrol, Propane, Ammonia
IIB	Ethylene, Diethyl Ether
IIC	Hydrogen, Acetylene, Carbon Disulphide

Type of dust	Description
IIB	Non-conductive:
	- Flour
	- Cereal
IIC	- Sugar
	Conductive:
	- Metal dust
	- Coal dust



AXUS RANGE – ATEX AXIAL FANS: GROUP II / ZONES 1&2

INERIS certification

Our impellers, with blades in spark-proof materials, composite polyamide or aluminium depending on required performances, speeds and specifications, and aluminium alloy hubs, are defined and made to order.

Optimizing the blades' angle and quantity provides the best energy efficiency and the most suitable power for your need.

To achieve the shortest lead times for our customers, we provide the largest possible motor power range and have access to multiple supply sources.

The use of mainly foot-mounted motors (B3) facilitates use in many configurations and makes any modification or maintenance requirements easy to satisfy.



Appareil non électrique destiné à être utilisé en atmosphères explosives
Non electrical equipment intended for use in potentially explosive atmospheres
Nicht-elektrisches Gerät zur Verwendung in explosionsgefährdeten Bereichen

Directive 2014/34/UE
Directive 2014/34/EU / Richtlinie 2014/34/EU

ACCUSÉ DE RECEPTION D'UN DOSSIER TECHNIQUE ACKNOWLEDGE RECEIPT OF TECHNICAL DOCUMENTATION EMPFANGSBESTÄTIGUNG EINES TECHNISCHEN UNTERLAGEN		
Appareil / Equipment / Gerät : Ventilateur de type hélicoides / Helicoid Fan / Axialventilator		
Type(s) / Typen(s) / Typ(en) : DC-DL-DF-DLF-DP-DA-ATTM-ATTV		
Marquage / Marking / Kennzeichnung : II 2 G, II 2 D, II 2 GD		
Dépositaire / Applicant / Antragsteller : AREM SAS Z.I. Les Aisières F- 45500 ST BRISSON/LOIRE		
L'INERIS, organisme notifié et identifié sous le numéro 0080, conformément aux articles 17 et 21 de la Directive du Conseil 2014/34/UE du 26 février 2014, accuse réception du dossier conformément à la procédure décrite au chapitre 3, article 13 1) b) ii) de la Directive.	INERIS, notified body and identified under number 0080, in accordance with articles 17 and 21 of Council Directive 2014/34/EU of the 26 February 2014, acknowledges receipt of file according to the procedure described chapter 3, article 13 1) b) ii) of the Directive.	INERIS, benannte Stelle Nr. 0080 nach Artikeln 17 und 21 der Richtlinie des Rates der Europäischen Gemeinschaften 2014/34/EU vom 26. Februar 2014, bestätigt den Erhalt der Unterlagen gemäß Eingang Kapitel 3 Artikel 13 1) b) ii) von der Richtlinie beschrieben wurde.
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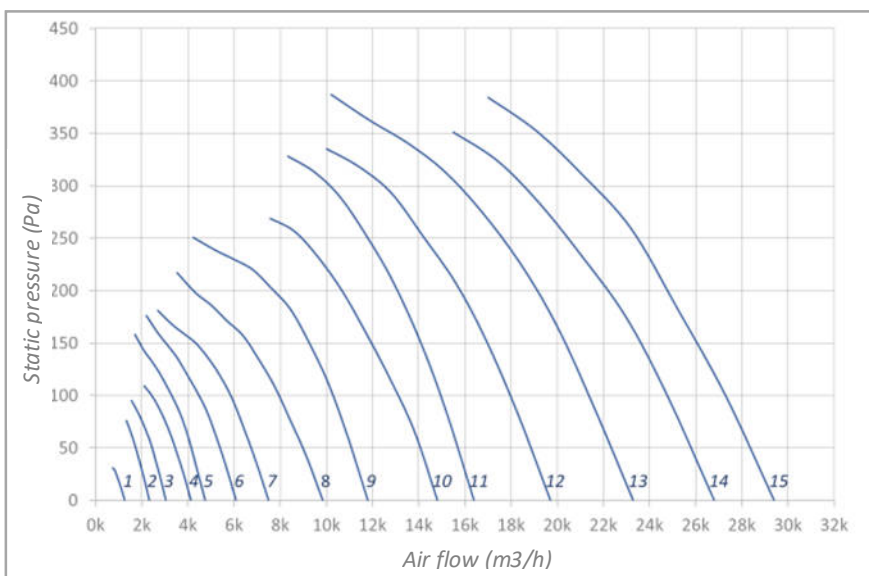
This catalog presents our most common solutions, but we can also meet specific configurations.

For any particular need, in terms of performances and operating specificities, our special assemblies may be the solution you need. Do not hesitate to contact us.

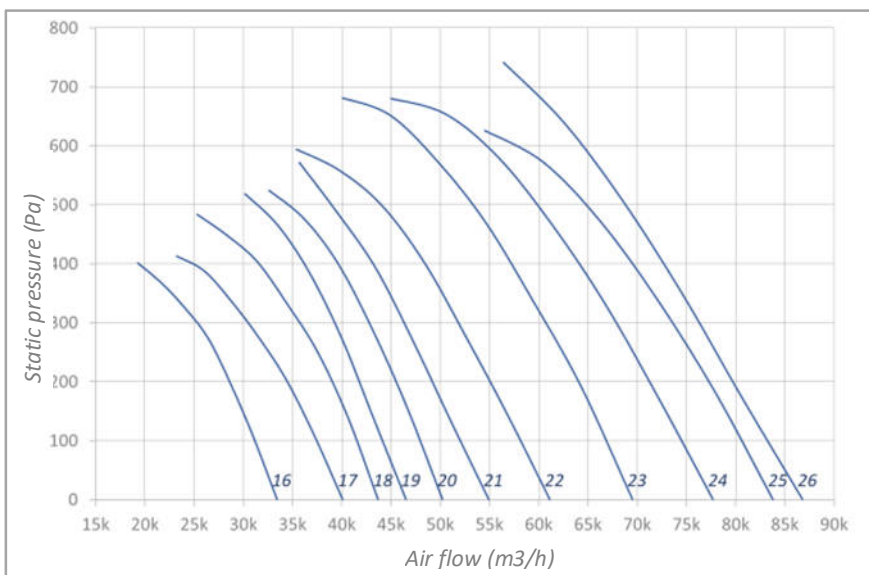


AXUS PERFORMANCES: 4 Poles (1500 rpm)

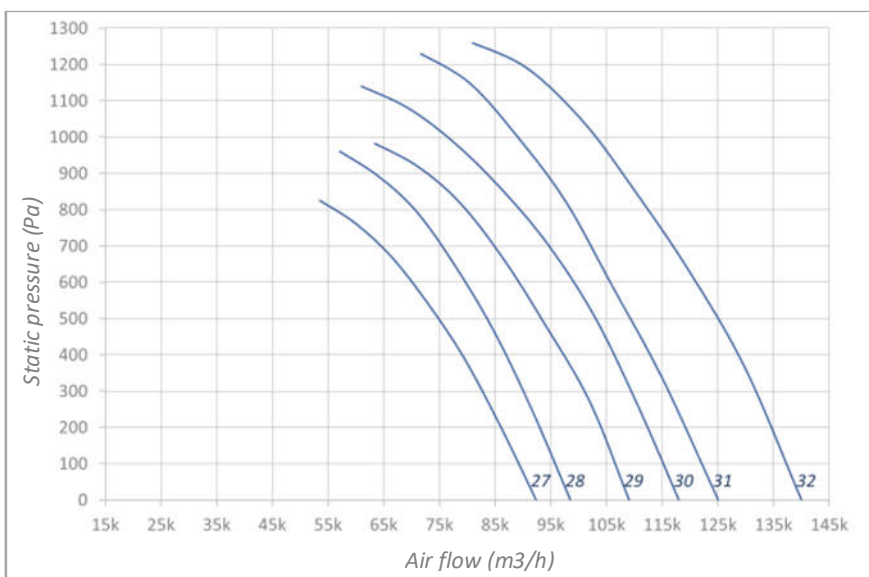
Common operating range



Curve No.	Ø mm	Power kW	Current A
1	250	0.09	0.3
2	315	0.09	0.3
3	350	0.09	0.3
4	400	0.12	0.4
5	450	0.18	0.5
6	500	0.25	1.0
7	500	0.37	1.3
8	560	0.55	1.5
9	560	0.75	1.9
10	630	1.10	2.8
11	630	1.50	3.8
12	630	2.20	4.8
13	700	2.20	4.8
14	700	3.00	6.6
15	800	3.00	6.6



Curve No.	Ø mm	Power kW	Current A
16	800	4.00	7.9
17	800	5.50	11.4
18	800	7.50	14.8
19	900	7.50	14.8
20	900	9.50	17.8
21	900	11.00	21.3
22	900	15.00	28.0
23	1000	15.00	28.0
24	1000	18.50	38.3
25	1000	22.00	43.5
26	1000	30.00	52.6



Curve No.	Ø mm	Power kW	Current A
27	1120	22.00	39.7
28	1120	30.00	52.6
29	1120	37.00	65.4
30	1250	30.00	52.6
31	1250	45.00	79.3
32	1250	55.00	95.4

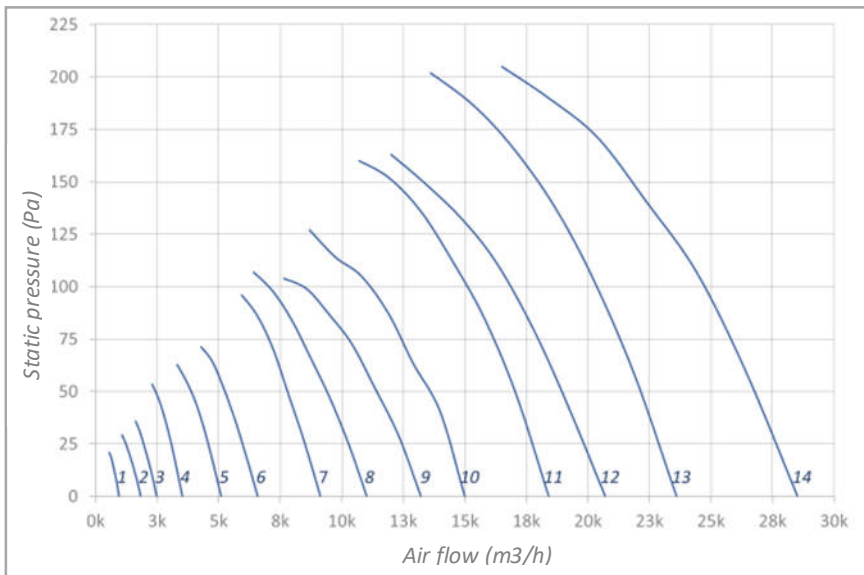
Notes:

The current is indicated for a 400V/50Hz electricity network, variable depending on the motorization.
The curves represent just a very small part of air flow possibilities.

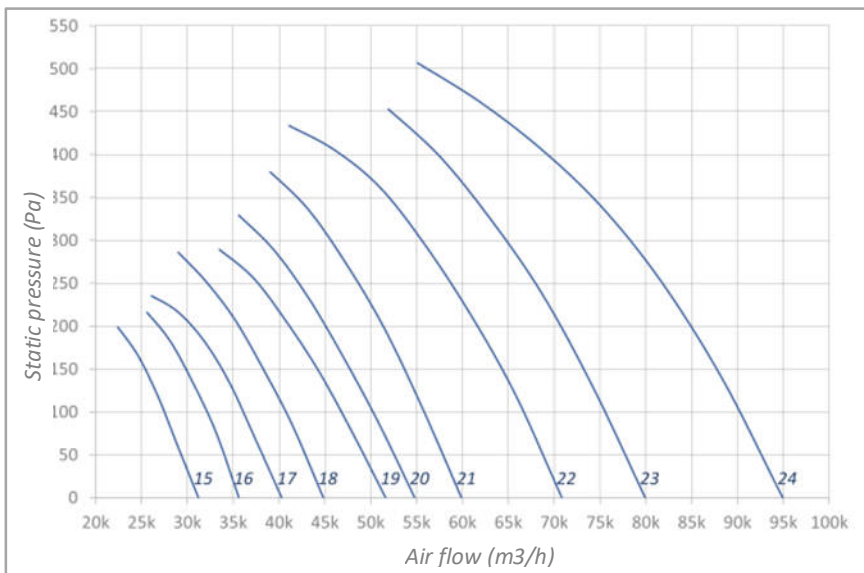


AXUS PERFORMANCES: 6 Poles (1000 rpm)

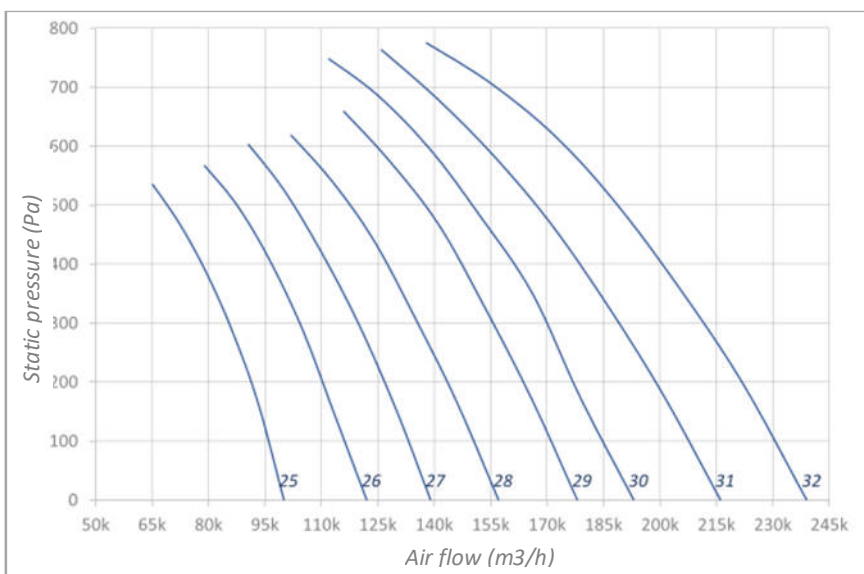
Common operating range



Curve No.	Ø mm	Power kW	Current A
1	250	0.09	0.5
2	315	0.09	0.5
3	350	0.09	0.5
4	400	0.12	0.6
5	450	0.18	0.7
6	500	0.25	0.8
7	560	0.37	1.4
8	630	0.37	1.4
9	630	0.55	1.8
10	630	0.75	2.1
11	710	1.10	3.2
12	800	1.10	3.2
13	800	1.50	3.9
14	800	2.20	5.2



Curve No.	Ø mm	Power kW	Current A
15	900	2.20	5.2
16	900	3.00	7.3
17	900	4.00	9.1
18	1000	4.00	9.1
19	1000	5.50	12.7
20	1000	7.50	16.9
21	1120	9.20	19.1
22	1120	11.00	22.5
23	1120	15.00	30.7
24	1250	18.50	37.8



Curve No.	Ø mm	Power kW	Current A
25	1250	22.00	43.1
26	1400	22.00	43.1
27	1400	30.00	53.1
28	1600	30.00	53.1
29	1600	37.00	67.3
30	1600	45.00	83.5
31	1800	45.00	83.5
32	1800	55.00	99.3

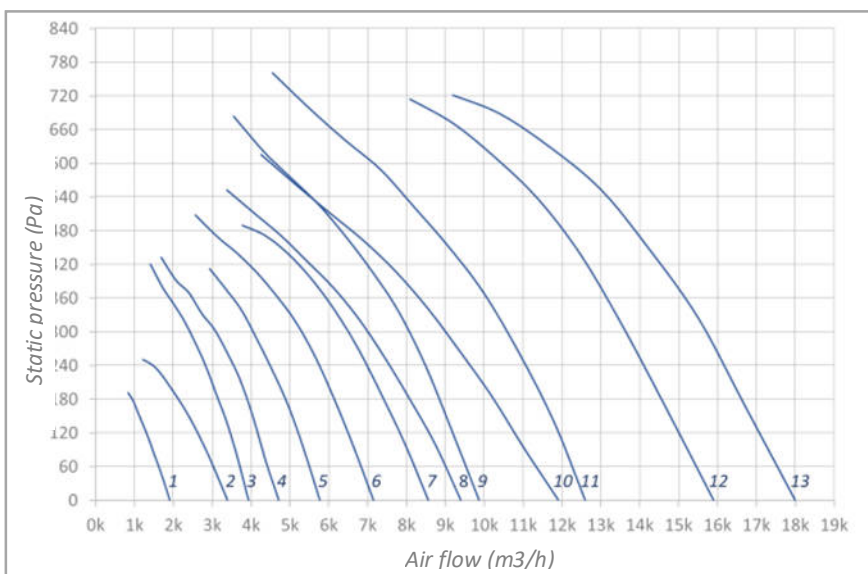
Notes:

The current is indicated for a 400V/50Hz electricity network, variable depending on the motorization.
The curves represent just a very small part of air flow possibilities.

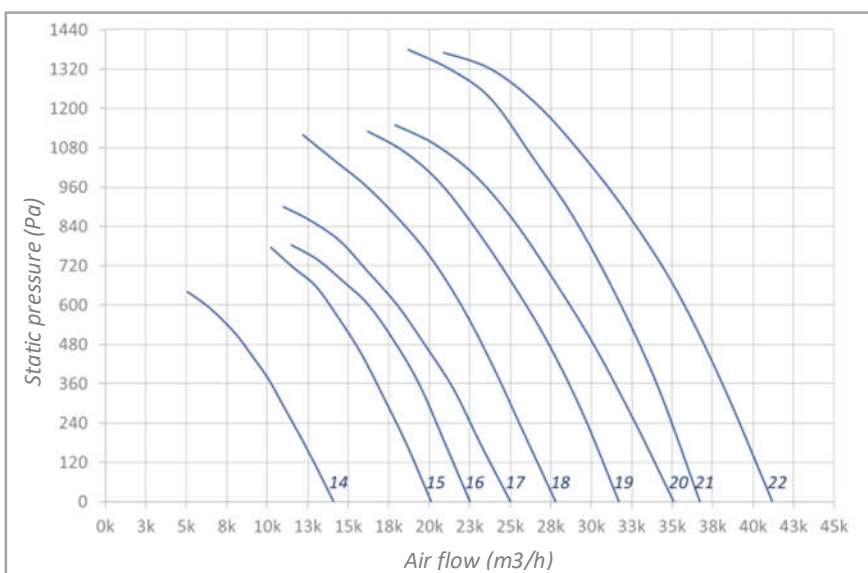


AXUS PERFORMANCES: 2 Poles (3000 rpm)

Common operating range



Curve No.	Ø mm	Power kW	Current A
1	250	0.12	0.4
2	315	0.18	0.5
3	350	0.37	0.9
4	350	0.55	1.3
5	350	0.75	1.6
6	400	0.75	1.6
7	400	1.10	2.3
8	450	1.10	2.3
9	450	1.50	3.4
10	500	1.50	3.4
11	500	2.20	4.8
12	500	3.00	6.5
13	500	4.00	7.3



Curve No.	Ø mm	Power kW	Current A
14	560	2.20	4.8
15	560	4.00	7.3
16	560	5.50	9.8
17	630	5.50	9.8
18	630	7.50	13.4
19	630	9.20	16.1
20	630	11.00	18.9
21	630	15.00	26.2
22	630	18.50	31.8

Notes:

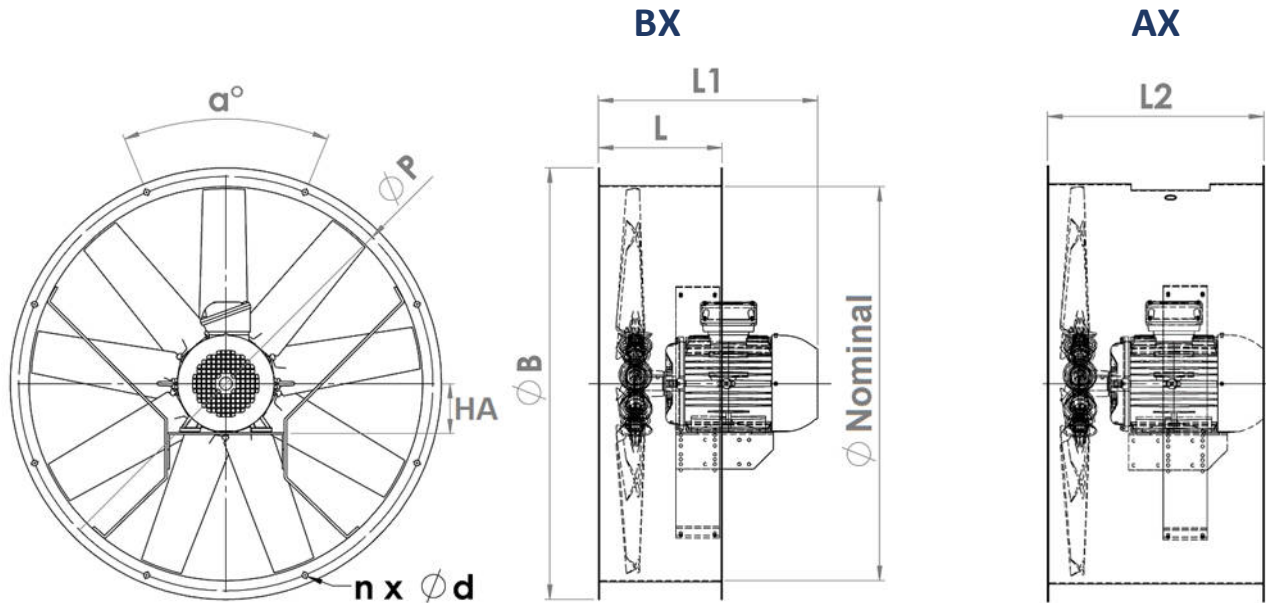
The current is indicated for a 400V/50Hz electricity network, variable depending on the motorization.
The curves represent just a very small part of air flow possibilities.





AX / BX DIMENSIONS

AX (long casing) - BX (short casing)



Nominal \varnothing mm	HA mm	L mm	L2 mm	B mm	n	α °	d mm	P mm	AX weight* kg	BX weight* kg
250	56-71	235	350	330	6	60	9	300	13	11
315	56-80	254	350	385	6	60	12	351	24	22
350	63-90	254	350	425	6	60	12	390	29	27
400	63-100	254	440	470	6	60	12	440	41	37
450	63-112	254	440	520	6	60	12	490	58	54
500	63-112	254	440	572	6	60	12	540	59	55
	132	425	600						98	92
560	71-112	254	440	626	6	60	12	594	62	57
	132	425	600						101	95
630	63-112	254	440	704	6	60	12	670	65	59
	132	425	600						105	99
	160	425	675						139	133
710	80-112	254	440	780	6	60	12	744	69	62
	132-160	425	675						142	135
800	80-112	254	440	885	8	45	12	850	72	65
	132-160	425	675						177	163
	180	425	800						184	170
900	90-160	425	675	990	12	30	15	954	188	171
	180	425	800						231	205
1000	90-160	425	675	1090	12	30	15	1056	206	187
	180	425	800						250	222
	200	600	865						320	294
1120	100-180	465	800	1230	12	30	15	1190	266	237
	200-225	665	1010						524	485
	250-280	800	1010						689	639
1250	100-180	465	800	1375	12	30	15	1320	308	265
	200-225	665	1010						549	506
	250-280	800	1010						950	917
1400	132-180	650	900	1530	12	30	15	1480	348	326
	200-225	650	1010						586	535
	250-280	800	1010						994	957
1600	132-180	650	900	1730	16	22.5	15	1660	398	350
	200-225	650	1010						616	559
	250-280	650	1010						1035	993
1800	160-225	685	1010	1930	24	15	15	1880	560	607
	250-280	800	1010						1089	1042

Notes:

L1 is variable depending on the motorization.

The flange drill holes are AREM type by default. Specify when ordering if your requirement is for the Eurovent standard.

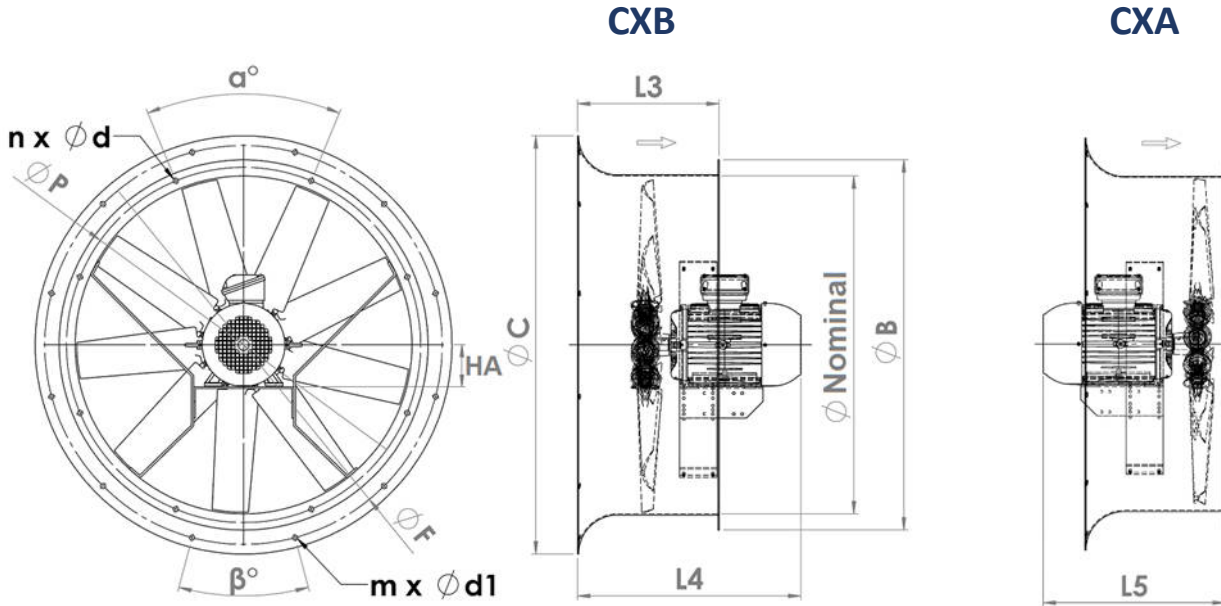
*Weights are provided for information only and include the motor weights of the maximum power (without ancillaries).

For diameters greater than 1800mm, contact us.



CX DIMENSIONS

CX (casing with inlet bellmouth)



Nominal \varnothing mm	HA mm	L3 mm	B mm	n -	α $^{\circ}$	d mm	P mm	C mm	m -	β $^{\circ}$	d1 mm	F mm	CX weight* kg
250	56-71	-	330	6	60	9	300	-	-	-	-	-	-
315	56-80	-	385	6	60	12	351	-	-	-	-	-	-
350	63-90	-	425	6	60	12	390	-	-	-	-	-	-
400	63-100	330	470	6	60	12	440	530	6	60	12	490	47
450	63-112	330	520	6	60	12	490	580	6	60	12	540	60
500	63-112 132	330 425	572	6	60	12	540	685	6	60	12	642	61 101
560	71-112 132	330 425	626	6	60	12	594	715	6	60	12	670	65 105
630	63-112 132 160	330 500 500	704	6	60	12	670	790	6	60	12	744	71 113 147
710	80-112 132-160	330 500	780	6	60	12	744	900	8	45	12	850	77 150
800	80-112 132-160 180	340 565 565	885	8	45	12	850	1000	12	30	12	954	80 185 195
900	90-160 180	565 565	990	12	30	15	954	1100	12	30	15	1056	198 241
1000	90-160 180 200	565 565 675	1090	12	30	15	1056	1230	12	30	15	1190	216 255 340
1120	100-180 200-225 250-280	565 750 1110	1230	12	30	15	1190	1360	12	30	15	1320	286 554 719
1250	100-180 200-225 250-280	565 750 1110	1375	12	30	15	1320	1520	12	30	15	1480	338 579 980
1400	132-180 200-225 250-280	750 750 1110	1530	12	30	15	1480	1600	16	22.5	15	1560	388 626 1034
1600	132-180 200-225 250-280	750 750 1110	1730	16	22.5	15	1660	1810	16	22.5	15	1756	438 656 1075
1800	160-225 250-280	750 1110	1930	24	15	15	1880	2030	24	15	18	1980	605 1139

Notes:

L4 and L5 are variable depending on the motorization.

The flange drill holes are AREM type by default. Specify when ordering if your requirement is for the Eurovent standard.

*Weights are provided for information only and include the motor weights of the maximum power (without ancillaries).

For diameters greater than 1800mm, contact us.



TH / TV – ROOF FAN WITH H. / V. DISCHARGE

Roof mounting

This range is available from diameter 315 to 1250. The TH and TV ranges are perfect for roof installations. They can extract large volumes of particle-free fluids. The manufacturing characteristics of these products are comparable with axial fans in the same operating class. For installation in an area with particular temperature or climate conditions (snow, wind, etc.), please ask us. This solution (TV) is particularly suitable for environmental constraints with an upwards discharge of any VOC (Volatile Organic Compounds) that may be contained in the fluids. **For optimal installation, we recommend the option with connection to a switch or external junction box for these fans.**

Standard construction:

- Fan in pre-galvanized steel
- Standard fastening base plate. Specific dimensions and drill holes upon request.
- Protective aluminium or steel roof cowl for TH and in pre-galvanized steel for TV.

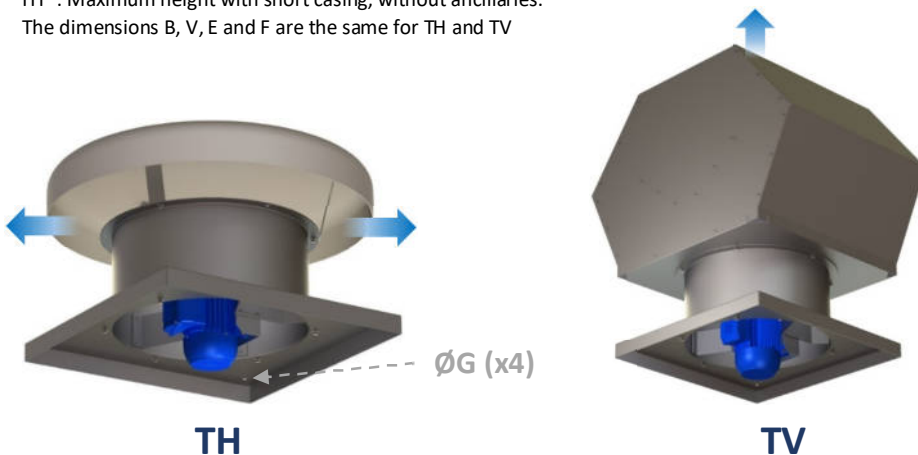
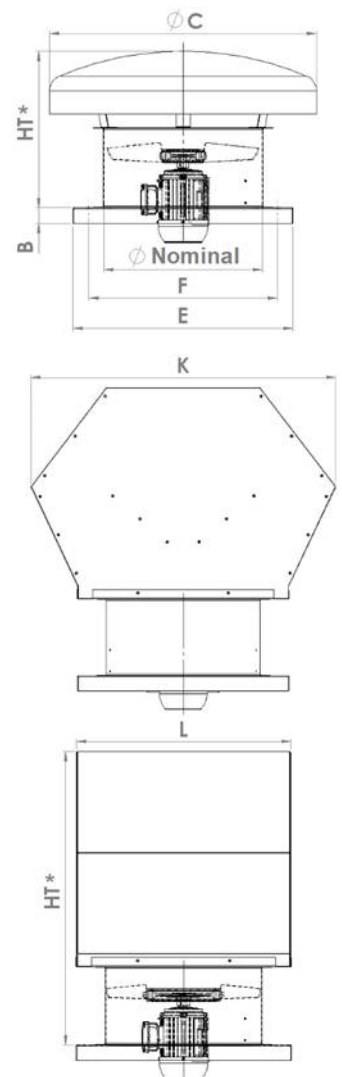
Option:

- Aluminium
- Hot-dip galvanized steel or 304L / 316L stainless steel
- Exterior epoxy paint finish
- Ancillaries: outlet backdraught damper, silencer at the inlet, deflectors, etc.

Nominal \varnothing mm	B mm	$\varnothing C$ mm	E mm	F mm	$\varnothing G$ mm	K mm	L mm	HT* TH mm	HT* TV mm
315	50	650	500	400	13	800	500	450	820
350	50	650	500	400	13	800	500	450	820
400	50	650	600	500	13	800	600	450	860
450	50	800	600	500	13	800	600	470	860
500	50	800	700	600	13	1000	700	660	1120
560	50	800	700	600	13	1000	700	660	1120
630	50	1200	800	700	13	1100	800	830	1180
710	50	1200	900	800	13	1100	800	830	1180
800	50	1500	1000	900	13	1300	1100	920	1400
900	50	1500	1100	1000	13	1300	1100	880	1230
1000	65	1500	1200	1100	13	1400	1200	1050	1460
1120	65	2000	1370	1270	13	1700	1400	1340	1550
1250	65	2000	1370	1270	13	1700	1400	1320	1590

Notes:

HT*: Maximum height with short casing, without ancillaries.
The dimensions B, V, E and F are the same for TH and TV



Complete sealing cannot, however, be guaranteed in the event of rain or unusual climate events and the installation must be carried out in compliance with best practice (point to be defined for all roof fans, notion of maximum slope).



EXPLOSIVE ATMOSPHERES – CENTRIFUGALS



DESCRIPTION

We have a range from diameter 250mm to 1400mm, from a few hundred m³/h to 250,000m³/h, with motors with 2, 4 and 6 poles, 1 or 2 speeds. Our fans might also be suitable for use in geographic areas with specific electricity networks, i.e. 60 Hz.

Other motor speeds are available on request.



APPLICATION

ATEX-certified fans are designed for use in zones classified as hazardous transporting inflammable and combustible substances.

Air extraction in explosive atmospheres:

- Group II
- Zone 1-2
- Gas-Dust



FLUID TEMPERATURE

The standard operating temperatures are from -20°C to +40°C with a class F motor.

Many other solutions covered by our certification can be proposed by our sales team on request (materials, dust, ignition temperature, etc.)



CONSTRUCTION

Our fans, which comply with **ATEX Directive 2014/34/EU**, are made in our factory with pre-galvanized steel or Fe360 steel as standard. To meet your particular requirements, we can manufacture to order:

- 304L or 316L stainless steel
- Hot-dip galvanized steel
- Surface treatment with epoxy paint

Available in direct coupling or belt-driven with forwards or backwards inclined blades and with foot-mounted or flange-mounted motors depending on your requirement.

Reminder: All conventional and normative elements are presented in the **STANDARDS-RULES-CONVENTIONS** tab. All ancillaries are presented in the **ANCILLARIES** tab at the end of the catalog. Please contact the sales team for your specific requirements.



- ✓ *Single-inlet*
- ✓ *Double-inlet*
- ✓ *Plastic impeller*
- ✓ *Roof fan: TCH -TCV - TCO - TVCP*



ANCILLARIES

In line with your requirements, we have safety guards, support feet, rigid coupling flanges, outlet backdraught dampers, on-off switch connectors, etc., to simplify your installation. See **ANCILLARIES** tab for more information.



OPTION

We can wire motors, switch connectors, make special productions, etc. and study your requirements to meet your specifications and constraints.

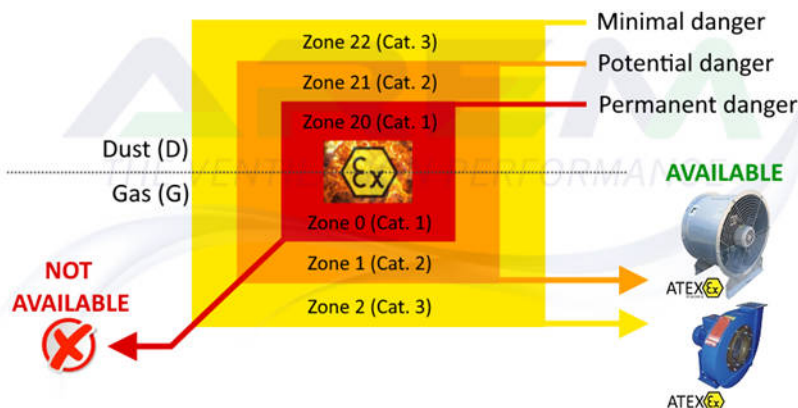


R / G / V / Z SERIES – BACKWARD CURVED BLADES

Common operating range

Series R, G, V, Z are certified to work in hazardous environments. **The definition of Zone and temperature Class is the user's responsibility; AREM shall not be held responsible for an inaccurate definition. See STANDARDS – RULES – CONVENTIONS tab.**

Classification of hazardous ZONES:

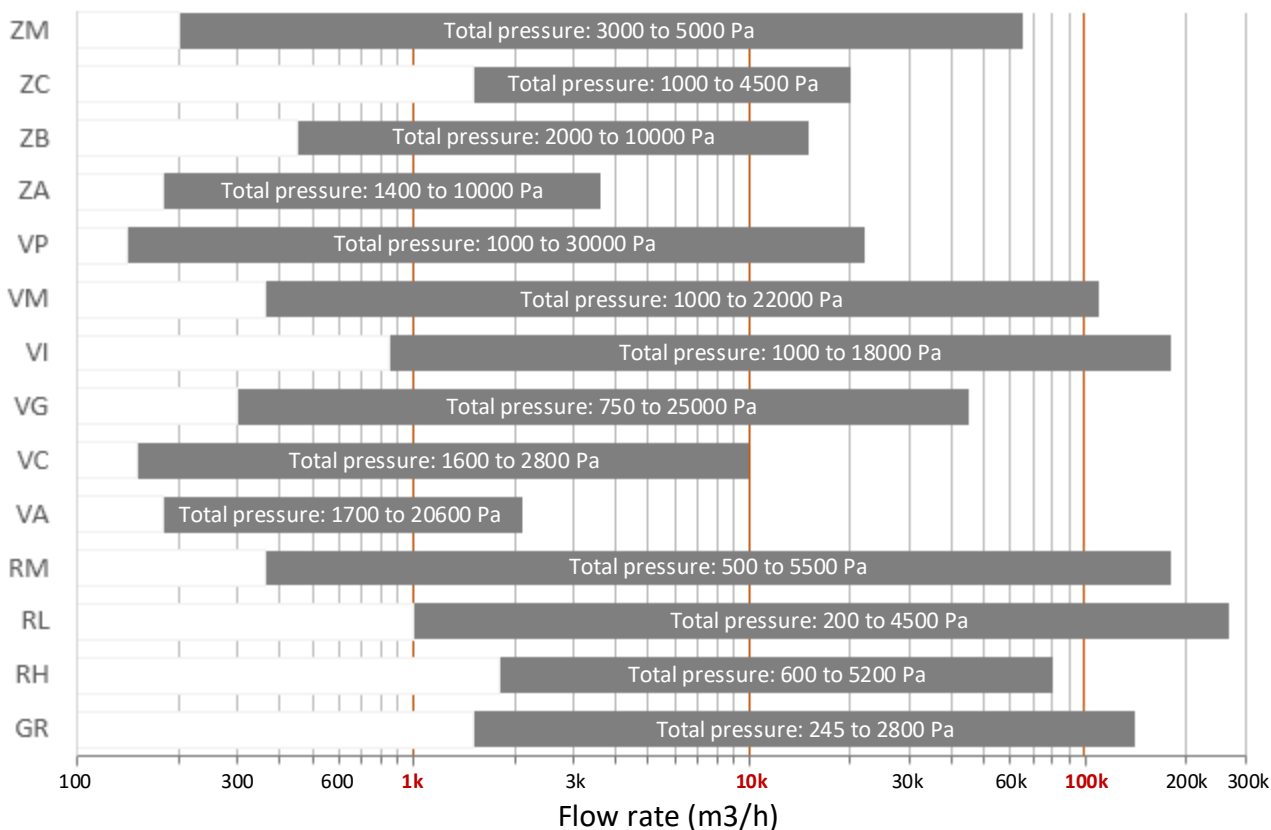


The impeller's direction of rotation and the position of the motor are restrictive points that are difficult to modify after installation. These parameters generally have little impact on manufacturing costs (with the exception of frame-mounted operation or specific belt-drives), but must be correctly defined when the order is made.

Series G, R: low - medium pressure



Series V, Z: high pressure



See details in the **INDUSTRIAL VENTILATION tab** of the catalog.

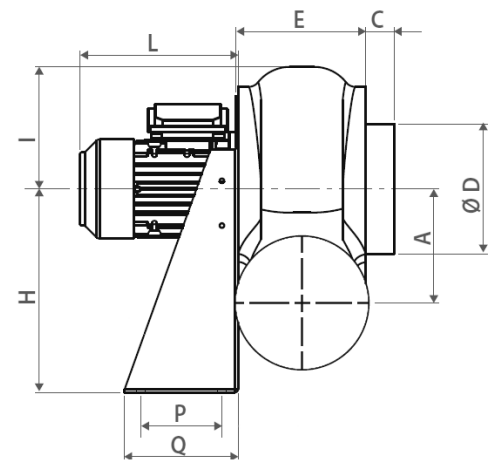
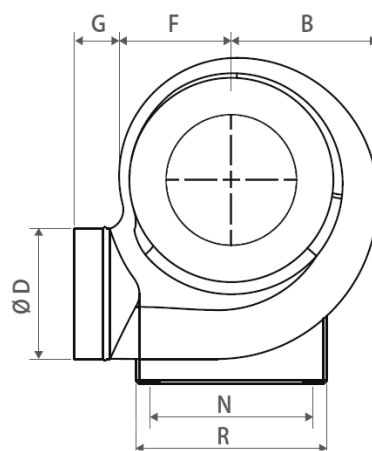


CP – BACKWARD CURVED BLADES

Standard range with ATEX plastic housings

For acidic or corrosive atmospheres, we propose our CP range of plastic fans. The characteristics of the standard range are:

- Motor speed: available in 2, 4 and 6 poles
- Flow rate: up to 6600m³/h
- Static pressure: up to 1600Pa
- Housing: plastic molding (PE, anti-static polyethylene)
- Impeller: in plastic material (PP, polypropylene)
- Motor support base: structure in painted steel (epoxy coating)
- Orientation: RD0 to RD315 and LG0 to LG315 in 45° increments

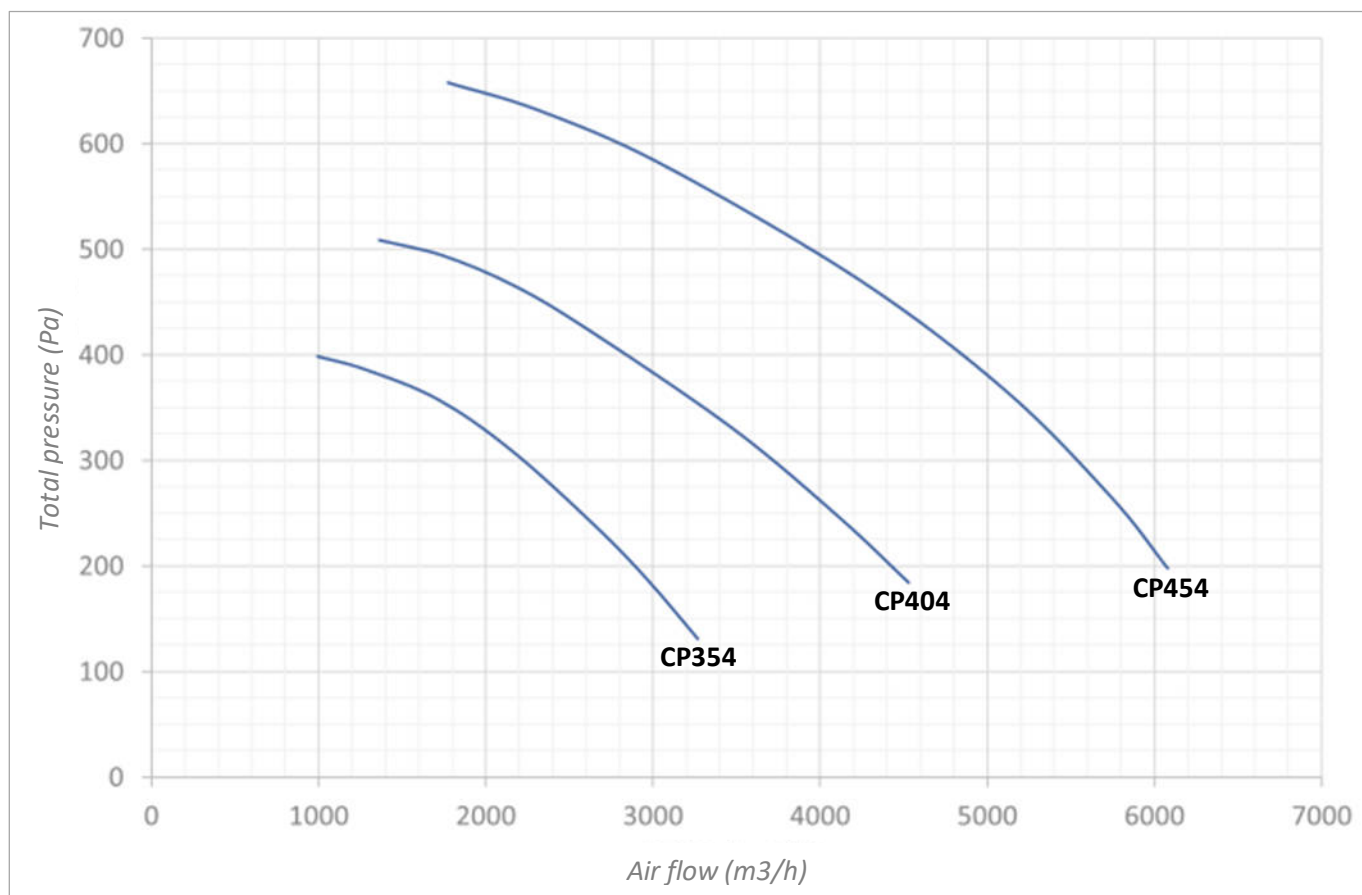
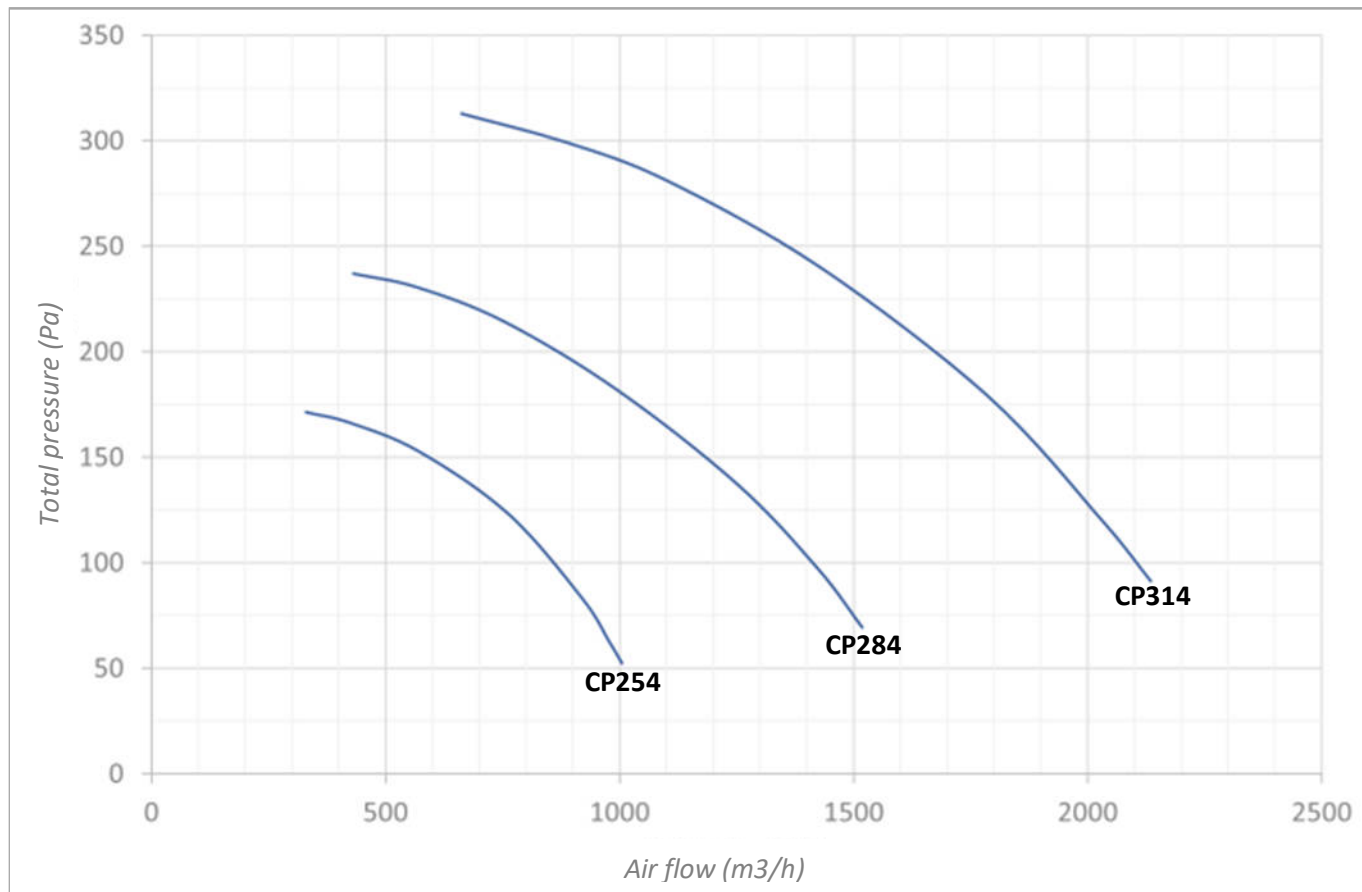


CP...	V. rpm	P. kW	LwA dBA	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	N mm	P mm	Q mm	R mm	Weight kg
CP202	2760	0.18	62	140	180	35	160	160	138	55	250	150	195	200	100	140	235	17
CP254	1370	0.12	54	173	228	35	200	185	170	55	310	190	190	255	100	140	290	18
CP252	2800	0.37	71	173	228	35	200	185	170	55	310	190	220	255	100	140	290	24
CP284	1370	0.18	55	208	255	40	225	195	190	70	350	210	190	280	120	190	316	23
CP282	2850	0.75	75	208	255	40	225	195	190	70	350	210	240	280	120	190	316	33
CP314	1400	0.25	59	240	280	40	250	200	210	70	410	230	220	320	150	230	355	30
CP312	2850	1.50	79	240	280	40	250	200	210	70	410	230	290	320	150	230	355	45
CP354	1400	0.37	61	260	312	40	280	237	230	55	445	270	220	355	150	230	390	34
CP352	2870	2.20	80	260	312	40	280	237	230	55	445	270	290	355	150	230	390	51
CP404	1420	0.55	69	290	356	40	315	252	264	55	495	295	240	325	170	250	365	47
CP406	910	0.25	56	290	356	40	315	252	264	55	495	295	220	325	170	250	365	41
CP454	1440	1.10	70	324	400	40	355	287	295	55	550	330	290	370	170	250	410	61
CP456	930	0.37	59	324	400	40	355	287	295	55	550	330	240	370	170	250	410	51



CP..4 PERFORMANCES: 4 Poles (1500 rpm)

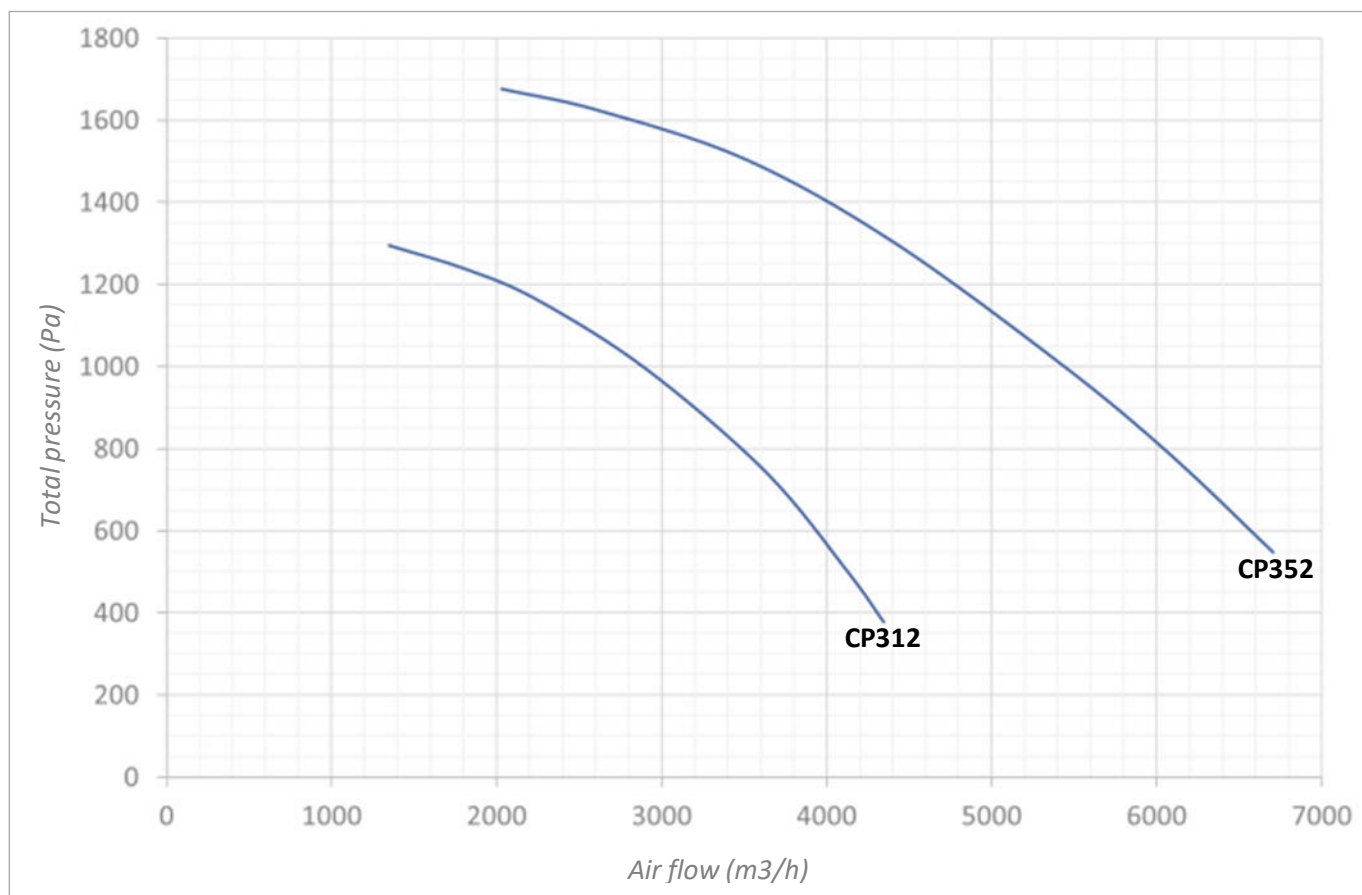
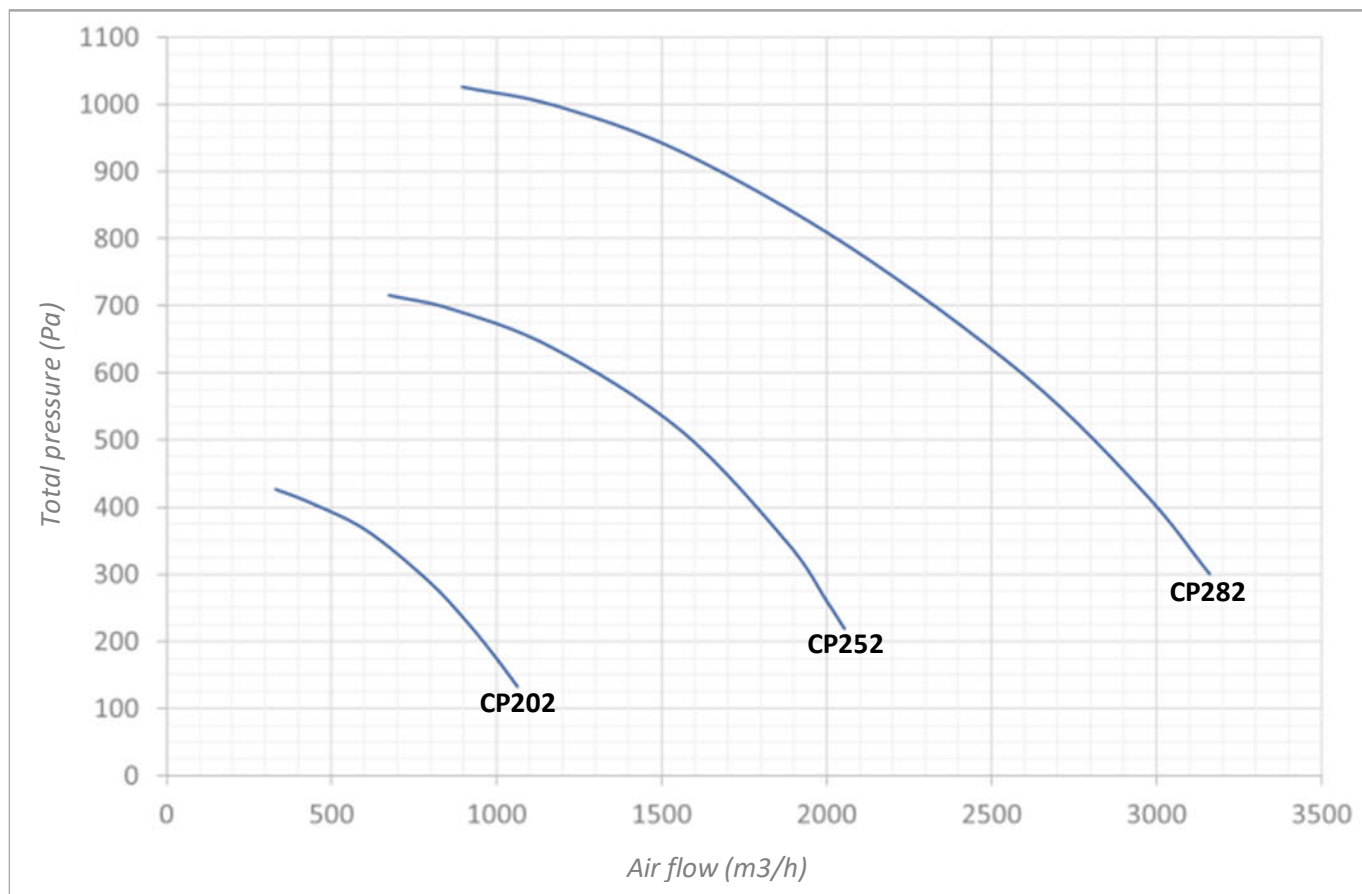
Common operating range





CP..2 PERFORMANCES: 2 Poles (3000 rpm)

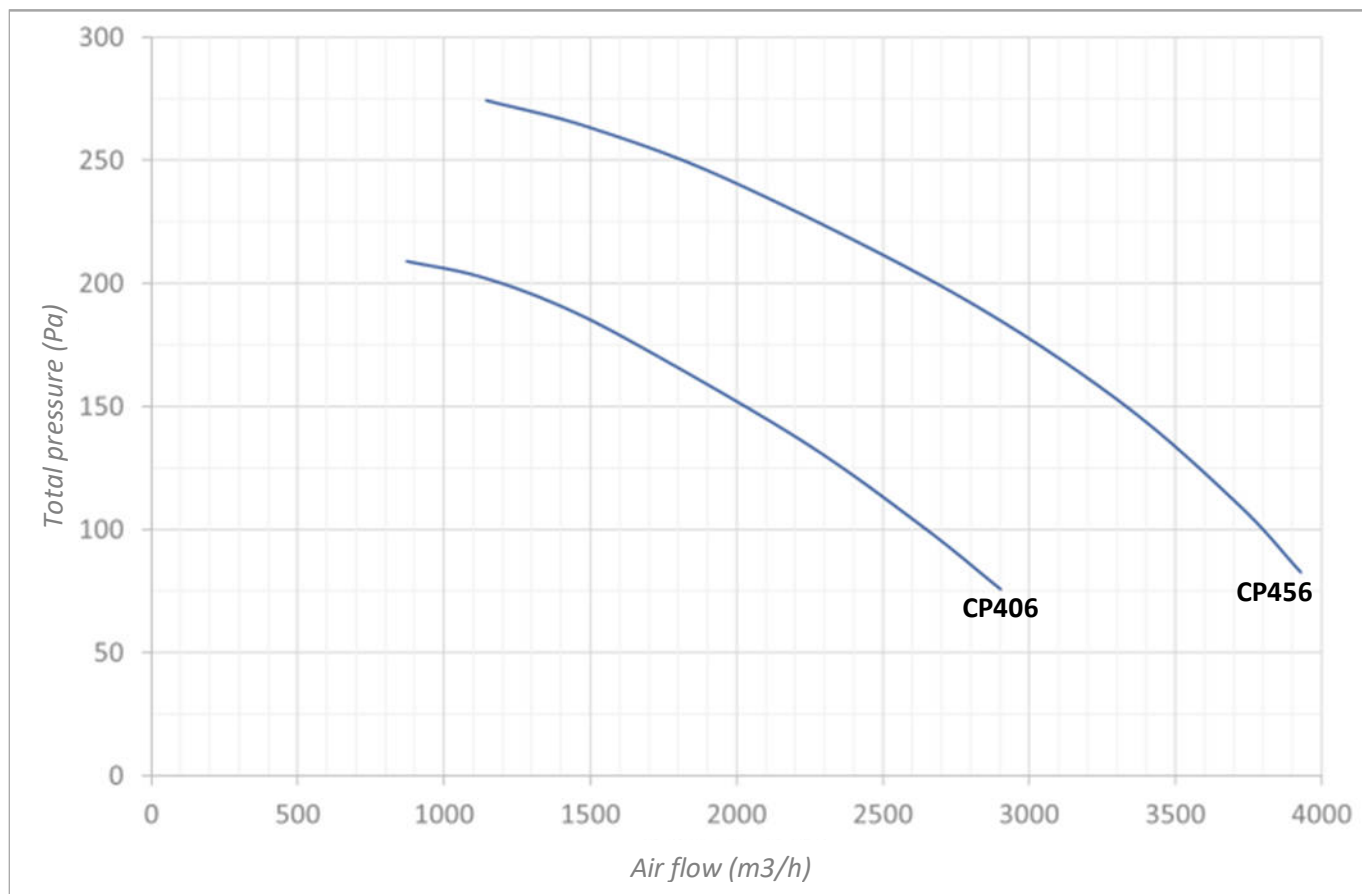
Common operating range





CP..6 PERFORMANCES: 6 Poles (1000 rpm)

Common operating range



Available ancillaries:



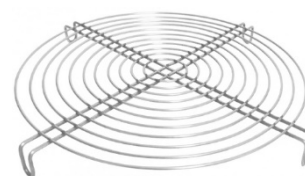
Manual backdraught damper



Rain and anti-bird cap



Protective cover



Safety guard



Flexible coupling flange



Circular reducer



Bend



Silencer

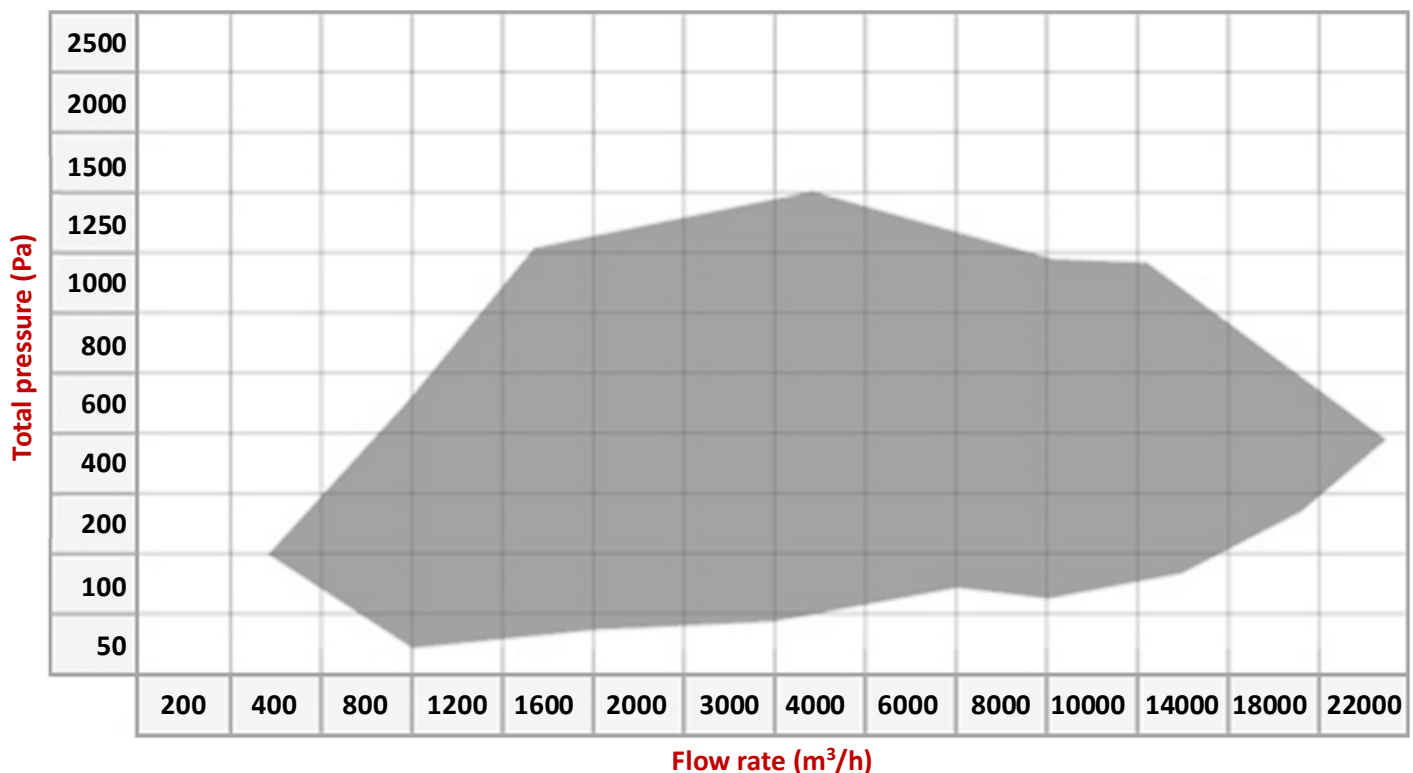


TCO – ROOF FAN WITH HORIZONTAL DISCHARGE

Standard range with plastic housing

Roof fan with horizontal discharge made from plastic, fitted with high-performance backwards inclined blades which make it very energy-efficient. The roof fans in the TCO series cover a range of flow rates for the ventilation of chemical product storage areas. **For optimal installation, we recommend the option with connection to a switch or external junction box for these fans.**

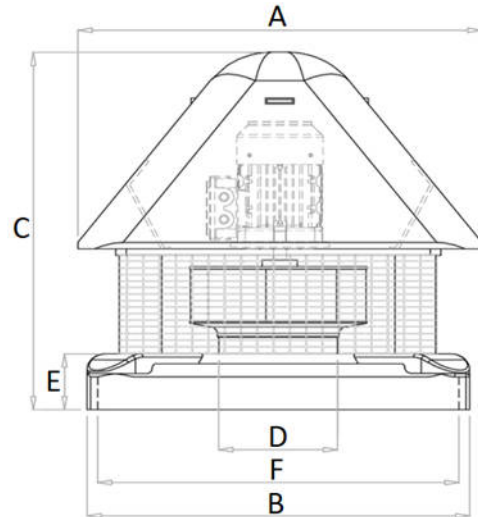
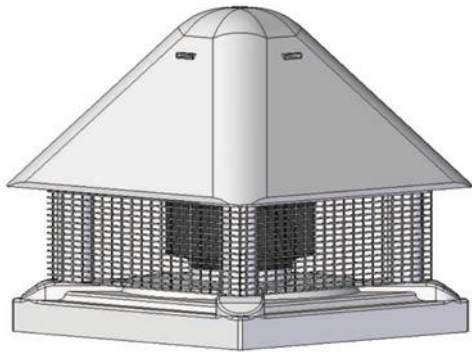
- Motor polarity: available in 2, 4 and 6 poles
- Housing and cowl in anti-static polyethylene (PE-el)
- Polypropylene (PP) impeller
- Stainless steel safety guard
- Flow rate: from 400 to 22,000m³/h
- Static pressure: up to 1250Pa





TCO DIMENSIONS

General dimensions



TCO ...	HA mm	P. kW	V. rpm	A mm	B mm	C mm	D mm	E mm	F mm	Weight* mm
TCO 204	63	0.12	1450	570	540	550	125	85	330	16
TCO 202	63	0.18	2850	570	540	550	125	85	330	16
TCO 254	63	0.12	1450	570	540	580	160	85	500	17
TCO 252	71	0.37	2850	570	540	580	160	85	500	18
TCO 284	63	0.18	1450	570	540	600	180	85	500	17
TCO 282	80	0.75	2850	570	540	600	180	85	500	19
TCO 316	71	0.18	930	660	540	610	200	85	500	20
TCO 314	71	0.25	1450	660	540	610	200	85	500	22
TCO 312	90	1.50	2850	660	540	610	200	85	500	22
TCO 356	71	0.18	930	660	540	640	225	85	500	22
TCO 354	71	0.37	1450	660	540	640	225	85	500	22
TCO 352	90	2.20	2850	660	540	640	225	85	500	25
TCO 406	71	0.25	930	840	750	685	250	100	700	32
TCO 404	80	0.55	1450	840	750	685	250	100	700	32
TCO 456	80	0.37	930	840	750	710	280	100	700	37
TCO 454	90	1.10	1450	840	750	710	280	100	700	39
TCO 506	80	0.55	930	1000	750	850	300	80	710	93
TCO 504	100	2.20	1450	1000	750	850	300	80	710	102
TCO 566	90	1.10	930	1000	850	1000	340	80	810	108
TCO 564	112	4.00	1450	1000	850	1000	340	80	810	132
TCO 636	112	2.20	930	1200	950	1050	390	80	900	141
TCO 634	132	5.50	1450	1200	950	1050	390	80	900	169
TCO 716	132	4.00	930	1200	1050	1200	500	80	1000	184
TCO 714	160	11.00	1450	1200	1050	1200	500	80	1000	249
TCO 806	132	5.50	930	1200	1200	1300	570	80	1150	198
TCO 856	160	7.50	930	1200	1200	1500	600	80	1150	220

Notes:

*Weights are variable according to the motorization (without ancillaries).

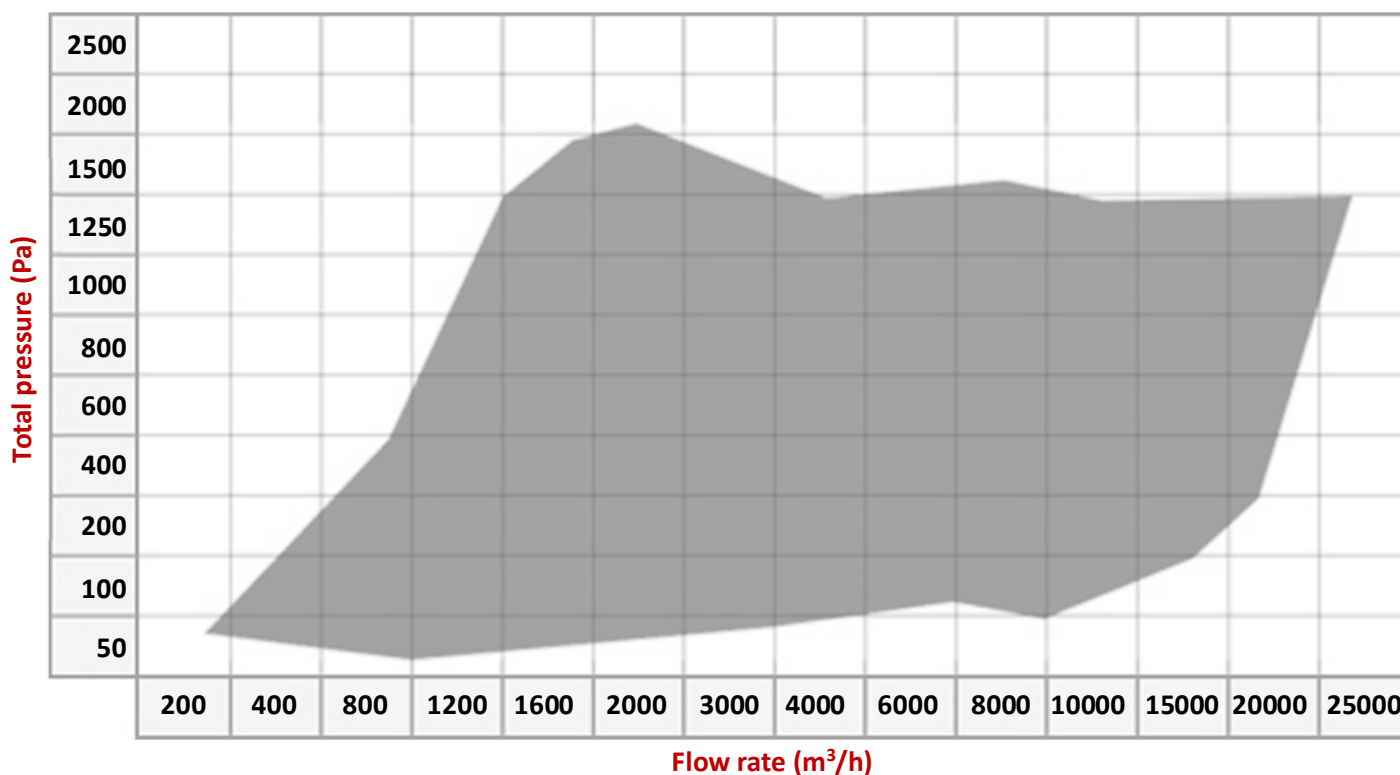
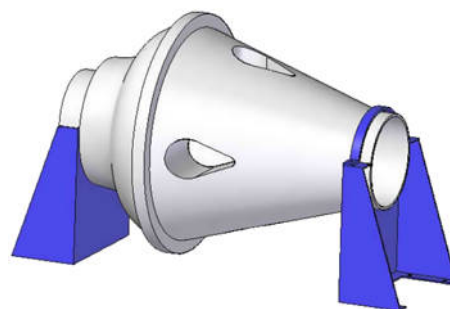


TCVP – ROOF FAN WITH VERTICAL DISCHARGE

Standard range with plastic housing

Roof fan with vertical discharge made from plastic, fitted with high-performance backwards inclined blades which make it very energy-efficient. The roof fans in the TCV-P series cover a range of flow rates dedicated to the ventilation of chemical product storage areas. **For optimal installation, we recommend the option with connection to a switch or external junction box for these fans.**

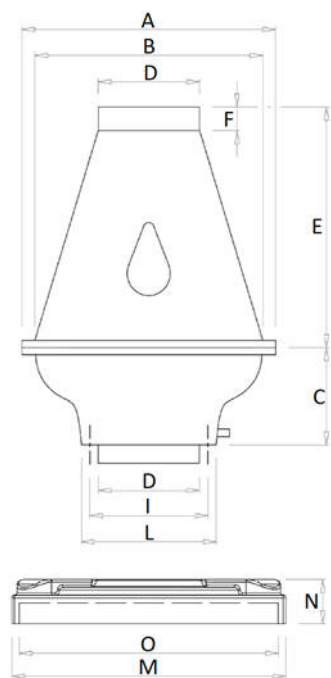
- Motor polarity: available in 2, 4 and 6 poles
- Housing and cowl in anti-static polyethylene (PE-el)
- Polypropylene (PP) impeller
- Flow rate: from 300 to 25000m³/h
- Static pressure: up to 1500Pa
- On request: In-line mounting for duct connections



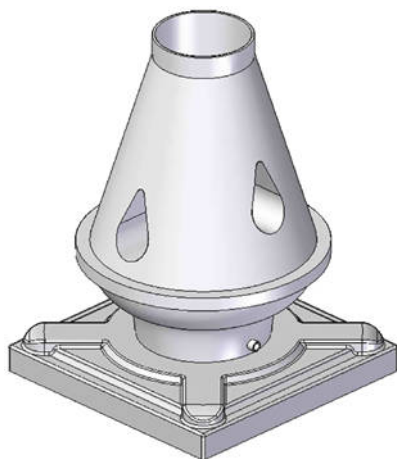


TCVP DIMENSIONS

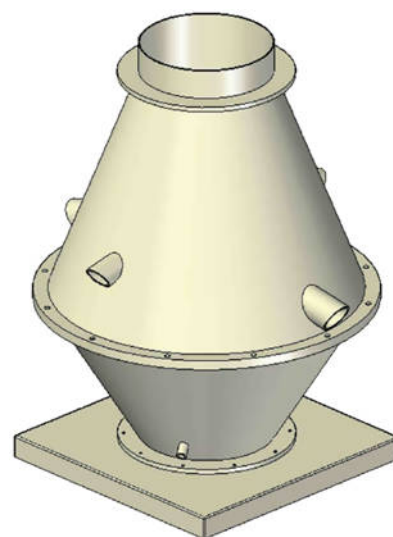
General dimensions



TCV 200 to 450



TCV 500 to 800



TCVP ...	HA mm	P. kW	V. rpm	A mm	B mm	C mm	D mm	E mm	F mm	I mm	L mm	M mm	N mm	O mm	Weight mm
TCVP 204	63	0.12	1450	400	350	145	160	420	40	200	240	540	80	490	10
TCVP 202	63	0.18	2850	400	350	145	160	420	40	200	240	540	80	490	10
TCVP 254	63	0.12	1450	500	450	185	200	460	50	230	265	540	80	490	13
TCVP 252	71	0.37	2850	500	450	185	200	460	50	230	265	540	80	490	13
TCVP 314	71	0.25	1450	600	560	240	280	600	50	325	365	540	80	490	26
TCVP 312	90	1.50	2850	600	560	240	280	600	50	325	365	540	80	490	33
TCVP 356	71	0.18	930	600	560	240	280	600	50	325	365	540	80	490	26
TCVP 354	71	0.37	1450	600	560	240	280	600	50	325	365	540	80	490	26
TCVP 352	90	2.20	2850	600	560	240	280	600	50	325	365	540	80	490	35
TCVP 456	80	0.37	930	800	730	280	355	700	50	405	450	750	100	700	40
TCVP 454	90	1.10	1450	800	730	280	355	700	50	405	450	750	100	700	48
TCVP 506	80	0.55	930	1000	900	400	400	700	80	510	550	800	70	750	82
TCVP 504	100	2.20	1450	1000	900	400	400	700	80	510	550	800	70	750	90
TCVP 566	90	1.10	930	1150	1050	430	450	800	80	560	600	900	70	850	150
TCVP 564	112	4.00	1450	1150	1050	430	450	800	80	560	600	900	70	850	160
TCVP 636	112	2.20	930	1300	1200	450	500	900	80	610	650	1000	70	950	180
TCVP 634	132	5.50	1450	1300	1200	450	500	900	80	610	650	1000	70	950	150
TCVP 716	132	4.00	930	1350	1270	500	600	1000	80	710	750	1100	70	1050	150
TCVP 714	160	11.00	1450	1350	1270	500	600	1000	80	710	750	1100	70	1050	180
TCVP 806	160	7.50	930	1600	1500	520	700	1300	80	810	850	1200	70	1150	220

Notes:

*Weights are variable according to the motorization (without ancillaries).



TDA – FORWARD CURVED BLADES: SELF-CERTIFICATION

Double-inlet centrifugal fan: Belt-drive

TDA range with inlet bellmouth and spark-proof guards, ATEX belts and, if necessary, the use of ATEX motors. These products are available and delivered self-certified. The belt drive facilitates the use of non-specific motors. There are many assembly possibilities and these products are available in single, double or triple versions. These products come in 11 sizes for the L (light) series and 19 sizes for the R (reinforced) series.

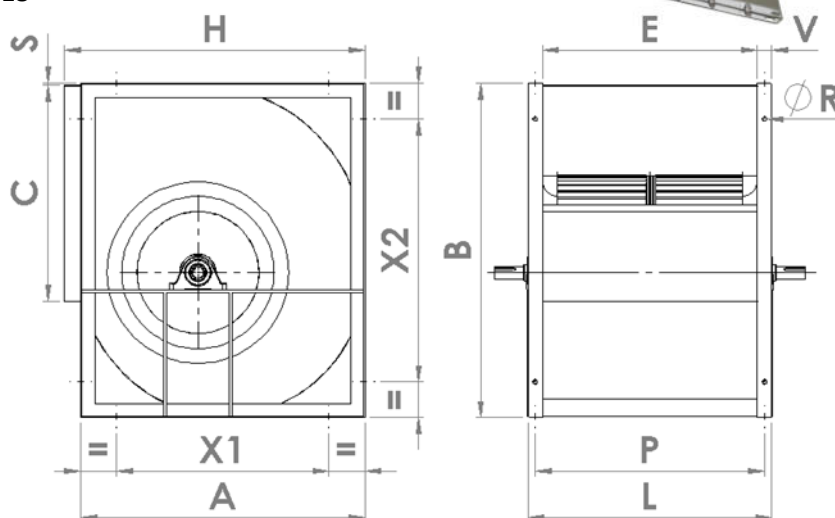


Standard construction:

- Housing made by spot welding and impellers made from pre-galvanized steel.
- Impeller with stapled G6.3 blades balanced according to ISO 1940
- Transmission line keyed on both sides
- Self-aligned, sealed and greased for life bearings for the light series
- Bearings with grease fittings from size 20/20 for the reinforced series.

Option:

- Stainless steel (304L)
- Epoxy paint finish
- Set of support feet for sizes 7/7 to 18/18



TDA. /.	A mm	B mm	C mm	E mm	H mm	L mm	P mm	S mm	V mm	X1 mm	X2 mm	ØR mm
7/7	195	330	209	232	315	280	258	6	24	220	255	10
9/9	355	404	265	298	380	346	323	6	24	280	327	10
10/10	402	452	290	326	432	374	350	6	24	326	377	10
12/12	475	534	342	386	505	444	416	6	29	384	443	10
15/15	553	622	404	473	585	532	504	6	29	460	531	10
18/18	666	754	480	556	700	626	592	6	35	553	641	10
20/20	795	935	604	602	840	682	642	6	40	595	735	12
22/22	863	1019	695	655	908	735	695	6	40	663	819	12
25/25	953	1142	794	765	998	845	805	6	40	753	942	12
30/28	1159	1374	933	890	1204	970	930	6	40	959	1174	12



TDA PERFORMANCES

Self-certification Series L (light) and Series R (reinforced)



Series L TDA ./.	Max. velocity rpm	Max. flow rate m3/h	Max. total P. Pa	Max. abs. P. kW
7/7	2500	3100	880	1.0
9/7	2000	4250	960	1.5
9/9	2000	5100	930	1.5
10/8	1700	5150	900	1.5
10/10	1700	6100	950	2.0
12/9	1500	6850	950	2.2
12/12	1500	8550	950	3.0
15/11	1200	9700	930	3.0
15/15	1200	12350	930	4.0
18/13	1000	13300	1000	5.0
18/18	1000	17300	900	5.0



Series R TDA ./.	Max. velocity rpm	Max. flow rate m3/h	Max. total P. Pa	Max. abs. P. kW
7/7	3100	3100	1220	1.5
9/7	2400	4250	1270	2.0
9/9	2400	5100	1270	2.3
10/8	2200	5150	1420	3.0
10/10	2200	6100	1400	3.0
12/9	1800	6850	1400	3.5
12/12	1800	8550	1220	3.5
15/11	1400	9700	1220	5.0
15/15	1400	12350	1180	5.5
18/13	1200	13300	1300	6.0
18/18	1200	17300	1180	7.0
20/15	900	19650	900	7.5
20/20	900	23550	880	9.0
22/15	900	23150	1050	11.5
22/20	900	27100	1080	11.5
22/22	900	29500	1070	11.5
25/20	700	34200	900	11.0
25/25	700	39350	900	13.0
30/20	600	40850	970	15.0
30/28	600	53800	980	15.0

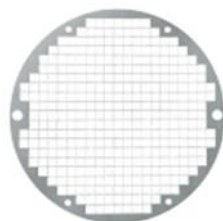
Notes:

The speeds are indicated for impellers made from galvanized steel.

For ancillaries / standard or specific installations, please consult the sales team.



Outlet flange



Inlet safety guard



Outlet flexible coupling flange



Anti-vibration mount

AREM

THE VENTILATION PERFORMANCE

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