



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.



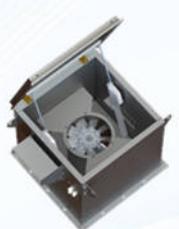
Direct-driven...



...Belt-driven



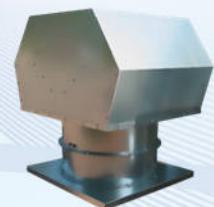
Soundproof plenum box...



...With motorized opening



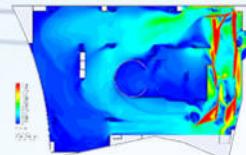
Roof fan - Horizontal discharge



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



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



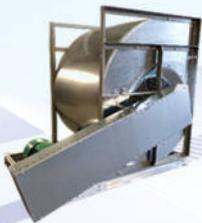
Direct-driven...



...Belt-driven



Direct-driven...



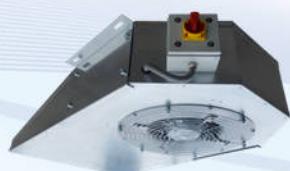
...Belt-driven



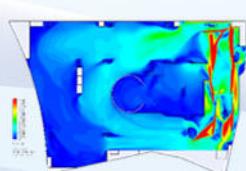
Plenum box – backwards inclined blades



Plenum box – forwards inclined blades



Jet fan (Accelerator)



CFD Simulation



Roof fan with horizontal discharge



Roof fan with vertical discharge



Plastic casing...



...Steel casing

BACKWARD CURVED FAN :

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



Available on request



FORWARD CURVED FAN :

C Series
VAD
TDA
TMD



Available on request



CELN
CELN EC
VGND
VGNT



Available on request



JFC
CFD STUDY



TCH
TCV
TCO
TCVP



Available on request

SMALL DIAMETER :

CP
CB



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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.



COOLING – AXIALS



DESCRIPTION

We have a range from diameter 250mm to 1800mm, from around 100 to 230,000 m³/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

Extraction of clean air at low and very low temperatures.

- Cold storage
- Freezing tunnel
- Cooling tower battery
- Cold storage for food, cold chamber, etc.



FLUID TEMPERATURE

Using a specific motor makes it possible to adjust temperatures from -30°C to +40°C.

We also have fans with anodized motors to operate between -40°C and +45°C.

Other temperatures are available on request.



CONSTRUCTION

Our fans are made in our factory, with pre-galvanized steel as standard.

We recommend the use of hot-dip galvanization or stainless steel for these environments. At your request, to meet your specifications and constraints, we can supply:

- 304L or 316L stainless steel, with or without passivation
- C5M paint treatment
- Aluminium

Solutions with EC motors are available. Please ask us.

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: AX - BX - CX**
- ✓ **Electronically commutated**



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.



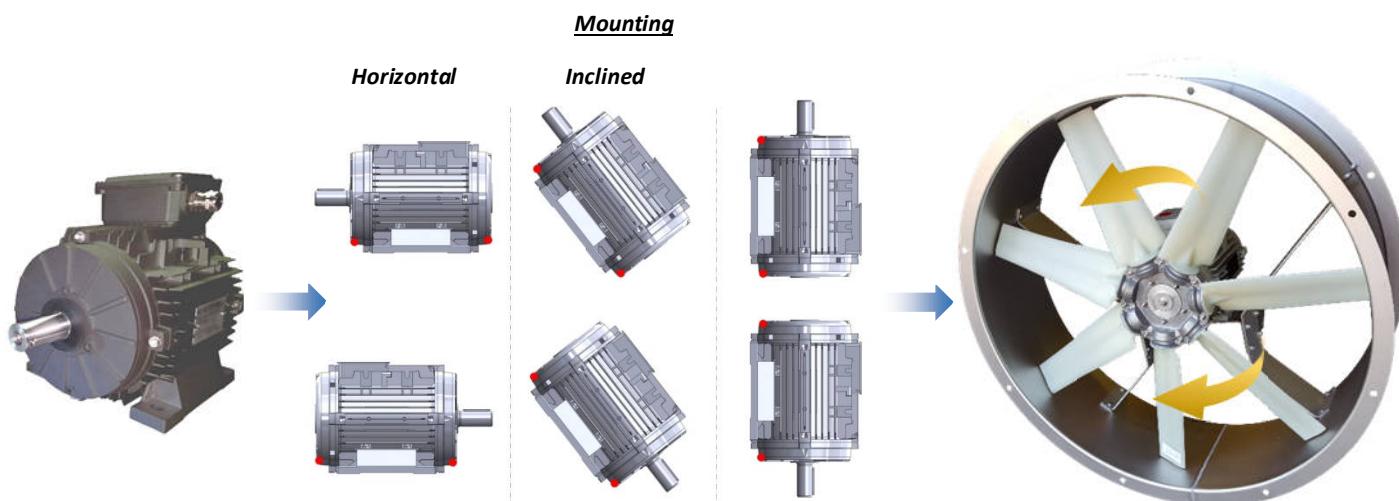
AXUS RANGE – OUR COOLING SOLUTIONS

Standard range

Our fans are made in France at our factory in Saint-Brisson sur Loire and are designed for process and low-temperature ventilation.

- Wide choice of long or short casings, with or without inlet bellmouth
- Configurations for horizontal, vertical and inclined mounting with the addition of relevant ancillaries
- For use in temperatures down to -30°C: fan with non-ventilated motor and specific devices (bearings, specific lubricants, purges, etc.)
- For use in temperatures down to -40°C: fan including motors with anodized aluminium frame and specific ancillaries (heating resistor, sensors, multi-position purge holes, etc.), compatible with the food industry.
- We also have solutions to deal with higher constraints upon request.

The use of mainly foot-mounted motors (B3) facilitates use in many configurations and makes any modification or maintenance requirements easy to satisfy. Thanks to our ranges of reversible impellers, we can cover the requirements for flow reversal integrated into your processes.



Our impellers 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. The glass reinforced polyamide impellers provide a solution that combines efficiency, robustness and lightness, including for temperatures down to -40°C.

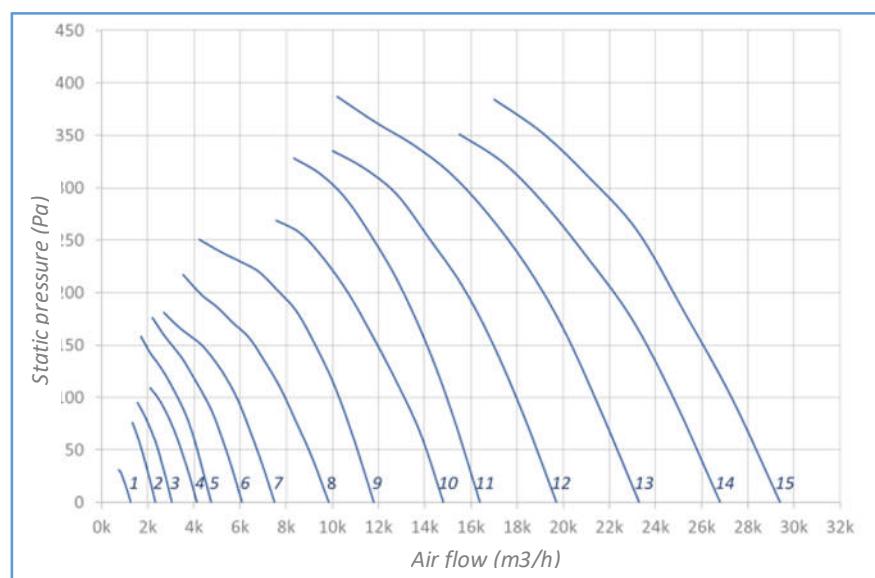


To achieve the most competitive lead time for our customers, we keep the largest possible range of motor power in stock and have access to multiple supply sources.

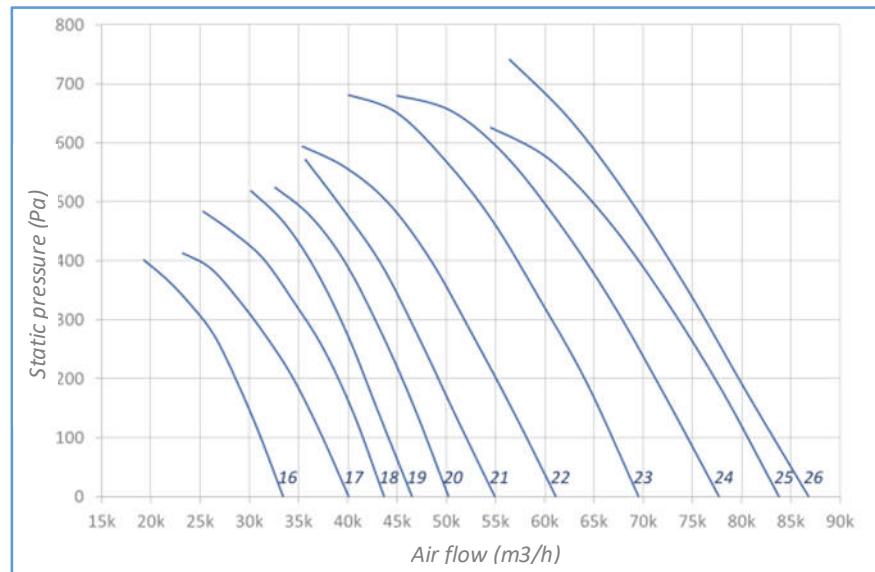


AXUS PERFORMANCES: 4 poles (1500 rpm)

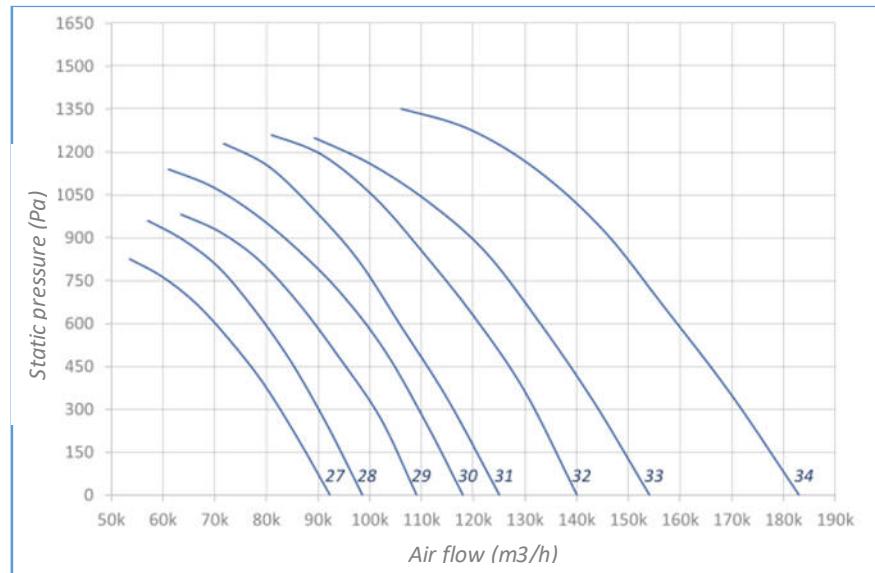
Common operating range



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	0.7
7	500	0.37	1.1
8	560	0.55	1.5
9	560	0.75	1.9
10	630	1.10	2.6
11	630	1.50	3.4
12	630	2.20	4.6
13	700	2.20	4.6
14	700	3.00	6.3
15	800	3.00	6.3



Curve No.	Ø mm	Power kW	Current A
16	800	4.00	8.2
17	800	5.50	11.1
18	800	7.50	14.3
19	900	7.50	14.3
20	900	9.50	17.8
21	900	11.00	20.7
22	900	15.00	27.7
23	1000	15.00	27.7
24	1000	18.50	35.4
25	1000	22.00	42.2
26	1000	30.00	53.8



Curve No.	Ø mm	Power kW	Current A
27	1120	22.00	42.2
28	1120	30.00	53.8
29	1120	37.00	66.4
30	1250	30.00	53.8
31	1250	45.00	81.3
32	1250	55.00	97.6
33	1400	55.00	97.6
34	1400	75.00	131.2

Notes:

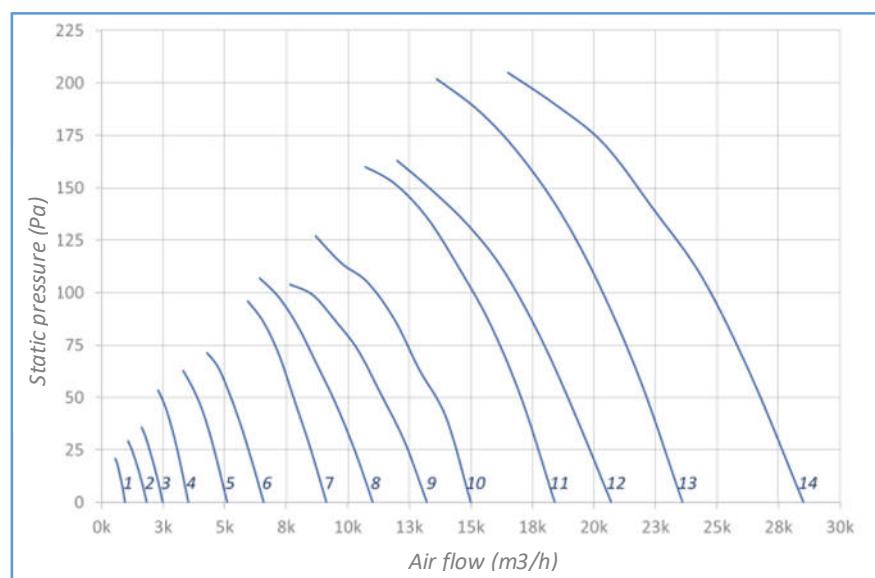
The current is indicated for a 400V/50Hz electricity network, variable depending on the motorization.

The curves represent just a very small part of air flow possibilities.

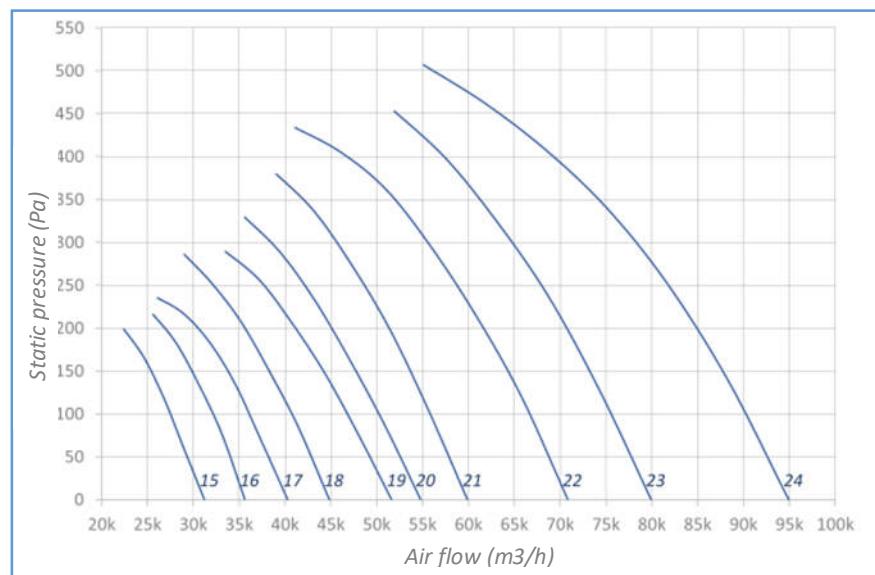


AXUS PERFORMANCES: 6 poles (1000 rpm)

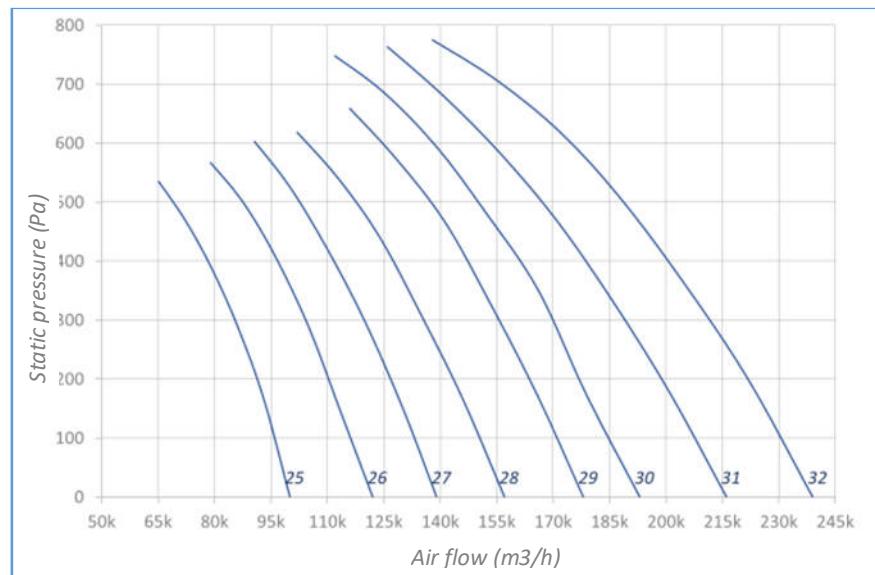
Common operating range



Curve No.	\varnothing 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	1.1
8	630	0.37	1.1
9	630	0.55	1.5
10	630	0.75	2.1
11	710	1.10	2.6
12	800	1.10	2.6
13	800	1.50	3.9
14	800	2.20	5.2



Curve No.	\varnothing 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	28.6
24	1250	18.50	36.4



Curve No.	\varnothing mm	Power kW	Current A
25	1250	22.00	43.1
26	1400	22.00	43.1
27	1400	30.00	54.4
28	1600	30.00	54.4
29	1600	37.00	67.3
30	1600	45.00	83.5
31	1800	45.00	83.5
32	1800	55.00	99.3

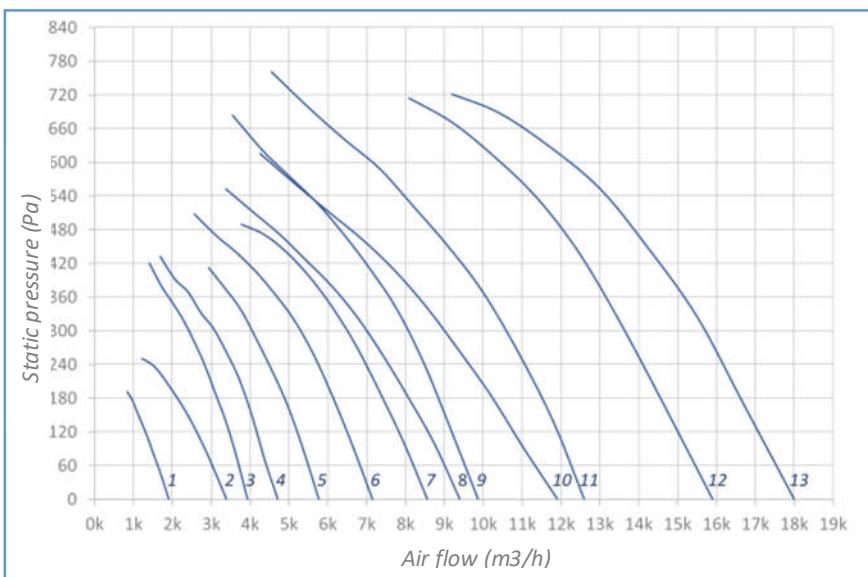
Notes:

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.

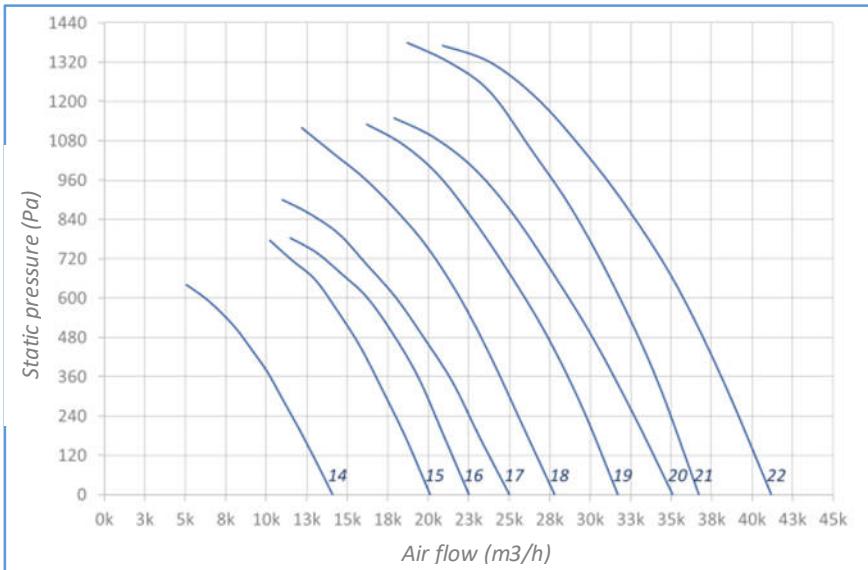


AXUS PERFORMANCES: 2 poles (3000 rpm)

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	3.2
10	500	1.50	3.2
11	500	2.20	4.5
12	500	3.00	6.2
13	500	4.00	7.3



Curve No.	Ø mm	Power kW	Current A
14	560	2.20	4.5
15	560	4.00	8.2
16	560	5.50	10.6
17	630	5.50	10.6
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:

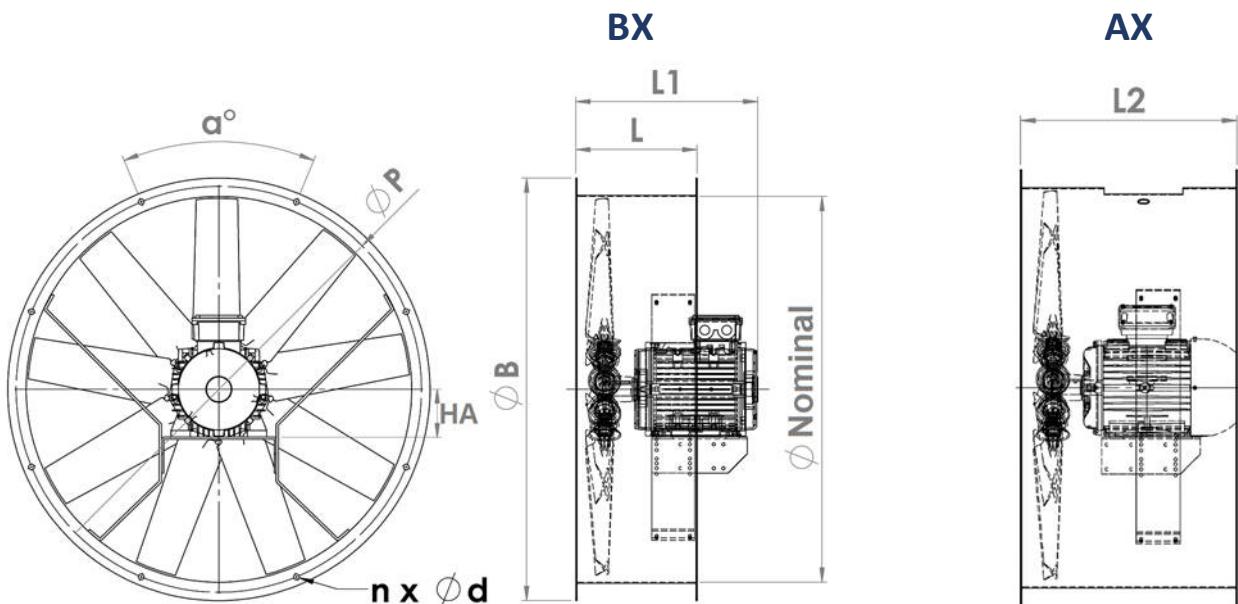
The current is indicated for a 400V/50Hz electricity network, variable depending on the motorization.
The curves represent just a very small part of air flow possibilities.





AX / BX DIMENSIONS

AX (long casing) - BX (short casing)



Nominal Ø 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	63-112 132	254 425	440 600	572	6	60	12	540	59 98	55 92
560	71-112 132	254 425	440 600	626	6	60	12	594	62 101	57 95
630	63-112 132 160	254 425 425	440 600 675	704	6	60	12	670	65 105 139	59 99 133
710	80-112 132-160	254 425	440 675	780	6	60	12	744	69 142	62 135
800	80-112 132-160 180	254 425 425	440 675 800	885	8	45	12	850	72 177 184	65 163 170
900	90-160 180	425 425	675 800	990	12	30	15	954	188 231	171 205
1000	90-160 180 200	425 425 600	675 800 865	1090	12	30	15	1056	206 250 320	187 222 294
1120	100-180 200-225 250-280	465 665 800	800 1010 1010	1230	12	30	15	1190	266 524 689	237 485 639
1250	100-180 200-225 250-280	465 665 800	800 1010 1010	1375	12	30	15	1320	308 549 950	265 506 917
1400	132-180 200-225 250-280	650 650 800	900 1010 1010	1530	12	30	15	1480	348 586 994	326 535 957
1600	132-180 200-225 250-280	650 650 650	900 1010 1010	1730	16	22.5	15	1660	398 616 1035	350 559 993
1800	160-225 250-280	685 800	1010 1010	1930	24	15	15	1880	560 1089	607 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).

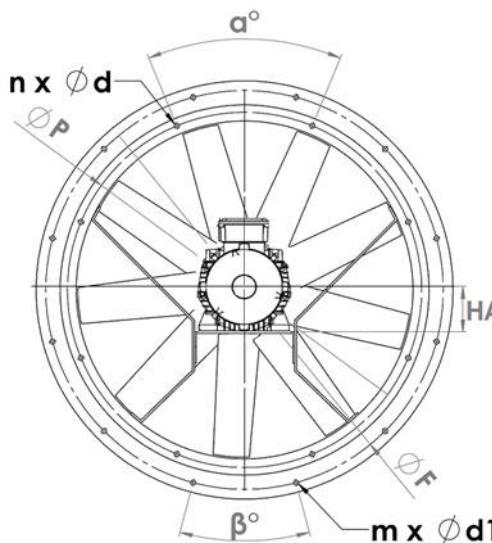
For diameters greater than 1800mm, contact us.



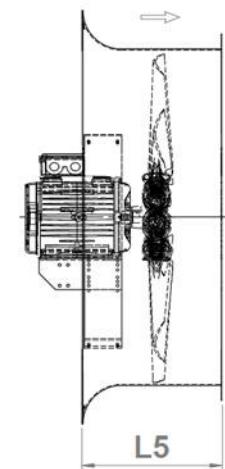
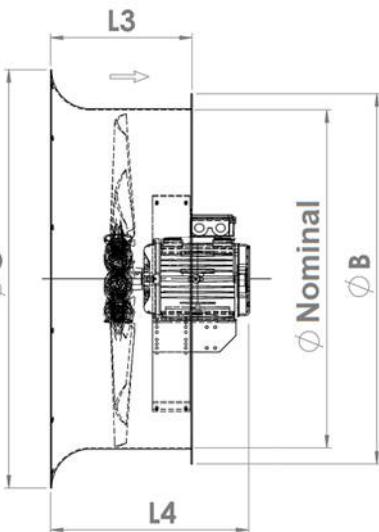
CX DIMENSIONS

CX (short casing with inlet bellmouth)

CXB



CXA



Nominal Ø mm	HA mm	L3 mm	B mm	n -	α °	d mm	P mm	C mm	m -	β °	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.



AXUS EC – ELECTRONICALLY COMMUTATED

Integrated and External EC

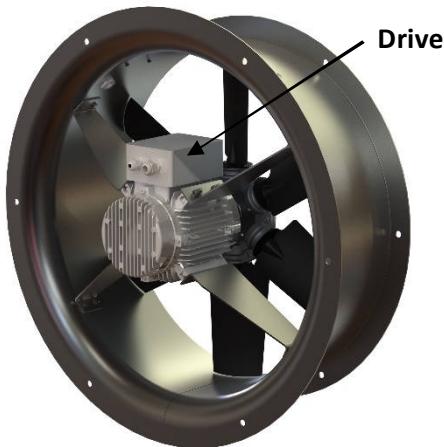
If the fans are used daily for many hours at a time or require variability in their use, we have a range of axial fans fitted with electronically commutated motors. By means of different control modes, it is possible to adapt speeds, from the simplest to the most complicated and thus reduce the energy consumption of your installations.

These fans are fitted with high yield motors (from IE4 to IE5) and retain very high-performance levels over their entire range of use.

Characteristics:

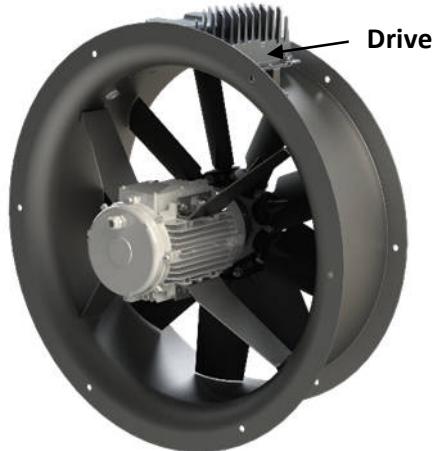
- Diameter from 400 to 1250mm
- EC solutions with integrated or external drive
- Electronic management and communication via ModBus RS485
- Motor speed variation with 0-10V input signal
- Fast connection terminal blocks

Integrated EC



- ✓ Drive integrated in the motor
- ✓ Off / On: contact 1 or 0
- ✓ Speed feedback signal: 3 pulses/rev
- ✓ Motor fault code via Modbus
- ✓ Modbus connection: terminal blocks
- ✓ Temperature: from -20 à 45°C

External EC



- ✓ Drive attached to the casing
- ✓ On/Off: detection 1 Volt
- ✓ Speed feedback signal: 1 pulse/rev
- ✓ Motor fault code via Modbus
- ✓ Modbus connection: terminal blocks or RJ12 plug
- ✓ Temperature: from -40 to 45°C
- ✓ 2x digital inputs: terminal blocks
 - On / Off
 - Default reset
 - Direction of rotation if use of reversible impeller
 - Booster mode (full motor speed)
- ✓ 1x digital output: terminal blocks
 - Tachymeter
 - In operation LED indicator
 - Fault LED indicator

Factory settings:

- Motor with maximum speed 1500 rpm; we limit the minimum speed to 500 rpm.
- Motor with maximum speed 3000 rpm; we limit the minimum speed to 1000 rpm.
- In the external EC version, the inputs and outputs are not configured by default.

AXUS EC RANGE

Standard range

Our AXUS EC range is made in pre-galvanized steel as standard. Options in 304L or 316L stainless steel, hot-dip galvanized steel and paint coating are available on request. The range is available for single-phase and triple-phase networks for the 50/60Hz frequencies in accordance with the table below:

Diameter mm	Integrated EC Volt. 50/60Hz	External EC Volt. 50/60Hz
400	✓ (1x 230/280V)	✗
450	✓ (1x 230/280V)	✗
500	✓ (1x 230/280V)	✗
560	✓ (1x 230/280V)	✓ (1x 230/280V)
630	✓ (1x 230/280V)	✓ (3x 400/440V)
710	✓ (1x 230/280V)	✓ (3x 400/440V)
800	✓ (1x 230/280V)	✓ (3x 400/440V)
900	✗	✓ (3x 400/440V)
1000	✗	✓ (3x 400/440V)
1120	✗	✓ (3x 400/440V)
1250	✗	✓ (3x 400/440V)

Different solutions are proposed to meet specific requests. Based on the standard range, we can build tailor-made products to satisfy your specific applications:

- Solution with reversible impeller, in insulated plenum box, etc.
- 480V/60Hz network, corrosive environment, etc.
- Running at particular speeds, configuration of inputs and outputs according to demand, etc.
- Specific mounting, external drive in a technical room, etc.

Example of specific mounting: Reversible axial fan

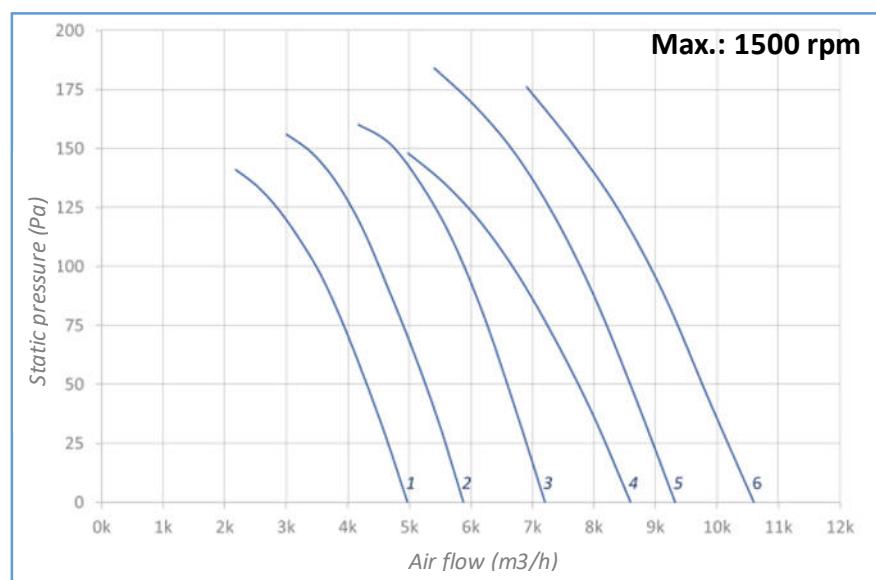
- ✓ EC motor with external drive
- ✓ Paint coating
- ✓ On-off switch connector
- ✓ Control in a technical room



INTEGRATED AXUS EC: Max. speed 1500 and 3000 rpm

Common operating range

COOLING



Curve No.	Ø mm	Power kW	Current A
1	400	0.20	1.6
2	400	0.40	2.8
3	450	0.40	2.8
4	500	0.40	2.8
5	500	0.55	3.6
6	500	0.80	4.8

Notes:

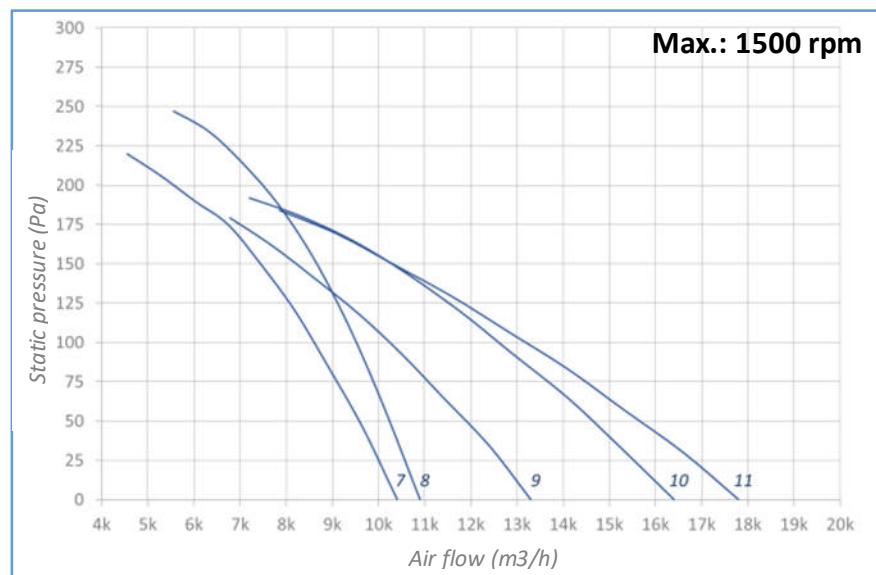
Frequency: 50Hz - 60Hz

Voltage: 230V - 280V

Minimum speed: 500 rpm

Maximum speed: 1500 rpm

Representation with maximum speed



Curve No.	Ø mm	Power kW	Current A
7	560	0.80	4.8
8	560	1.10	7.0
9	630	0.80	4.8
10	710	1.10	7.0
11	800	1.10	7.0

Notes:

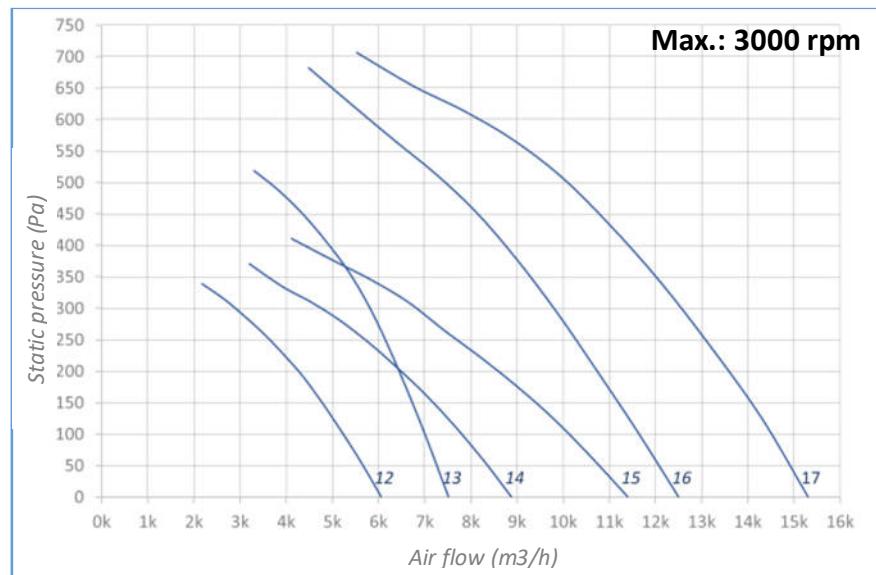
Frequency: 50Hz - 60Hz

Voltage: 230V - 280V

Minimum speed: 500 rpm

Maximum speed: 1500 rpm

Representation with maximum speed



Curve No.	Ø mm	Power kW	Current A
12	400	0.40	2.8
13	400	0.80	4.8
14	450	0.80	4.8
15	500	1.10	7.0
16	500	1.50	9.6
17	500	2.20	14.0

Notes:

Frequency: 50Hz - 60Hz

Voltage: 230V - 280V

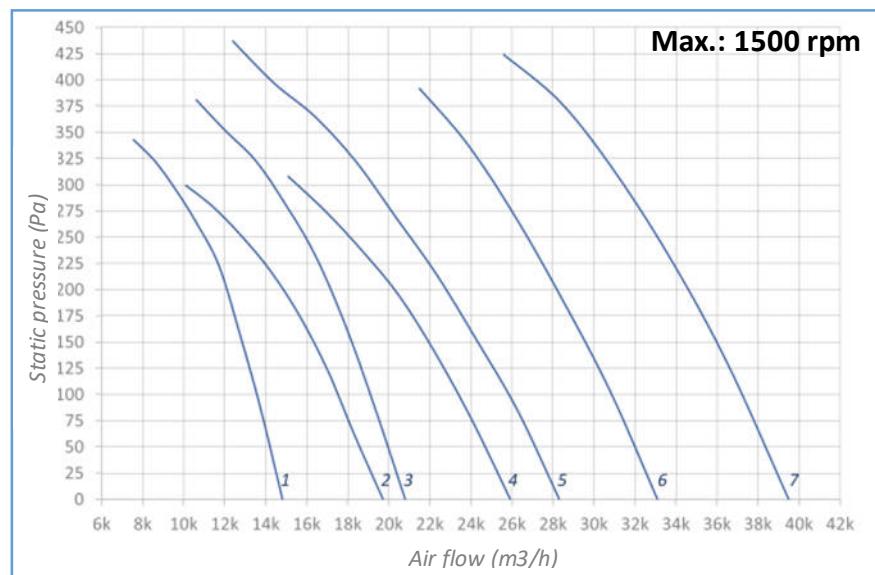
Minimum speed: 1000 rpm

Maximum speed: 3000 rpm

Representation with maximum speed

EXTERNAL AXUS EC: Max. speed 1500 rpm

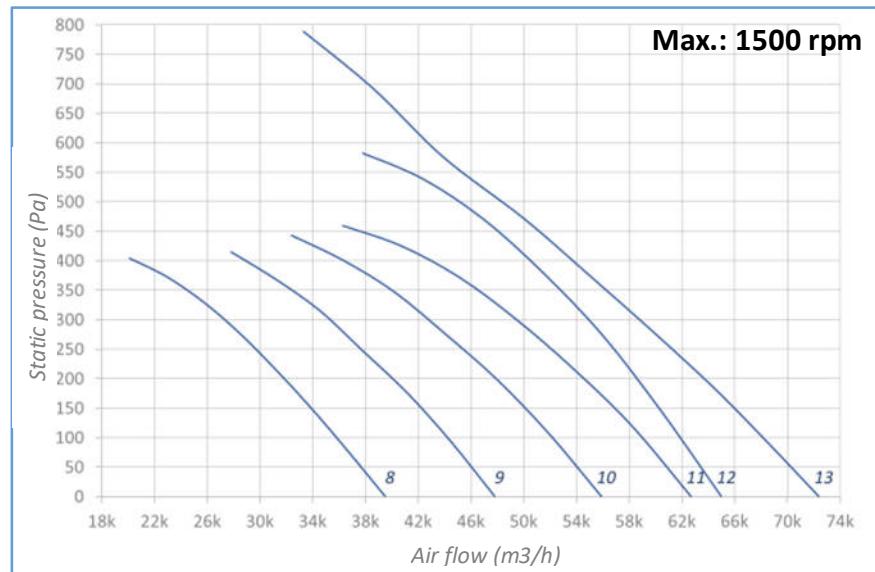
Common operating range



Curve No.	Ø mm	Power kW	Current A
1	630	1.50	3.4
2	710	1.50	3.4
3	710	2.20	5.1
4	800	2.20	5.1
5	900	3.00	6.4
6	900	4.00	8.5
7	900	5.50	11.6

Notes:

Frequency: 50Hz - 60Hz
 Voltage: 400V
 Minimum speed: 500 rpm
 Maximum speed: 1500 rpm
 Representation with maximum speed



Curve No.	Ø mm	Power kW	Current A
8	1000	4.00	8.5
9	1000	5.50	11.6
10	1000	7.50	15.7
11	1000	9.20	20.5
12	1000	11.00	24.5
13	1250	11.00	24.5

Notes:

Frequency: 50Hz - 60Hz
 Voltage: 400V
 Minimum speed: 500 rpm
 Maximum speed: 1500 rpm
 Representation with maximum speed

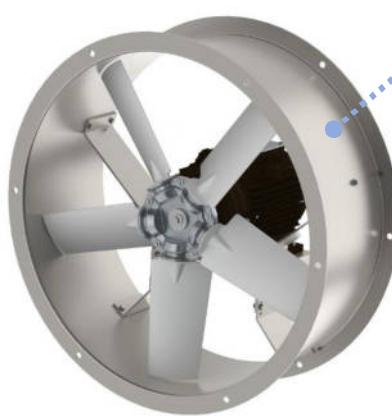
A modular design to meet your specific requirements...



Casing with integrated inlet bellmouth...
 technical



with straight flange...



external drive in a
 room, etc.



INTERNATIONAL
PRESENCE

