B02 · INDUSTRIAL DUCT FANS

AS-AX-2P

Industrial Axial Pressurization Fans (2-Pole)



AS-AX-2P axial pressurization fans run with 2-pole, high-speed motors. They meet the pressurization needs of stairwells, elevator shafts and similar spaces where high airflow and pressure are required, and are preferred in ducted systems.

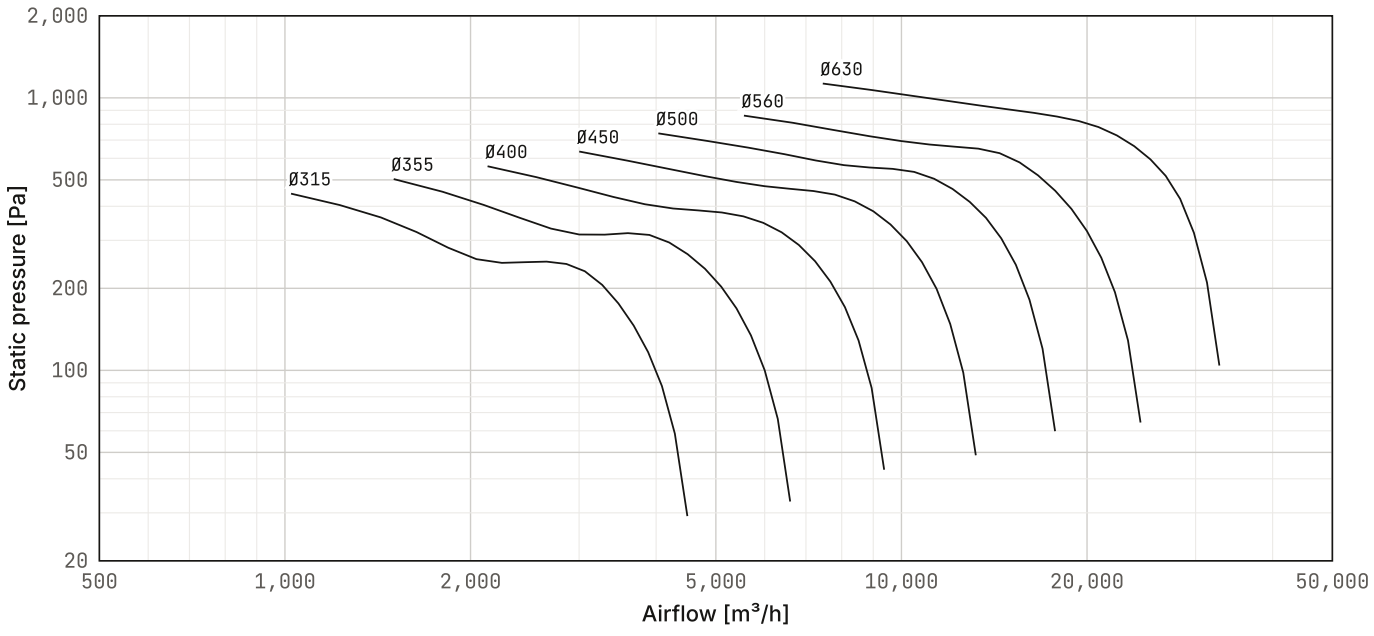
The casing is made of galvanized sheet steel with round connections. The fan can be installed in-line in a duct, on a wall or on a roof, with horizontal or vertical air discharge. Aluminium impellers with 6 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø315 to Ø630 mm.

The direct-drive, totally enclosed fan-cooled (TEFC) 2-pole WAT motors have IP55 protection and class F insulation and are rated for continuous S1 duty. IE3 efficiency is standard; IE4 and EC motors are available on request. Versions for 400 V 3~ 50 Hz and 380 V 3~ 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
34,286* m³/h	1,428* Pa	315 – 630 mm	0.75 – 15 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
2,883 – 2,930 min⁻¹	400 V 3~ · 50 Hz	50°C	IE3 standard · EC / IE4 on request · IP55 · F

Selection chart

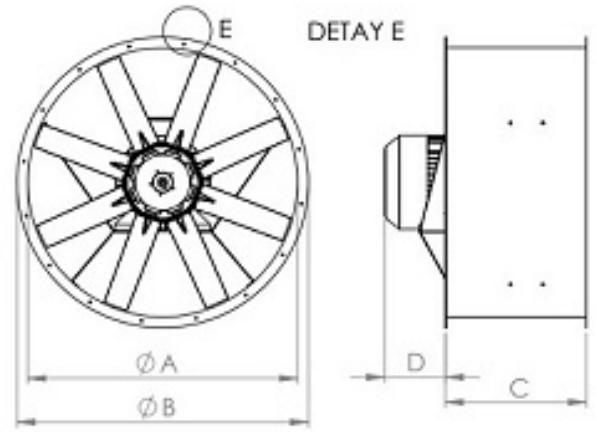
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



Technical data 50 Hz

Model	Ø [mm]	Motor [kW]	Speed [min⁻¹]	Supply	I [A]	Max. airflow [m³/h]	Max. pressure [Pa]	LpA 1 m [dB(A)]	FEG
AS-AX-2P 315-6-45 IE3	315	0.75	2,883	400 V 3~	1.8	4,700	650	63	50
AS-AX-2P 355-6-45 IE3	355	1.1	2,890	400 V 3~	2.3	6,900	740	65	60
AS-AX-2P 400-6-45 IE3	400	3.0	2,890	400 V 3~	5.9	9,800	800	67	45
AS-AX-2P 450-6-45 IE3	450	3.0	2,890	400 V 3~	5.9	13,800	870	69	55
AS-AX-2P 500-6-45 IE3	500	5.5	2,920	400 V 3~	10.5	18,554*	987*	72	65
AS-AX-2P 560-6-45 IE3	560	7.5	2,918	400 V 3~	13.9	25,533*	1,027*	75	75
AS-AX-2P 630-8-45 IE3	630	15.0	2,930	400 V 3~	27.9	34,286*	1,428*	80	65

Dimensions [mm]

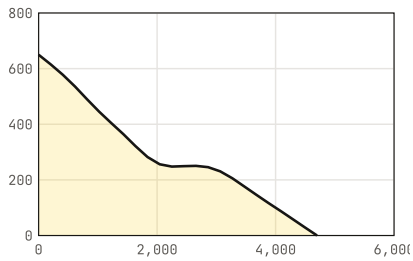


Model	A	B	C	D	E
AS-AX-2P 315-6-45	315	395	320	50	11
AS-AX-2P 355-6-45	355	435	320	50	11
AS-AX-2P 400-6-45	400	480	320	70	11
AS-AX-2P 450-6-45	450	530	320	80	11
AS-AX-2P 500-6-45	500	580	320	90	11
AS-AX-2P 560-6-45	560	640	320	100	11
AS-AX-2P 630-8-45	630	710	420	150	11

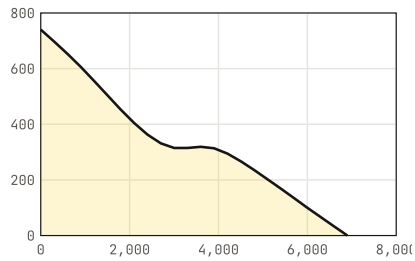
Performance curves

Static pressure [Pa] vs airflow [m³/h], standard motor, 1.204 kg/m³. *

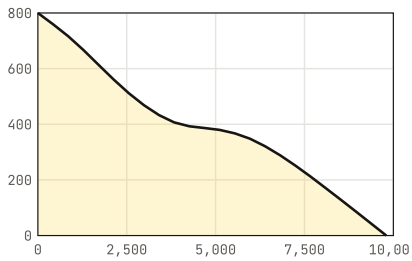
AS-AX-2P 315-6-45 2,883 min⁻¹ · 0.75 kW



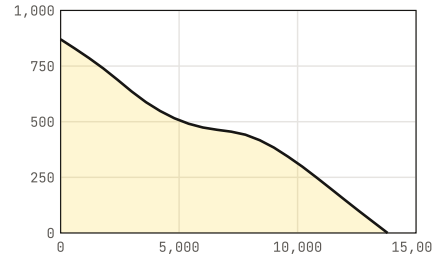
AS-AX-2P 355-6-45 2,890 min⁻¹ · 1.1 kW



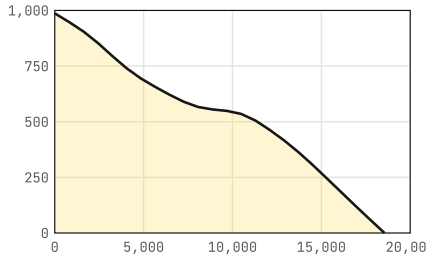
AS-AX-2P 400-6-45 2,890 min⁻¹ · 3.0 kW



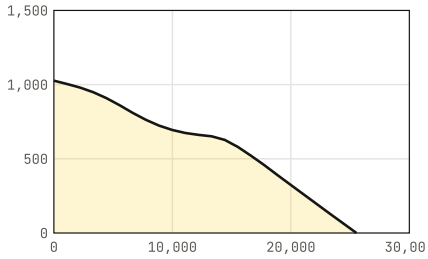
AS-AX-2P 450-6-45 2,890 min⁻¹ · 3.0 kW



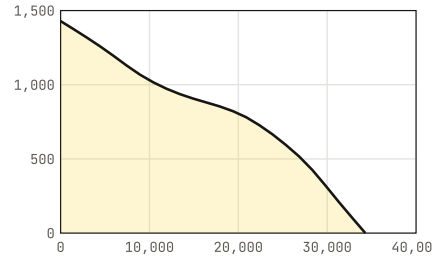
AS-AX-2P 500-6-45 2,920 min⁻¹ · 5.5 kW



AS-AX-2P 560-6-45 2,918 min⁻¹ · 7.5 kW



AS-AX-2P 630-8-45 2,930 min⁻¹ · 15.0 kW



Sound power level Lw [dB] per octave band

casing radiated · 63–8000 Hz

Model	63	125	250	500	1k	2k	4k	8k	Total	LpA 1 m [dB(A)]
AS-AX-2P 315-6-45	39	50	65	64	65	63	60	55	**71**	63
AS-AX-2P 355-6-45	41	52	67	66	67	65	62	57	**73**	65
AS-AX-2P 400-6-45	43	54	69	68	69	67	64	59	**75**	67
AS-AX-2P 450-6-45	45	56	71	70	71	69	66	61	**77**	69
AS-AX-2P 500-6-45	48	59	74	73	74	72	69	64	**80**	72
AS-AX-2P 560-6-45	51	62	77	76	77	75	72	67	**83**	75
AS-AX-2P 630-8-45	56	67	82	81	82	80	77	72	**88**	80

Notes

* Curve scaled to the speed of the standard motor with the fan laws ($Q \propto n$, $p \propto n^2$).
Sound pressure level at 1 m (free field) from the AEROMIS product database.
FEG shown for models that meet ErP 2026 (EU 2024/1834).
7 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.