A07 · CAR PARK & SMOKE EXTRACT FANS

AS-AXF-2P F300

Industrial Axial Smoke Exhaust Fans (2-Pole) – F300



AS-AXF-2P F300 axial smoke exhaust fans run with 2-pole, high-speed motors and withstand 300 °C for two hours. They evacuate smoke from car parks in the event of fire and are preferred in projects that require high airflow and pressure.

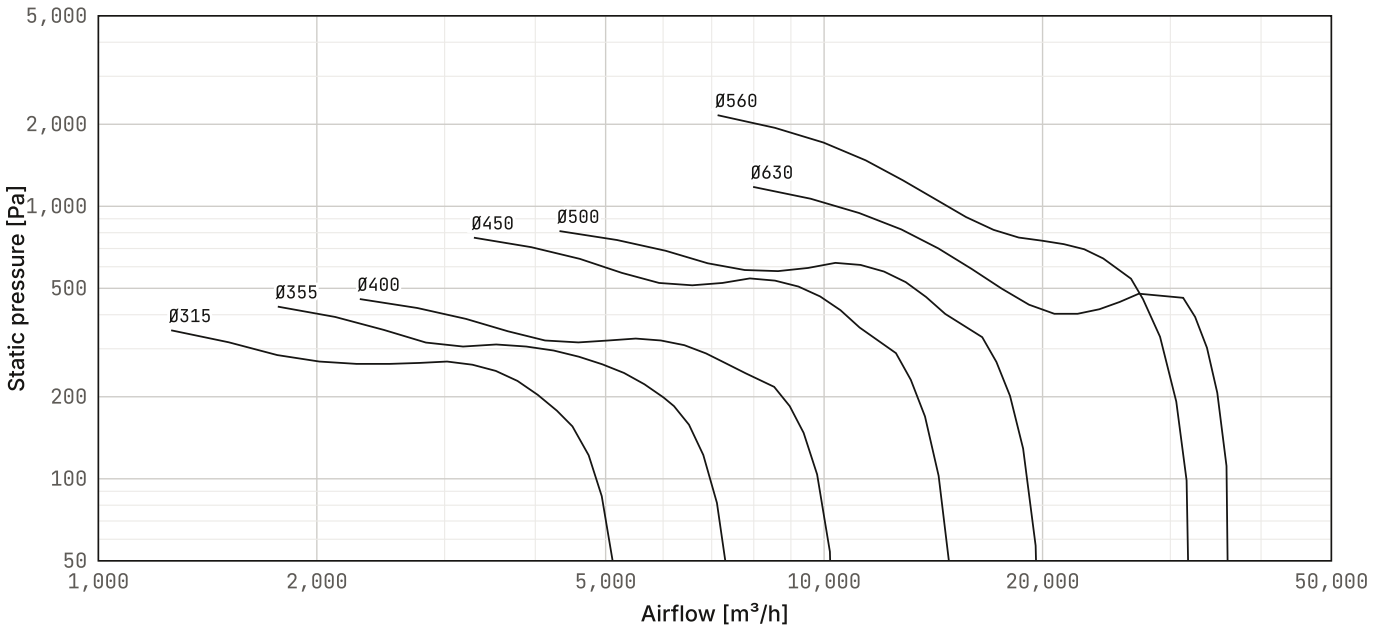
The casing is made of galvanized sheet steel with round connections. The fan can be installed in-line in a duct, on a wall or on a roof, with horizontal or vertical air discharge. Aluminium impellers with 6 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø315 to Ø630 mm.

The direct-drive, totally enclosed fan-cooled (TEFC) 2-pole WAT motors have IP55 protection and class F insulation. The standard motor is an IE3 motor rated for F300 smoke duty (300 °C, 2 h) and for S1 and S2 duty. Versions for 400 V 3~ 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +300 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
36,572* m³/h	2,802* Pa	315 – 630 mm	0.75 – 15 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
2,903 – 2,967 min⁻¹	400 V 3~ · 50 Hz	300°C/2h	IE3 F300 standard · IP55 · F

Selection chart

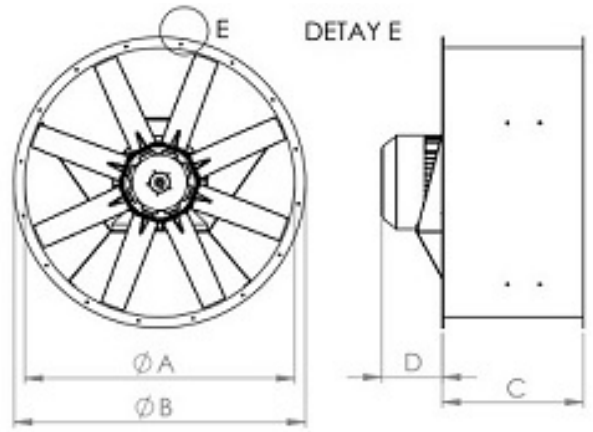
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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)]
AS-AXF-2P F300 315-6-45 IE3 F300	315	0.75	2,903	400 V 3~	1.8	5,342*	467*	87
AS-AXF-2P F300 355-6-45 IE3 F300	355	1.1	2,908	400 V 3~	2.5	7,573*	551*	89
AS-AXF-2P F300 400-6-45 IE3 F300	400	3.0	2,934	400 V 3~	5.7	10,596*	560*	93
AS-AXF-2P F300 450-6-45 IE3 F300	450	4.0	2,917	400 V 3~	7.5	15,597*	944*	96
AS-AXF-2P F300 500-6-45 IE3 F300	500	5.5	2,927	400 V 3~	11.1	20,326*	981*	98
AS-AXF-2P F300 560-6-45 IE3 F300	560	7.5	2,934	400 V 3~	14.5	32,602*	2,802*	103
AS-AXF-2P F300 630-8-45 IE3 F300	630	15.0	2,967	400 V 3~	27.6	36,572*	1,486*	104

Dimensions [mm]

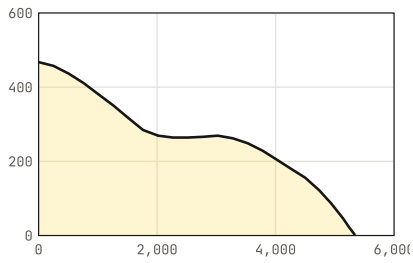


Model	A	B	C	D	E
AS-AXF-2P F300 315-6-45	315	395	320	80	11
AS-AXF-2P F300 355-6-45	355	435	320	80	11
AS-AXF-2P F300 400-6-45	400	480	420	45	11
AS-AXF-2P F300 450-6-45	450	530	420	50	11
AS-AXF-2P F300 500-6-45	500	580	420	95	11
AS-AXF-2P F300 560-6-45	560	640	520	20	11
AS-AXF-2P F300 630-8-45	630	710	520	175	11

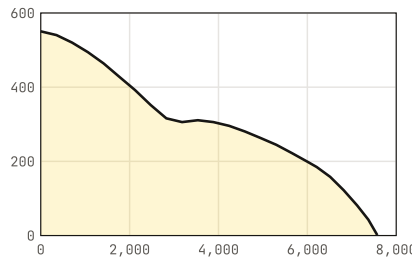
Performance curves

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

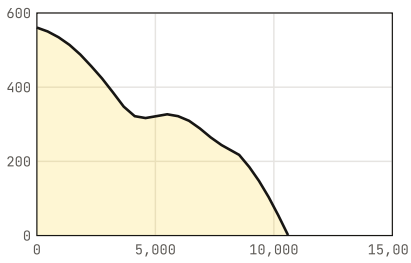
AS-AXF-2P F300 315-6-45 2,903 min⁻¹ · 0.75 kW



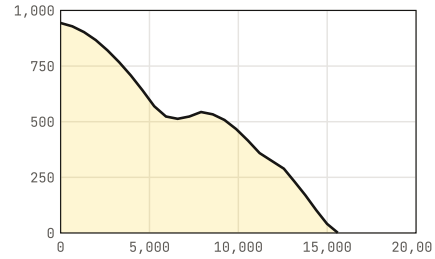
AS-AXF-2P F300 355-6-45 2,908 min⁻¹ · 1.1 kW



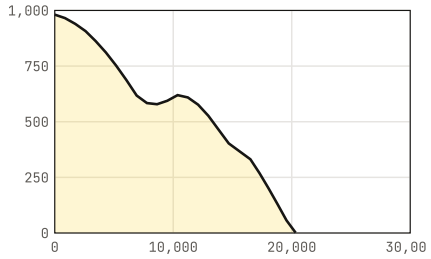
AS-AXF-2P F300 400-6-45 2,934 min⁻¹ · 3.0 kW



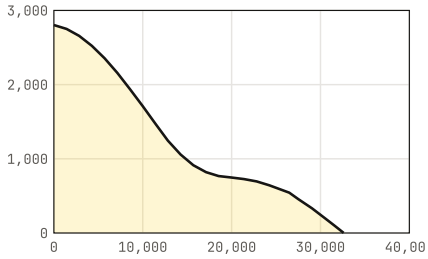
AS-AXF-2P F300 450-6-45 2,917 min⁻¹ · 4.0 kW



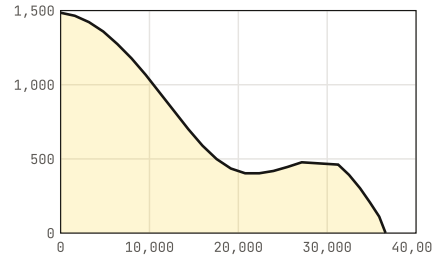
AS-AXF-2P F300 500-6-45 2,927 min⁻¹ · 5.5 kW



AS-AXF-2P F300 560-6-45 2,934 min⁻¹ · 7.5 kW



AS-AXF-2P F300 630-8-45 2,967 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-AXF-2P F300 315-6-45	81	82	90	83	81	78	75	72	**92**	87
AS-AXF-2P F300 355-6-45	83	84	92	85	83	80	77	74	**94**	89
AS-AXF-2P F300 400-6-45	86	87	95	88	86	83	80	77	**97**	93
AS-AXF-2P F300 450-6-45	90	91	99	92	90	87	84	81	**101**	96
AS-AXF-2P F300 500-6-45	92	93	101	94	92	89	86	83	**103**	98
AS-AXF-2P F300 560-6-45	97	98	106	99	97	94	91	88	**108**	103
AS-AXF-2P F300 630-8-45	97	98	100	105	97	94	91	88	**108**	104

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.
7 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.