A05 · CAR PARK & SMOKE EXTRACT FANS

AS-AXF F300

Industrial Axial Smoke Exhaust Fans – F300



AS-AXF F300 axial smoke exhaust fans withstand 300 °C for two hours. Used together with jet fans, they evacuate smoke from car parks in the event of fire.

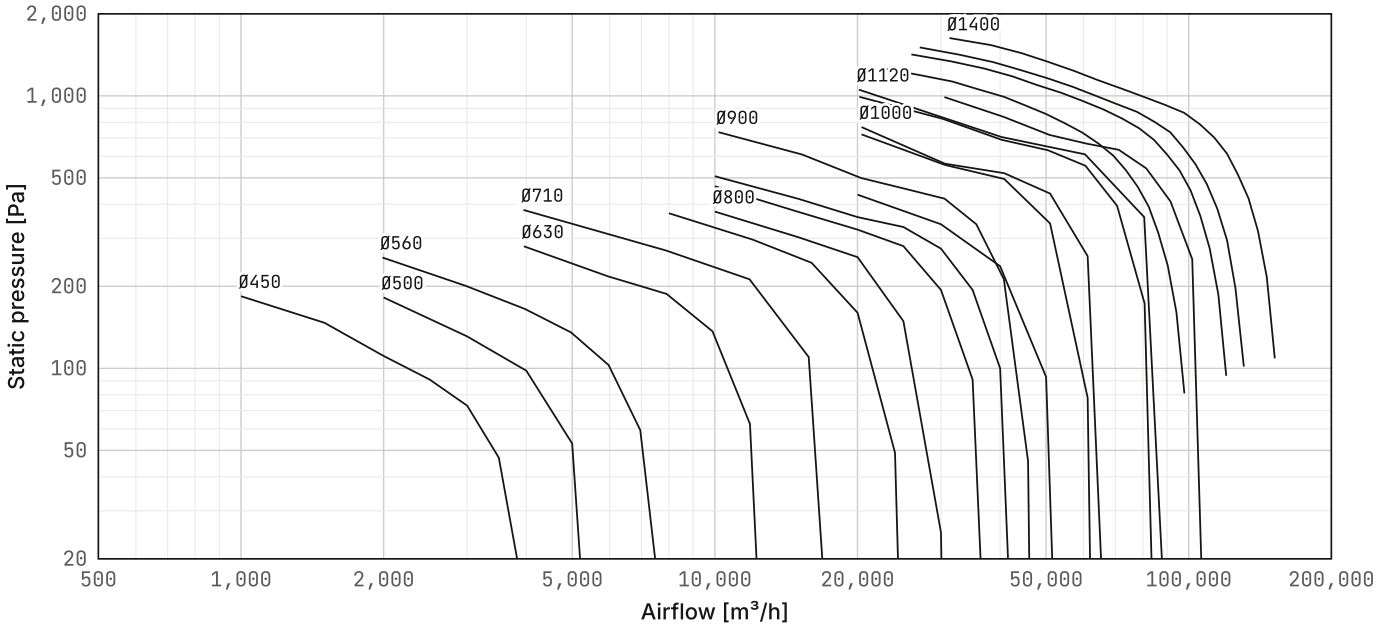
The casing is made of galvanized sheet steel with round connections. The fan can be installed in-line in a duct, on a wall or on a roof, with horizontal or vertical air discharge. Aluminium impellers with 5, 6, 8 or 12 blades, balanced to ISO 1940-1, cover sizes from Ø450 to Ø1,400 mm.

The direct-drive, 4-pole WAT motors have TEAO cooling, IP55 protection and class F insulation. The standard motor is an IE3 motor (IE4 on the largest Ø1,400 model) 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
157,593* m³/h	2,141* Pa	450 – 1,400 mm	0.55 – 75 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,448 – 1,492 min⁻¹	400 V 3~ · 50 Hz	300°C/2h	IE3 F300 / IE4 F300 standard · IP55 · F

Selection chart

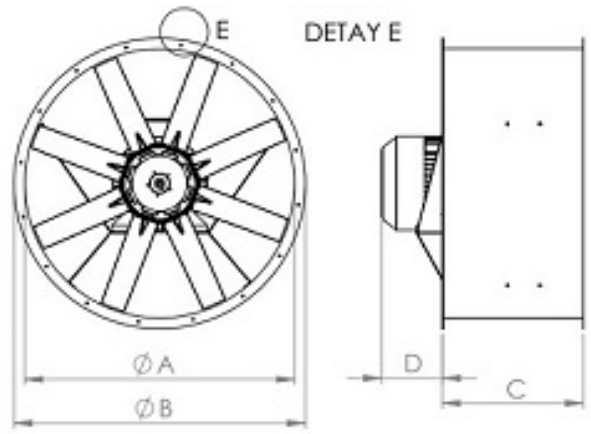
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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 F300 450-5-25 IE3 F300	450	0.55	1,455	400 V 3~	1.4	4,180	253	69
AS-AXF F300 500-5-25 IE3 F300	500	0.55	1,455	400 V 3~	1.4	5,845	305	72
AS-AXF F300 560-5-25 IE3 F300	560	0.75	1,458	400 V 3~	1.9	8,105*	354*	75
AS-AXF F300 630-5-30 IE3 F300	630	1.1	1,448	400 V 3~	2.5	13,324*	442*	80
AS-AXF F300 710-5-30 IE3 F300	710	1.5	1,452	400 V 3~	3.5	18,949*	508*	83
AS-AXF F300 800-5-30 IE3 F300	800	2.2	1,458	400 V 3~	5.3	25,560	577	85
AS-AXF F300 800-5-35 IE3 F300	800	3.0	1,457	400 V 3~	6.5	30,940	634	89
AS-AXF F300 900-5-35 IE3 F300	900	5.5	1,473	400 V 3~	11.2	39,250	664	90
AS-AXF F300 900-5-40 IE3 F300	900	5.5	1,473	400 V 3~	11.2	44,635	694	93
AS-AXF F300 900-8-40 IE3 F300	900	15.0	1,480	400 V 3~	31.7	47,027*	982*	94
AS-AXF F300 1000-5-40 IE3 F300	1,000	7.5	1,474	400 V 3~	15.2	54,570	691	94
AS-AXF F300 1000-8-40 IE3 F300	1,000	18.5	1,485	400 V 3~	35.0	63,489*	1,121*	97
AS-AXF F300 1000-8-45 IE3 F300	1,000	22.0	1,487	400 V 3~	42.4	70,444*	1,161*	99
AS-AXF F300 1120-8-40 IE3 F300	1,120	30.0	1,484	400 V 3~	57.2	87,382*	1,323*	100
AS-AXF F300 1120-8-45 IE3 F300	1,120	30.0	1,484	400 V 3~	57.2	95,918*	1,363*	102
AS-AXF F300 1120-12-50 IE3 F300	1,120	45.0	1,485	400 V 3~	85.1	111,881*	1,324*	110
AS-AXF F300 1400-6-24 IE3 F300	1,400	30.0	1,484	400 V 3~	57.2	101,534*	1,608*	90
AS-AXF F300 1400-6-28 IE3 F300	1,400	45.0	1,485	400 V 3~	85.1	124,372*	1,839*	94
AS-AXF F300 1400-6-30 IE3 F300	1,400	55.0	1,492	400 V 3~	104.7	135,346*	1,971*	96
AS-AXF F300 1400-6-34 IE4 F300	1,400	75.0	1,492	400 V 3~	127.9	157,593*	2,141*	98

Dimensions [mm]



Model	A	B	C	D	E
AS-AXF F300 450-5-25	450	530	320	50	11
AS-AXF F300 500-5-25	500	580	320	70	11
AS-AXF F300 560-5-25	560	640	320	60	11
AS-AXF F300 630-5-30	630	710	420	45	11
AS-AXF F300 710-5-30	710	790	420	25	11
AS-AXF F300 800-5-30	800	880	420	50	11
AS-AXF F300 800-5-35	800	880	420	50	11

Dimensions [mm]

Model	A	B	C	D	E
AS-AXF F300 900-5-35	900	980	520	0	11
AS-AXF F300 900-5-40	900	980	520	35	11
AS-AXF F300 900-8-40	900	980	520	75	11
AS-AXF F300 1000-5-40	1,000	1,080	520	150	11
AS-AXF F300 1000-8-40	1,000	1,080	520	180	11
AS-AXF F300 1000-8-45	1,000	1,080	520	250	11
AS-AXF F300 1120-8-40	1,120	1,200	520	250	11
AS-AXF F300 1120-8-45	1,120	1,200	520	300	11
AS-AXF F300 1120-12-50	1,120	1,200	520	300	11
AS-AXF F300 1400-6-24	1,400	1,500	1,200	0	11
AS-AXF F300 1400-6-28	1,400	1,500	1,200	0	11
AS-AXF F300 1400-6-30	1,400	1,500	1,200	0	11
AS-AXF F300 1400-6-34	1,400	1,500	1,200	0	11

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 F300 450-5-25	45	56	71	70	71	69	66	61	**77**	69
AS-AXF F300 500-5-25	48	59	74	73	74	72	69	64	**80**	72
AS-AXF F300 560-5-25	51	62	77	76	77	75	72	67	**83**	75
AS-AXF F300 630-5-30	56	67	82	81	82	80	77	72	**88**	80
AS-AXF F300 710-5-30	59	70	85	84	85	83	80	75	**91**	83
AS-AXF F300 800-5-30	61	72	87	86	87	85	82	77	**93**	85
AS-AXF F300 800-5-35	65	76	91	90	91	89	86	81	**97**	89
AS-AXF F300 900-5-35	66	77	92	91	92	90	87	82	**98**	90
AS-AXF F300 900-5-40	69	80	95	94	95	93	90	85	**101**	93
AS-AXF F300 900-8-40	70	81	96	95	96	94	91	86	**102**	94
AS-AXF F300 1000-5-40	70	81	96	95	96	94	91	86	**102**	94
AS-AXF F300 1000-8-40	73	84	99	98	99	97	94	89	**105**	97
AS-AXF F300 1000-8-45	75	86	101	100	101	99	96	91	**107**	99
AS-AXF F300 1120-8-40	76	87	102	101	102	100	97	92	**108**	100
AS-AXF F300 1120-8-45	78	89	104	103	104	102	99	94	**110**	102
AS-AXF F300 1120-12-50	86	97	112	111	112	110	107	102	**118**	110
AS-AXF F300 1400-6-24	67	84	87	92	93	91	88	83	**98**	90
AS-AXF F300 1400-6-28	71	88	91	96	97	95	92	87	**102**	94
AS-AXF F300 1400-6-30	73	90	93	98	99	97	94	89	**104**	96
AS-AXF F300 1400-6-34	75	92	95	100	101	99	96	91	**106**	98

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