C02 · ROOF FANS

AS-AXR F300

Industrial Roof Type Axial Smoke Exhaust Fans – F300



AS-AXR F300 roof type 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.

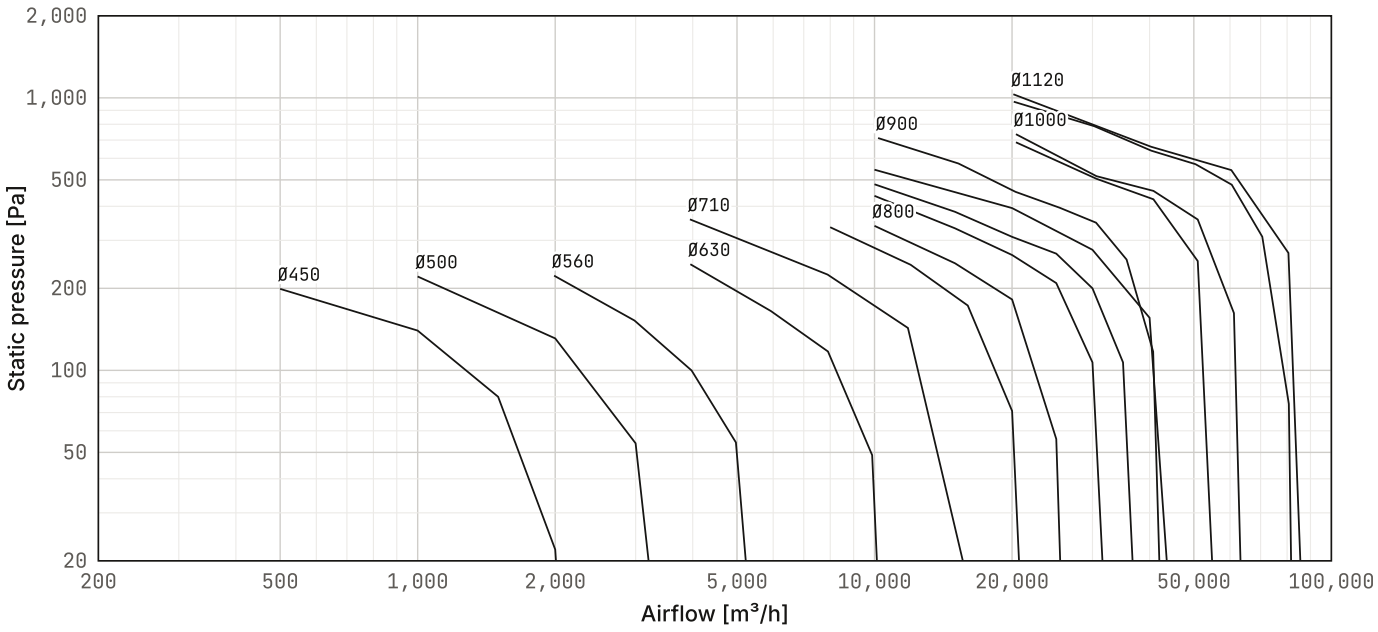
The casing is made of galvanized sheet steel with electrostatic powder coating. The fan is designed for roof installation and has a prismatic connection. Aluminium impellers with 5 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø450 to Ø1,120 mm.

The direct-drive, 4-pole WAT motors have TEAO cooling, 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
91,619* m³/h	1,363* Pa	450 – 1,120 mm	0.55 – 30 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,448 – 1,487 min⁻¹	400 V 3~ · 50 Hz	300°C	IE3 F300 standard · IP55 · F

Selection chart

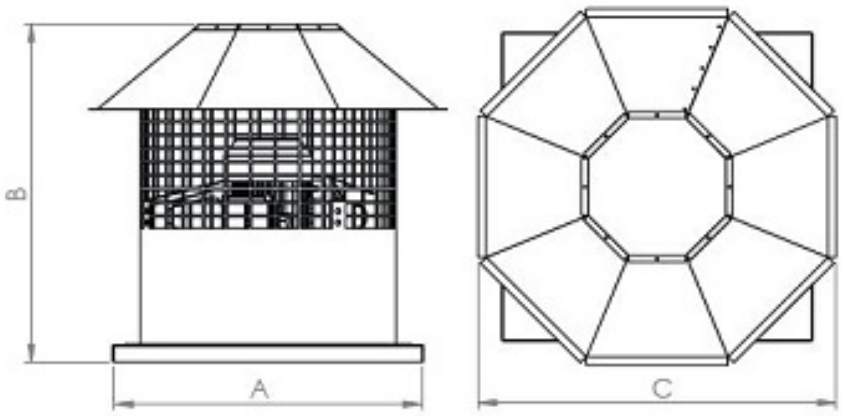
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-AXR F300 450-5-25 IE3 F300	450	0.55	1,455	400 V 3~	1.4	2,250	253	69
AS-AXR F300 500-5-25 IE3 F300	500	0.55	1,455	400 V 3~	1.4	3,900	305	72
AS-AXR F300 560-5-25 IE3 F300	560	0.75	1,458	400 V 3~	1.9	6,066*	354*	75
AS-AXR F300 630-5-30 IE3 F300	630	1.1	1,448	400 V 3~	2.5	10,971*	442*	80
AS-AXR F300 710-5-30 IE3 F300	710	1.5	1,452	400 V 3~	3.5	16,769*	508*	83
AS-AXR F300 800-5-30 IE3 F300	800	2.2	1,458	400 V 3~	5.3	22,500	577	85
AS-AXR F300 800-5-35 IE3 F300	800	3.0	1,457	400 V 3~	6.5	27,000	634	89
AS-AXR F300 900-5-35 IE3 F300	900	5.5	1,473	400 V 3~	11.2	34,500	664	90
AS-AXR F300 900-5-40 IE3 F300	900	5.5	1,473	400 V 3~	11.2	40,000	694	93
AS-AXR F300 900-8-40 IE3 F300	900	15.0	1,480	400 V 3~	31.7	44,279*	982*	94
AS-AXR F300 1000-5-40 IE3 F300	1,000	7.5	1,474	400 V 3~	15.2	49,500	691	94
AS-AXR F300 1000-8-40 IE3 F300	1,000	18.5	1,485	400 V 3~	35.0	59,664*	1,121*	97
AS-AXR F300 1000-8-45 IE3 F300	1,000	22.0	1,487	400 V 3~	42.4	66,294*	1,161*	99
AS-AXR F300 1120-8-40 IE3 F300	1,120	30.0	1,484	400 V 3~	57.2	83,730*	1,323*	100
AS-AXR F300 1120-8-45 IE3 F300	1,120	30.0	1,484	400 V 3~	57.2	91,619*	1,363*	102

Dimensions [mm]



Model	A	B	C
AS-AXR F300 450-5-25	550	800	640
AS-AXR F300 500-5-25	600	800	700
AS-AXR F300 560-5-25	650	800	760
AS-AXR F300 630-5-30	750	850	850
AS-AXR F300 710-5-30	850	850	950
AS-AXR F300 800-5-30	950	850	1,070
AS-AXR F300 800-5-35	950	850	1,070
AS-AXR F300 900-5-35	1,050	1,200	1,140
AS-AXR F300 900-5-40	1,050	1,200	1,140
AS-AXR F300 900-8-40	1,050	1,200	1,140
AS-AXR F300 1000-5-40	1,150	1,200	1,240
AS-AXR F300 1000-8-40	1,150	1,200	1,240
AS-AXR F300 1000-8-45	1,150	1,200	1,240

Dimensions [mm]

Model	A	B	C
AS-AXR F300 1120-8-40	1,250	1,550	1,390
AS-AXR F300 1120-8-45	1,250	1,550	1,390

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

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