C01 · ROOF FANS

AS-AXR

Industrial Roof Type Axial Fans



AS-AXR roof type axial fans meet the pressurization and extraction needs of stairwells, elevator shafts and similar spaces. A top cover plate shields the motor from rain and, together with the electrostatic powder coating, allows the fans to operate outdoors for many years.

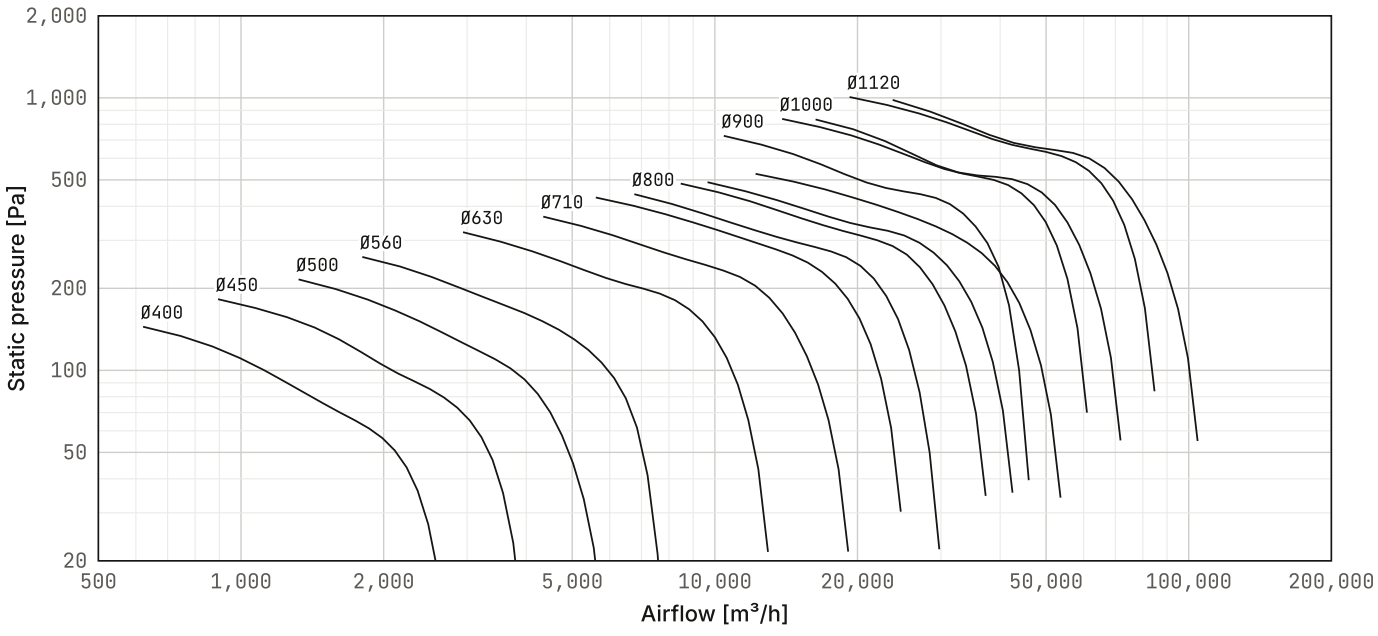
The casing is made of galvanized sheet steel with electrostatic powder coating. The fan is designed for roof installation and has a prismatic connection. Aluminium impellers with 5 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø400 to Ø1,120 mm.

The direct-drive, totally enclosed fan-cooled (TEFC) 4-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
109,162* m³/h	1,361* Pa	400 – 1,120 mm	0.37 – 30 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,425 – 1,483 min⁻¹	400 V 3~ · 50 Hz	50°C	IE3 standard · EC / IE4 on request · IP55 · F

Selection chart

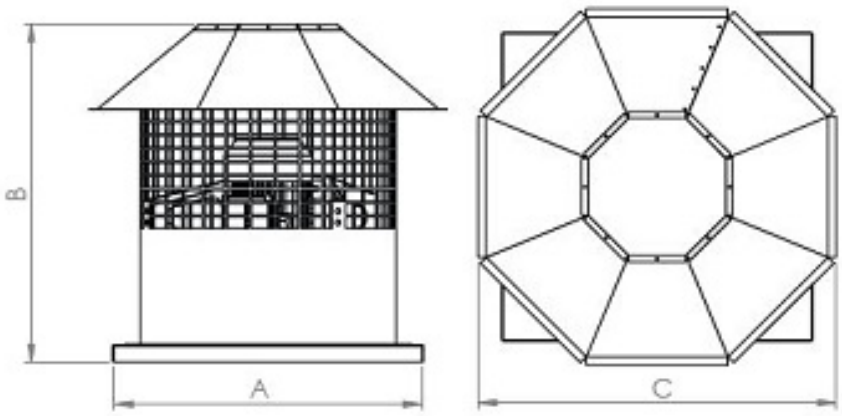
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-AXR 400-5-25 IE3	400	0.37	1,428	400 V 3~	1.1	2,856*	192*	55	–
AS-AXR 450-5-25 IE3	450	0.55	1,425	400 V 3~	1.4	4,111*	242*	69	–
AS-AXR 500-5-25 IE3	500	0.55	1,425	400 V 3~	1.4	6,080*	293*	72	40
AS-AXR 560-5-25 IE3	560	0.75	1,447	400 V 3~	1.8	8,291*	349*	75	50
AS-AXR 630-5-30 IE3	630	1.1	1,447	400 V 3~	2.6	13,531*	441*	80	75
AS-AXR 710-5-30 IE3	710	1.5	1,449	400 V 3~	3.2	19,983*	506*	83	90
AS-AXR 800-5-30 IE3	800	2.2	1,452	400 V 3~	5.5	25,800	577	85	90
AS-AXR 800-5-35 IE3	800	3.0	1,445	400 V 3~	6.2	31,113*	618*	89	85
AS-AXR 900-5-35 IE3	900	4.0	1,455	400 V 3~	8.3	38,971*	650*	90	85
AS-AXR 900-5-40 IE3	900	5.5	1,443	400 V 3~	11.3	44,408*	667*	93	70
AS-AXR 900-8-40 IE3	900	15.0	1,477	400 V 3~	30.9	48,047*	978*	94	50
AS-AXR 1000-5-40 IE3	1,000	7.5	1,467	400 V 3~	15.2	56,082*	681*	94	60
AS-AXR 1000-8-40 IE3	1,000	18.5	1,474	400 V 3~	36.7	63,781*	1,105*	97	55
AS-AXR 1000-8-45 IE3	1,000	22.0	1,473	400 V 3~	45.0	75,065*	1,139*	99	50
AS-AXR 1120-8-40 IE3	1,120	22.0	1,483	400 V 3~	43.3	88,520*	1,321*	100	65
AS-AXR 1120-8-45 IE3	1,120	30.0	1,483	400 V 3~	59.0	109,162*	1,361*	102	50

Dimensions [mm]



Model	A	B	C
AS-AXR 400-5-25	500	800	640
AS-AXR 450-5-25	550	800	640
AS-AXR 500-5-25	600	800	700
AS-AXR 560-5-25	650	800	760
AS-AXR 630-5-30	750	850	850
AS-AXR 710-5-30	850	850	950
AS-AXR 800-5-30	950	850	1,070
AS-AXR 800-5-35	950	850	1,070
AS-AXR 900-5-35	1,050	1,200	1,140
AS-AXR 900-5-40	1,050	1,200	1,140
AS-AXR 900-8-40	1,050	1,200	1,140
AS-AXR 1000-5-40	1,150	1,200	1,240

Dimensions [mm]

Model	A	B	C
AS-AXR 1000-8-40	1,150	1,200	1,240
AS-AXR 1000-8-45	1,150	1,200	1,240
AS-AXR 1120-8-40	1,250	1,550	1,390
AS-AXR 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 400-5-25	31	42	57	56	57	55	52	47	**63**	55
AS-AXR 450-5-25	45	56	71	70	71	69	66	61	**77**	69
AS-AXR 500-5-25	48	59	74	73	74	72	69	64	**80**	72
AS-AXR 560-5-25	51	62	77	76	77	75	72	67	**83**	75
AS-AXR 630-5-30	56	67	82	81	82	80	77	72	**88**	80
AS-AXR 710-5-30	59	70	85	84	85	83	80	75	**91**	83
AS-AXR 800-5-30	61	72	87	86	87	85	82	77	**93**	85
AS-AXR 800-5-35	65	76	91	90	91	89	86	81	**97**	89
AS-AXR 900-5-35	66	77	92	91	92	90	87	82	**98**	90
AS-AXR 900-5-40	69	80	95	94	95	93	90	85	**101**	93
AS-AXR 900-8-40	70	81	96	95	96	94	91	86	**102**	94
AS-AXR 1000-5-40	70	81	96	95	96	94	91	86	**102**	94
AS-AXR 1000-8-40	73	84	99	98	99	97	94	89	**105**	97
AS-AXR 1000-8-45	75	86	101	100	101	99	96	91	**107**	99
AS-AXR 1120-8-40	76	87	102	101	102	100	97	92	**108**	100
AS-AXR 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∝n, p∝n²).
Sound pressure level at 1 m (free field) from the AEROMIS product database.
FEG shown for models that meet ErP 2026 (EU 2024/1834).
16 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.