B04 · INDUSTRIAL DUCT FANS

AS-AX-SQR

Industrial Cabinet Axial Fans



AS-AX-SQR cabinet axial fans have the fan mounted inside a cabinet. Because the cabinet is suitable for multi-directional mounting, they can be used where installation conditions are difficult. An on-off switch and an internal cabinet silencer are fitted as standard.

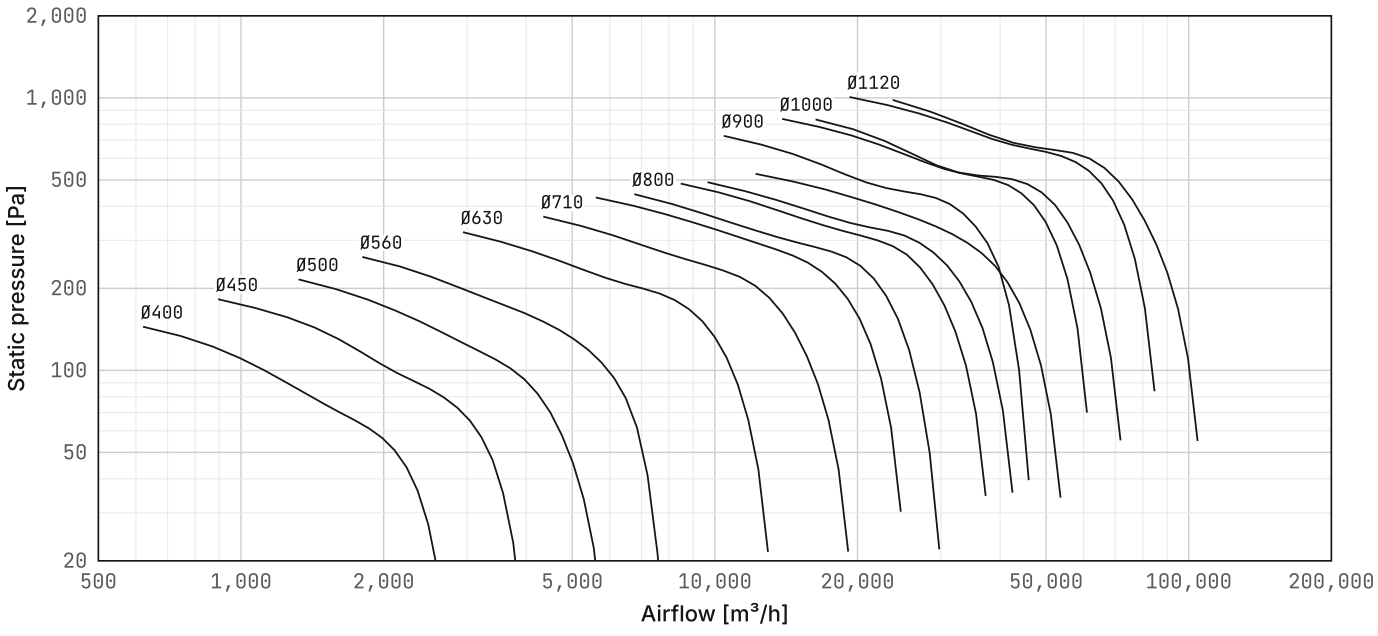
The cabinet is made of galvanized sheet steel and the fan has round connections. Air discharge can be horizontal or vertical. Aluminium impellers with 5 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø400 to Ø1,120 mm.

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

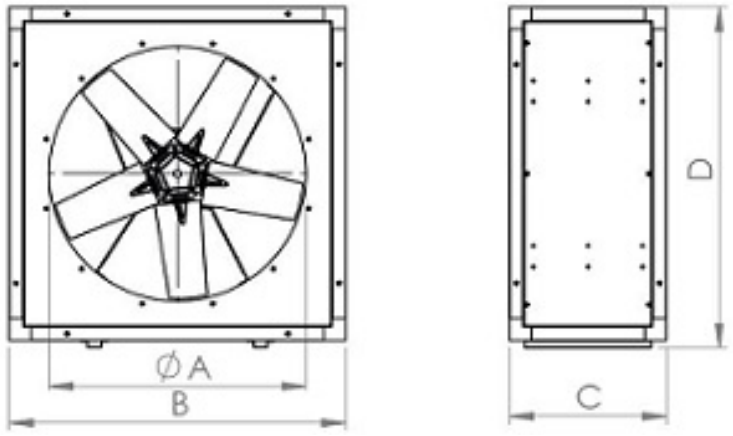
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-AX-SQR 400-5-25 IE3	400	0.37	1,428	400 V 3~	1.1	2,856*	192*	60	–
AS-AX-SQR 450-5-25 IE3	450	0.55	1,425	400 V 3~	1.4	4,111*	242*	61	–
AS-AX-SQR 500-5-25 IE3	500	0.55	1,425	400 V 3~	1.4	6,080*	293*	62	40
AS-AX-SQR 560-5-25 IE3	560	0.75	1,447	400 V 3~	1.8	8,291*	349*	63	50
AS-AX-SQR 630-5-30 IE3	630	1.1	1,447	400 V 3~	2.6	13,531*	441*	64	75
AS-AX-SQR 710-5-30 IE3	710	1.5	1,449	400 V 3~	3.2	19,983*	506*	65	90
AS-AX-SQR 800-5-30 IE3	800	2.2	1,452	400 V 3~	5.5	25,800	577	67	90
AS-AX-SQR 800-5-35 IE3	800	3.0	1,445	400 V 3~	6.2	31,113*	618*	69	85
AS-AX-SQR 900-5-35 IE3	900	4.0	1,455	400 V 3~	8.3	38,971*	650*	71	85
AS-AX-SQR 900-5-40 IE3	900	5.5	1,443	400 V 3~	11.3	44,408*	667*	73	70
AS-AX-SQR 900-8-40 IE3	900	15.0	1,477	400 V 3~	30.9	48,047*	978*	76	50
AS-AX-SQR 1000-5-40 IE3	1,000	7.5	1,467	400 V 3~	15.2	56,082*	681*	73	60
AS-AX-SQR 1000-8-40 IE3	1,000	18.5	1,474	400 V 3~	36.7	63,781*	1,105*	77	55
AS-AX-SQR 1000-8-45 IE3	1,000	22.0	1,473	400 V 3~	45.0	75,065*	1,139*	78	50
AS-AX-SQR 1120-8-40 IE3	1,120	22.0	1,483	400 V 3~	43.3	88,520*	1,321*	79	65
AS-AX-SQR 1120-8-45 IE3	1,120	30.0	1,483	400 V 3~	59.0	109,162*	1,361*	81	50

Dimensions [mm]



Model	A	B	C	D
AS-AX-SQR 400-5-25	400	620	425	645
AS-AX-SQR 450-5-25	450	670	425	695
AS-AX-SQR 500-5-25	500	720	425	745
AS-AX-SQR 560-5-25	560	780	425	805
AS-AX-SQR 630-5-30	630	850	425	875
AS-AX-SQR 710-5-30	710	930	425	955
AS-AX-SQR 800-5-30	800	1,020	425	1,045
AS-AX-SQR 800-5-35	800	1,020	425	1,045
AS-AX-SQR 900-5-35	900	1,120	525	1,145
AS-AX-SQR 900-5-40	900	1,120	525	1,145
AS-AX-SQR 900-8-40	900	1,120	525	1,145
AS-AX-SQR 1000-5-40	1,000	1,220	525	1,245

Dimensions [mm]

Model	A	B	C	D
AS-AX-SQR 1000-8-40	1,000	1,220	525	1,245
AS-AX-SQR 1000-8-45	1,000	1,220	525	1,245
AS-AX-SQR 1120-8-40	1,120	1,340	525	1,365
AS-AX-SQR 1120-8-45	1,120	1,340	525	1,365

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-SQR 400-5-25	36	47	62	61	62	60	57	52	**68**	60
AS-AX-SQR 450-5-25	37	48	63	62	63	61	58	53	**69**	61
AS-AX-SQR 500-5-25	38	49	64	63	64	62	59	54	**70**	62
AS-AX-SQR 560-5-25	39	50	65	64	65	63	60	55	**71**	63
AS-AX-SQR 630-5-30	40	51	66	65	66	64	61	56	**72**	64
AS-AX-SQR 710-5-30	41	52	67	66	67	65	62	57	**73**	65
AS-AX-SQR 800-5-30	43	54	69	68	69	67	64	59	**75**	67
AS-AX-SQR 800-5-35	45	56	71	70	71	69	66	61	**77**	69
AS-AX-SQR 900-5-35	47	58	73	72	73	71	68	63	**79**	71
AS-AX-SQR 900-5-40	49	60	75	74	75	73	70	65	**81**	73
AS-AX-SQR 900-8-40	52	63	78	77	78	76	73	68	**84**	76
AS-AX-SQR 1000-5-40	49	60	75	74	75	73	70	65	**81**	73
AS-AX-SQR 1000-8-40	53	64	79	78	79	77	74	69	**85**	77
AS-AX-SQR 1000-8-45	54	65	80	79	80	78	75	70	**86**	78
AS-AX-SQR 1120-8-40	55	66	81	80	81	79	76	71	**87**	79
AS-AX-SQR 1120-8-45	57	68	83	82	83	81	78	73	**89**	81

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