B06 · INDUSTRIAL DUCT FANS

AS-AX-SD

Industrial Concealed Motor Axial Fans



AS-AX-SD concealed motor axial fans are preferred where the motor must not remain in the airflow and a belt-driven fan cannot be used. For fans that have to operate under continuous heat, optional mini cooling fans can be fitted to cool the motor.

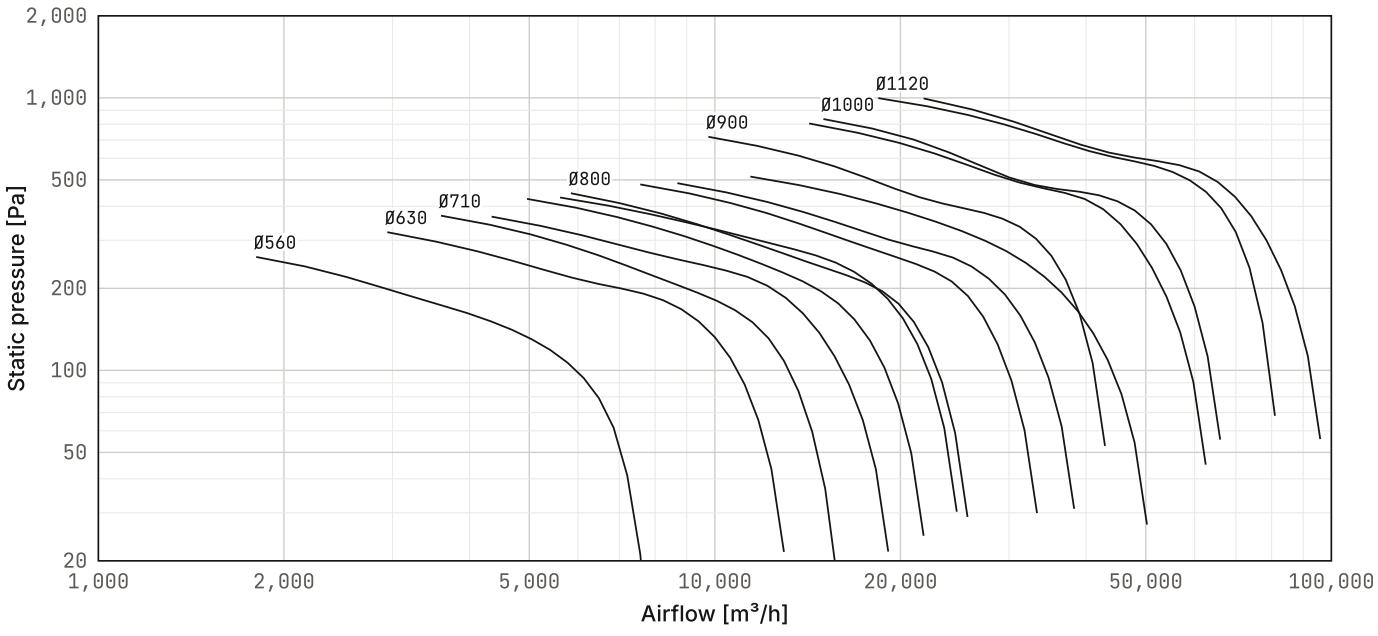
The casing is made of galvanized sheet steel with round connections. The fan can be installed in-line in a duct, on a wall or on a roof, with horizontal or vertical air discharge. Aluminium impellers with 5 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø560 to Ø1,120 mm.

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
100,308* m³/h	1,361* Pa	560 – 1,120 mm	0.75 – 30 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,443 – 1,483 min⁻¹	400 V 3~ · 50 Hz	50°C	IE3 standard · EC / IE4 on request · IP55 · F

Selection chart

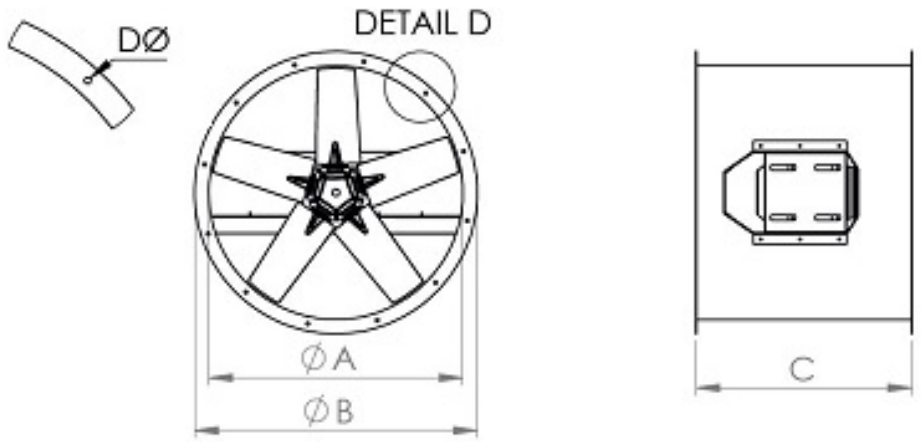
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-G 560-5-25 IE3	560	0.75	1,447	400 V 3~	1.8	8,291*	349*	75	50
AS-AX-G 630-5-30 IE3	630	1.1	1,447	400 V 3~	2.6	13,531*	441*	80	75
AS-AX-G 710-5-30 IE3	710	1.5	1,449	400 V 3~	3.2	19,983*	506*	83	90
AS-AX-SD 710-5-30 IE3	710	1.5	1,449	400 V 3~	3.2	16,538*	506*	83	65
AS-AX-G 800-5-30 IE3	800	2.2	1,452	400 V 3~	5.5	25,800	577	85	90
AS-AX-SD 800-5-30 IE3	800	2.2	1,452	400 V 3~	5.5	22,800	577	85	65
AS-AX-SD 800-5-35 IE3	800	3.0	1,445	400 V 3~	6.2	26,865*	618*	89	60
AS-AX-SD 900-5-35 IE3	900	4.0	1,455	400 V 3~	8.3	34,816*	650*	90	65
AS-AX-SD 900-5-40 IE3	900	5.5	1,443	400 V 3~	11.3	39,996*	667*	93	55
AS-AX-SD 900-8-40 IE3	900	15.0	1,477	400 V 3~	30.9	44,898*	978*	94	40
AS-AX-SD 1000-5-40 IE3	1,000	7.5	1,467	400 V 3~	15.2	52,509*	681*	94	50
AS-AX-SD 1000-8-40 IE3	1,000	18.5	1,474	400 V 3~	36.7	65,401*	1,105*	97	45
AS-AX-SD 1000-8-45 IE3	1,000	22.0	1,473	400 V 3~	45.0	69,003*	1,139*	99	40
AS-AX-SD 1120-8-40 IE3	1,120	22.0	1,483	400 V 3~	43.3	84,689*	1,321*	100	55
AS-AX-SD 1120-8-45 IE3	1,120	30.0	1,483	400 V 3~	59.0	100,308*	1,361*	102	45

Dimensions [mm]



Model	A	B	C	D	E
AS-AX-G 560-5-25	560	640	760	500	860
AS-AX-G 630-5-30	630	710	830	600	930
AS-AX-G 710-5-30	710	790	910	600	1,010
AS-AX-SD 710-5-30	710	790	600	11	12
AS-AX-G 800-5-30	800	880	1,000	600	1,100
AS-AX-SD 800-5-30	800	880	650	11	12
AS-AX-SD 800-5-35	800	880	650	11	12
AS-AX-SD 900-5-35	900	980	700	11	12
AS-AX-SD 900-5-40	900	980	700	11	12
AS-AX-SD 900-8-40	900	980	700	11	12
AS-AX-SD 1000-5-40	1,000	1,080	740	11	12
AS-AX-SD 1000-8-40	1,000	1,080	740	11	12
AS-AX-SD 1000-8-45	1,000	1,080	740	11	12

Dimensions [mm]

Model	A	B	C	D	E
AS-AX-SD 1120-8-40	1,120	1,200	800	11	12
AS-AX-SD 1120-8-45	1,120	1,200	800	11	12

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-G 560-5-25	51	62	77	76	77	75	72	67	**83**	75
AS-AX-G 630-5-30	56	67	82	81	82	80	77	72	**88**	80
AS-AX-G 710-5-30	59	70	85	84	85	83	80	75	**91**	83
AS-AX-SD 710-5-30	59	70	85	84	85	83	80	75	**91**	83
AS-AX-G 800-5-30	61	72	87	86	87	85	82	77	**93**	85
AS-AX-SD 800-5-30	61	72	87	86	87	85	82	77	**93**	85
AS-AX-SD 800-5-35	65	76	91	90	91	89	86	81	**97**	89
AS-AX-SD 900-5-35	66	77	92	91	92	90	87	82	**98**	90
AS-AX-SD 900-5-40	69	80	95	94	95	93	90	85	**101**	93
AS-AX-SD 900-8-40	70	81	96	95	96	94	91	86	**102**	94
AS-AX-SD 1000-5-40	70	81	96	95	96	94	91	86	**102**	94
AS-AX-SD 1000-8-40	73	84	99	98	99	97	94	89	**105**	97
AS-AX-SD 1000-8-45	75	86	101	100	101	99	96	91	**107**	99
AS-AX-SD 1120-8-40	76	87	102	101	102	100	97	92	**108**	100
AS-AX-SD 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.
FEG shown for models that meet ErP 2026 (EU 2024/1834).
15 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.