B05 · INDUSTRIAL DUCT FANS

AS-AX-PB

Industrial Belt-Driven Axial Fans with External Motor



AS-AX-PB axial fans have an external motor driving the impeller via belt and pulleys, for applications where the motor must not remain in the airflow. With the belt-pulley system, a fan speed other than the motor speed can be set during production on customer request.

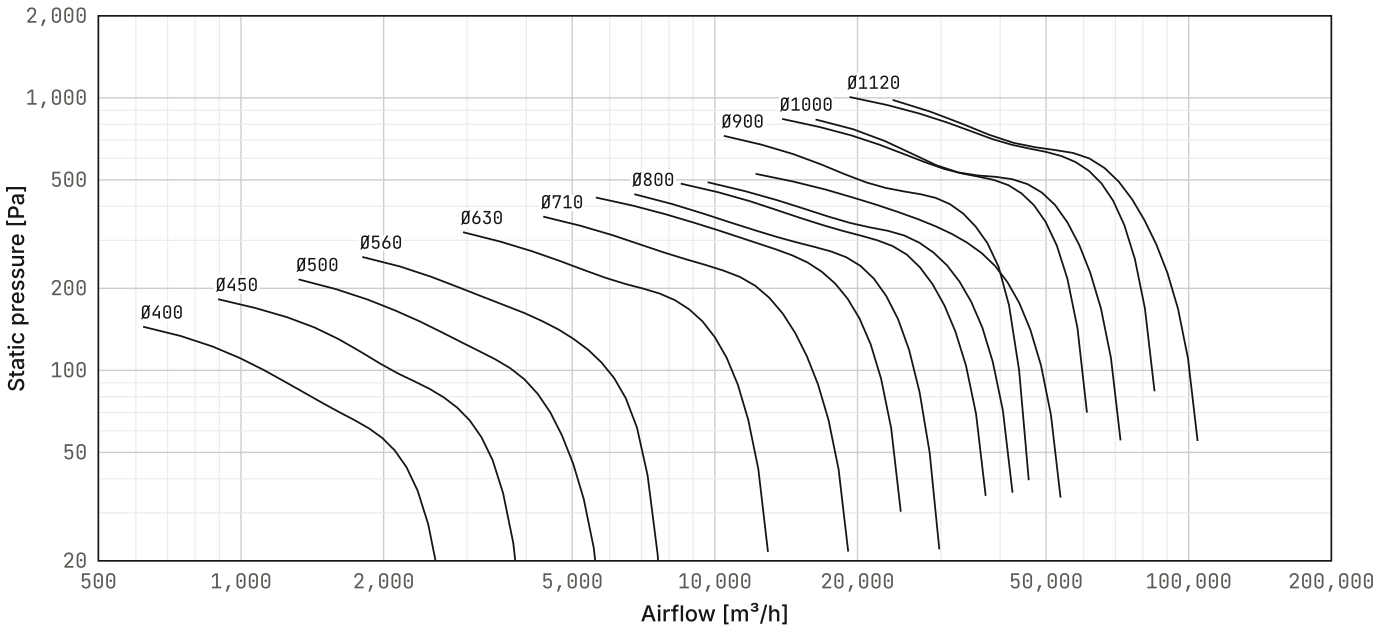
The casing is made of galvanized sheet steel with round connections, and a mounting bracket is supplied as standard. In-line, wall or roof installation is possible, with horizontal or vertical discharge. Aluminium impellers with 5 or 8 blades, balanced to ISO 1940-1, cover sizes from Ø400 to Ø1,120 mm.

The belt-driven 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 +120 °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	120°C	IE3 standard · EC / IE4 on request · IP55 · F

Selection chart

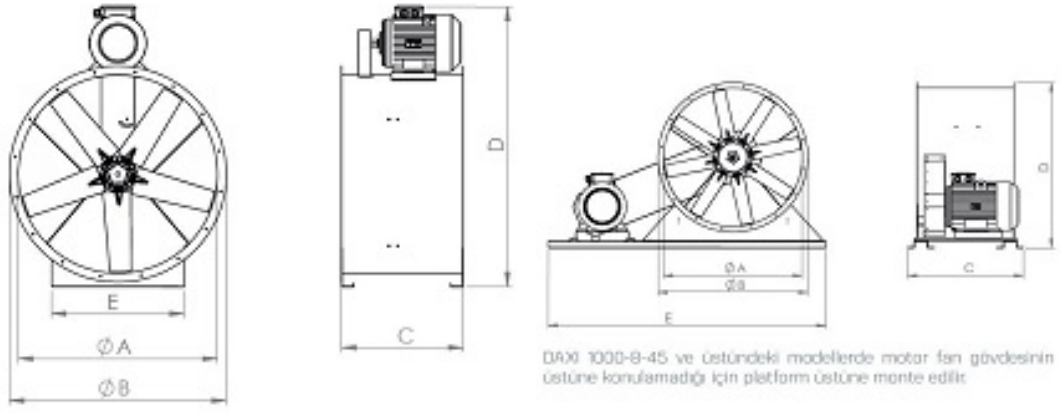
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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

Dimensions [mm]



DAXI 1000-8-45 ve üstündeki modellerde motor fan gövdesinin üstüne konulamadığı için platform üstüne monte edilir.

Model	A	B	C	D	E
AS-AX-PB 400-5-25	400	480	380	660	300
AS-AX-PB 450-5-25	450	530	400	720	330
AS-AX-PB 500-5-25	500	580	400	770	360
AS-AX-PB 560-5-25	560	640	430	840	400
AS-AX-PB 630-5-30	630	710	500	925	440
AS-AX-PB 710-5-30	710	790	500	1,005	480
AS-AX-PB 800-5-30	800	880	500	1,110	520
AS-AX-PB 800-5-35	800	880	500	1,110	520
AS-AX-PB 900-5-35	900	980	740	1,360	560
AS-AX-PB 900-5-40	900	980	740	1,360	560
AS-AX-PB 900-8-40	900	980	740	1,360	560
AS-AX-PB 1000-5-40	1,000	1,080	740	1,470	600

Dimensions [mm]

Model	A	B	C	D	E
AS-AX-PB 1000-8-40	1,000	1,080	740	1,470	600
AS-AX-PB 1000-8-45	1,000	1,080	840	1,200	2,000
AS-AX-PB 1120-8-40	1,120	1,200	1,000	1,300	2,000
AS-AX-PB 1120-8-45	1,120	1,200	1,000	1,300	2,000

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-PB 400-5-25	31	42	57	56	57	55	52	47	**63**	55
AS-AX-PB 450-5-25	45	56	71	70	71	69	66	61	**77**	69
AS-AX-PB 500-5-25	48	59	74	73	74	72	69	64	**80**	72
AS-AX-PB 560-5-25	51	62	77	76	77	75	72	67	**83**	75
AS-AX-PB 630-5-30	56	67	82	81	82	80	77	72	**88**	80
AS-AX-PB 710-5-30	59	70	85	84	85	83	80	75	**91**	83
AS-AX-PB 800-5-30	61	72	87	86	87	85	82	77	**93**	85
AS-AX-PB 800-5-35	65	76	91	90	91	89	86	81	**97**	89
AS-AX-PB 900-5-35	66	77	92	91	92	90	87	82	**98**	90
AS-AX-PB 900-5-40	69	80	95	94	95	93	90	85	**101**	93
AS-AX-PB 900-8-40	70	81	96	95	96	94	91	86	**102**	94
AS-AX-PB 1000-5-40	70	81	96	95	96	94	91	86	**102**	94
AS-AX-PB 1000-8-40	73	84	99	98	99	97	94	89	**105**	97
AS-AX-PB 1000-8-45	75	86	101	100	101	99	96	91	**107**	99
AS-AX-PB 1120-8-40	76	87	102	101	102	100	97	92	**108**	100
AS-AX-PB 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.