F07 · CENTRIFUGAL & MIXED-FLOW DUCT FANS

AS-AERO

Commercial Mixed-Flow Plastic Fans

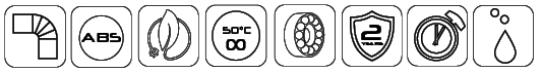


AS-AERO mixed-flow fans with a plastic casing are used in ducted ventilation systems for commercial applications. Their mixed-flow impeller is driven directly by the motor, and the fan is installed in-line in round ducts.

Both the casing and the mixed-flow impeller are made of plastic, with round duct connections for in-line installation. Air discharge can be horizontal or vertical. The impellers are balanced to ISO 1940-1 and cover sizes from Ø100 to Ø315 mm.

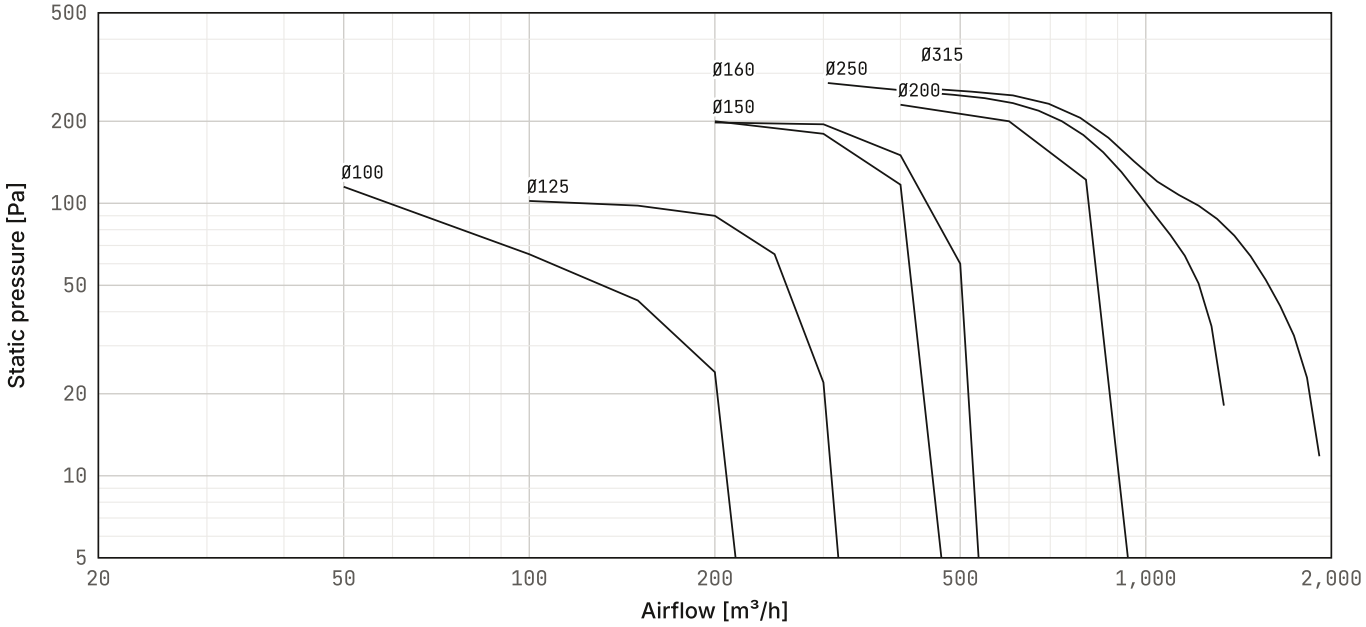
The direct-drive, 2- or 4-pole external-rotor motors run on a 230 V single-phase supply, with IP44 protection and class F insulation, rated for S1 and S2 duty. Versions for 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
2,000 m³/h	378 Pa	100 – 315 mm	0.05 – 0.48 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
2,460 – 2,850 min⁻¹	230 V 1~ · 50 Hz	50°C	IP44 · F



Selection chart

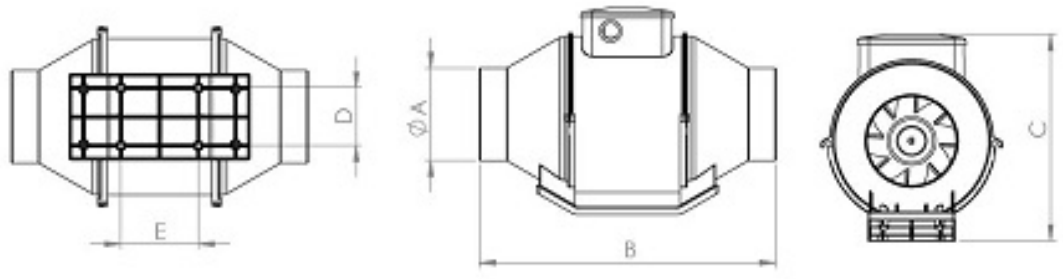
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor.



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-AERO 100	100	0.05	2,460	230 V 1~	0.5	234	165	31
AS-AERO 125	125	0.06	2,560	230 V 1~	0.6	337	170	32
AS-AERO 150	150	0.08	2,490	230 V 1~	0.6	504	275	33
AS-AERO 160	160	0.08	2,490	230 V 1~	1.1	560	275	33
AS-AERO 200	200	0.11	2,850	230 V 1~	1.6	1,012	302	36
AS-AERO 250	250	0.28	2,460	230 V 1~	0.8	1,400	350	38
AS-AERO 315	315	0.48	2,476	230 V 1~	0.9	2,000	378	42

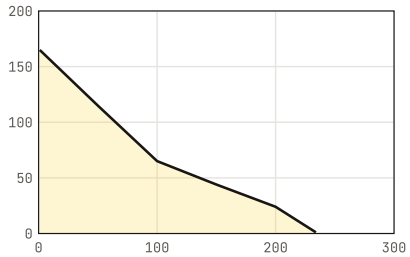
Dimensions [mm]



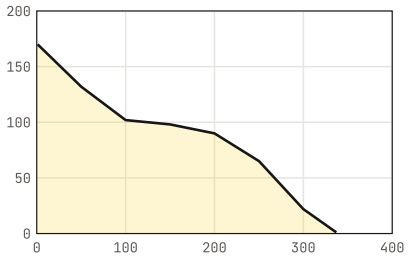
Model	A	B	C	D	E
AS-AERO 100	96	307	215	60	80
AS-AERO 125	121	260	215	60	80
AS-AERO 150	146	291	242	60	80
AS-AERO 160	156	271	242	60	80
AS-AERO 200	191	300	263	94	100
AS-AERO 250	246	393	325	110	140
AS-AERO 315	310	450	420	175	180

Performance curves Static pressure [Pa] vs airflow [m³/h], standard motor, 1.204 kg/m³.

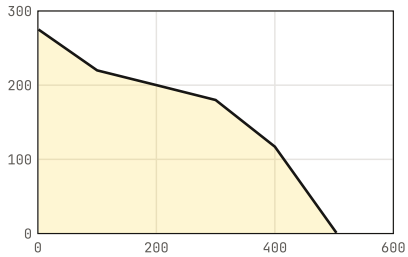
AS-AERO 100 2,460 min⁻¹ · 0.05 kW



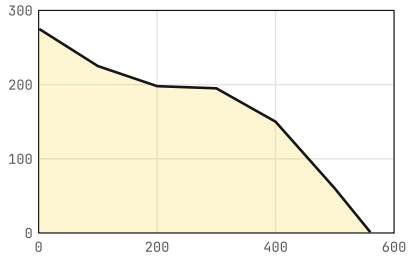
AS-AERO 125 2,560 min⁻¹ · 0.06 kW



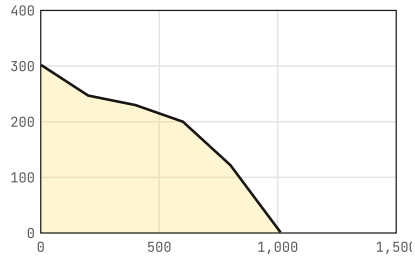
AS-AERO 150 2,490 min⁻¹ · 0.08 kW



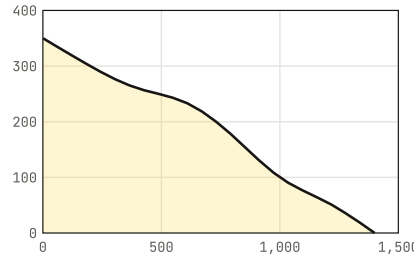
AS-AERO 160 2,490 min⁻¹ · 0.08 kW



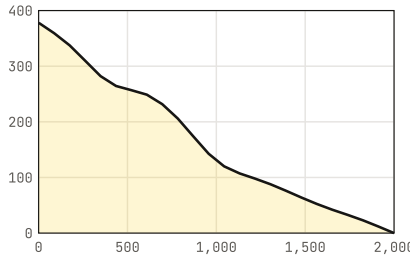
AS-AERO 200 2,850 min⁻¹ · 0.11 kW



AS-AERO 250 2,460 min⁻¹ · 0.28 kW



AS-AERO 315 2,476 min⁻¹ · 0.48 kW



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-AERO 100	17	28	43	42	43	41	38	33	**49**	31
AS-AERO 125	18	29	44	43	44	42	39	34	**50**	32
AS-AERO 150	19	30	45	44	45	43	40	35	**51**	33
AS-AERO 160	19	30	45	44	45	43	40	35	**51**	33
AS-AERO 200	22	33	48	47	48	46	43	38	**54**	36
AS-AERO 250	24	35	50	49	50	48	45	40	**56**	38
AS-AERO 315	28	39	54	53	54	52	49	44	**60**	42

Notes

Sound pressure level at 1 m (free field) from the AEROMIS product database.
7 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.