J08 · RESIDENTIAL BATHROOM FANS

AS-REFINED

Residential Slim Face Ventilation Fans



AS-REFINED slim face ventilation fans are bathroom exhaust fans with an ultra-thin face panel. Their ball bearing motor operates for a long time without extra maintenance.

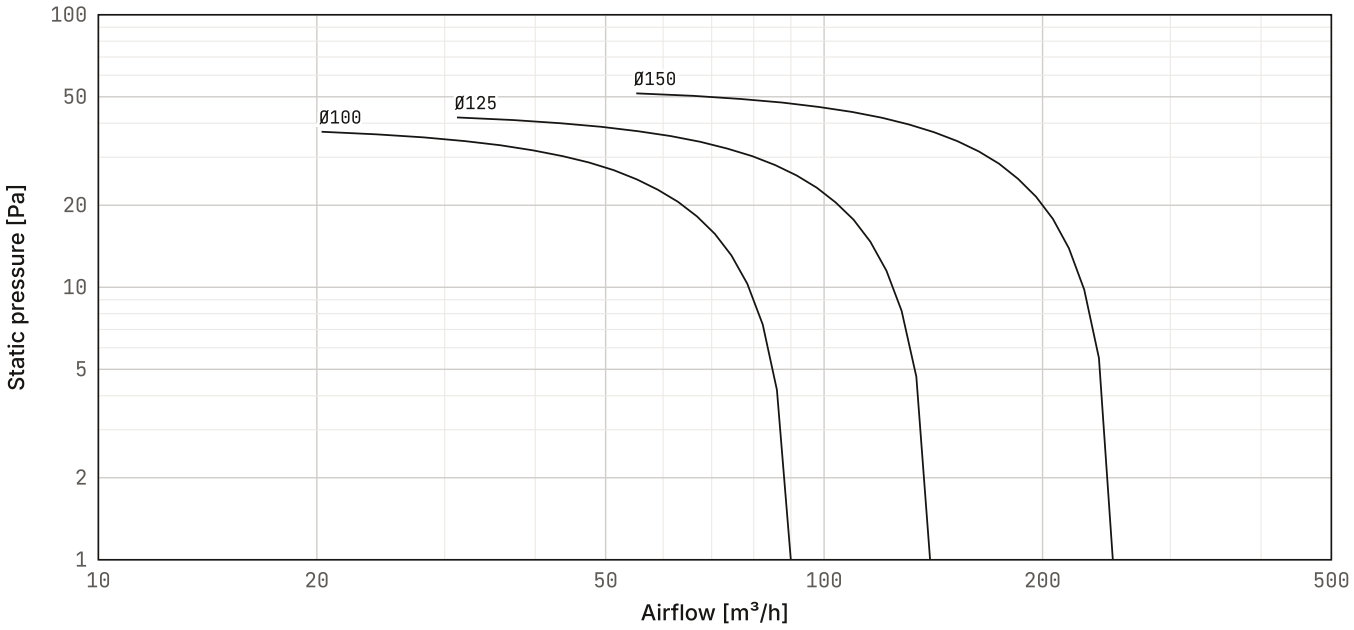
The fans have a round duct connection and are available in Ø100, Ø125 and Ø150 mm sizes, with a plastic impeller. Air discharge can be horizontal or vertical.

The ball bearing motors do not require a separate bearing housing and need no extra maintenance. The direct-drive fans use 2-pole synchronous motors with class F insulation and IP44 protection, totally enclosed fan-cooled (TEFC) and rated for S1 and S2 duty. Supply is 230 V single-phase; versions for 50 Hz and 60 Hz are available. The motors are outside the scope of IE efficiency classification. Operating air temperature: −20 °C to +40 °C. Standard: IEC CB 60335-2-80.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
250 m³/h	54 Pa	100 – 150 mm	0.01 – 0.02 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
2,700 min⁻¹	230 V 1~ · 50 Hz	40°C	IP44 · F

Selection chart

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



Technical data 50 Hz

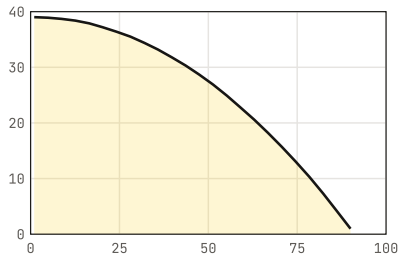
Model	Ø [mm]	Motor [kW]	Speed [min⁻¹]	Supply	I [A]	Max. airflow [m³/h]	Max. pressure [Pa]	LpA 1 m [dB(A)]
AS-REFINED 100	100	0.01	2,700	230 V 1~	0.1	90	39	33
AS-REFINED 125	125	0.02	2,700	230 V 1~	0.1	140	44	35
AS-REFINED 150	150	0.02	2,700	230 V 1~	0.1	250	54	36

Dimensions [mm]

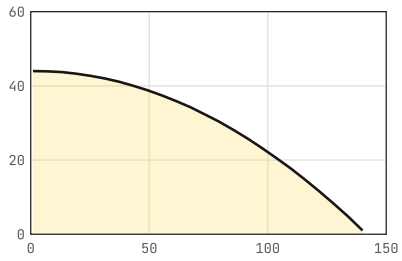
Model	A	B	C	D	E	F
AS-REFINED 100	160	140	100	9	76	7
AS-REFINED 125	180	160	125	9	82	9
AS-REFINED 150	205	187	150	9	86	10

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

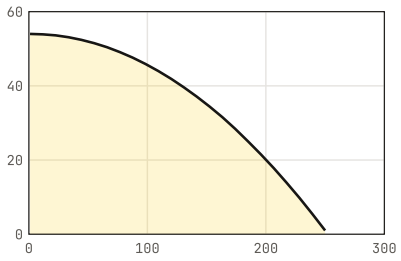
AS-REFINED 100 2,700 min⁻¹ · 0.01 kW



AS-REFINED 125 2,700 min⁻¹ · 0.02 kW



AS-REFINED 150 2,700 min⁻¹ · 0.02 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-REFINED 100	19	30	45	44	45	43	40	35	**51**	33
AS-REFINED 125	21	32	47	46	47	45	42	37	**53**	35
AS-REFINED 150	22	33	48	47	48	46	43	38	**54**	36

Notes

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