C06 · ROOF FANS

AS-EXR

Commercial Roof Radial Fans



AS-EXR roof fans suit ventilation projects that require roof mounting, with easy installation, a long-life motor and an efficient impeller.

The casing is made of galvanized sheet steel with an electrostatic powder coating. The fans are designed for roof installation, with round or rectangular connections. Backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø190 to Ø560 mm.

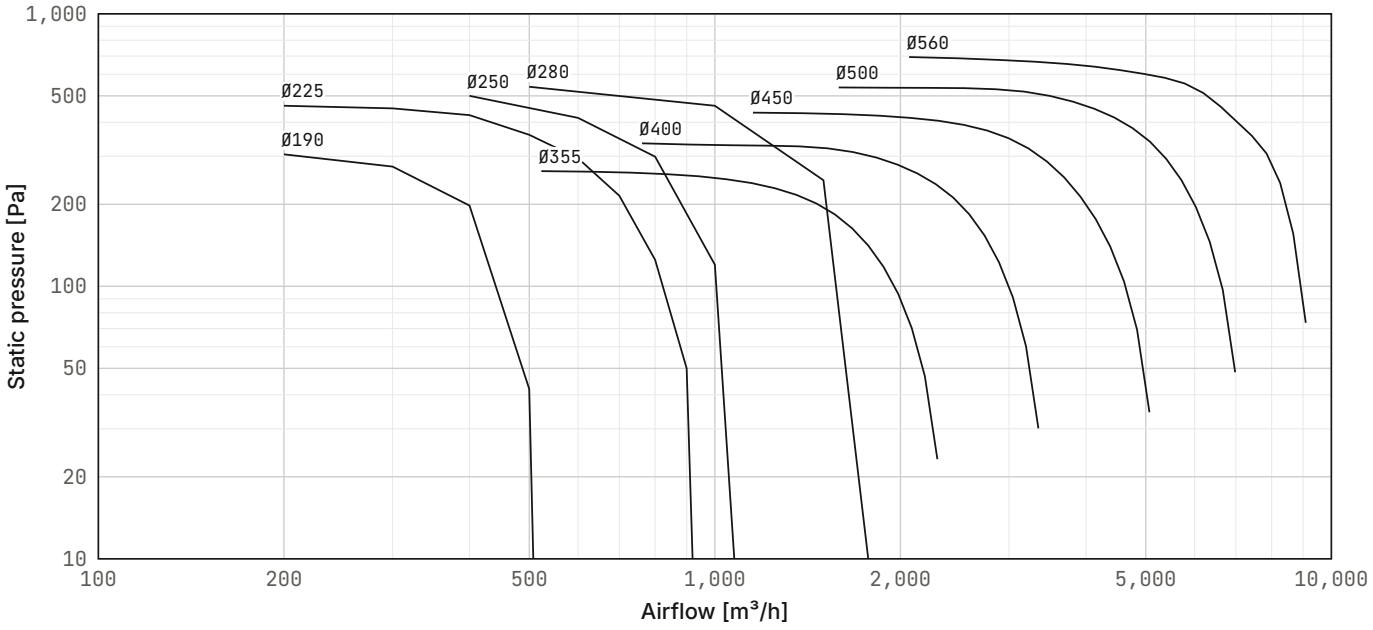
The external-rotor motors have IP44 protection and class F insulation, come in 2- and 4-pole versions for single-phase and three-phase supply and are rated for S1 and S2 duty. Versions for 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
9,500 m³/h	700 Pa	190 – 560 mm	0.08 – 1.5* kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,360 – 2,685 min⁻¹	230 V 1~ · 380 V 3~ · 50 Hz	50°C	External rotor standard · IP44 · F



Selection chart

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



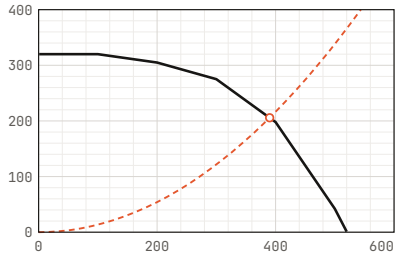
Technical data 50 Hz

Model	Ø [mm]	Motor [kW]	Speed [min⁻¹]	Supply	I [A]	Max. airflow [m³/h]	Max. pressure [Pa]	LpA 1 m [dB(A)]	FEG
AS-EXR 190 External rotor	190	0.08*	2,600	230 V 1~	0.5	520	320	50	–
AS-EXR 225 External rotor	225	0.10*	2,675	230 V 1~	0.6	950	500	50	–
AS-EXR 250 External rotor	250	0.16*	2,685	230 V 1~	0.6	1,150	580	55	–
AS-EXR 280 External rotor	280	0.18*	2,615	230 V 1~	1.1	2,000	580	60	–
AS-EXR 355 External rotor	355	0.48*	1,360	230 V 1~	0.9	2,400	265	52	95
AS-EXR 400 External rotor	400	0.38*	1,362	230 V 1~	1.1	3,500	340	55	65
AS-EXR 450 External rotor	450	0.69*	1,367	230 V 1~	0.8	5,300	435	60	65
AS-EXR 500 External rotor	500	0.83*	1,364	230 V 1~	1.5	7,300	540	63	95
AS-EXR 560 External rotor	560	1.5*	1,369	380 V 3~	1.7	9,500	700	70	90

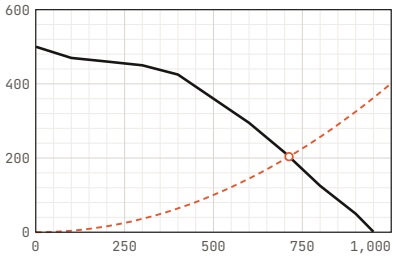
Performance curves

Static pressure [Pa] – airflow [m³/h], 1.204 kg/m³ · red dashed: system curve through the optimum point

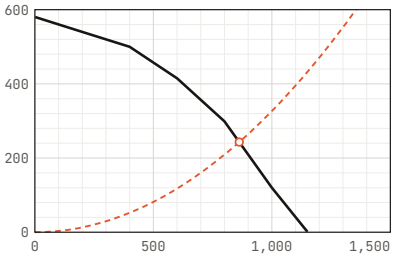
AS-EXR 190 2,600 min⁻¹ · 0.08* kW



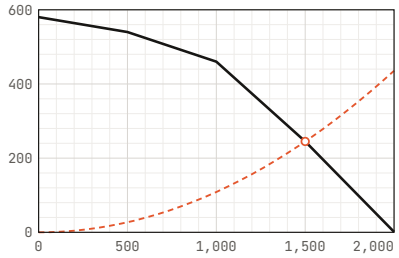
AS-EXR 225 2,675 min⁻¹ · 0.10* kW



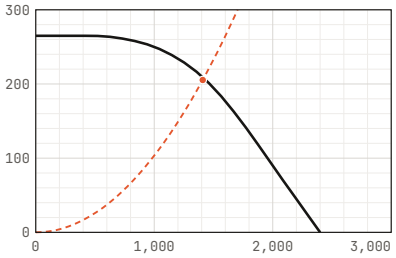
AS-EXR 250 2,685 min⁻¹ · 0.16* kW



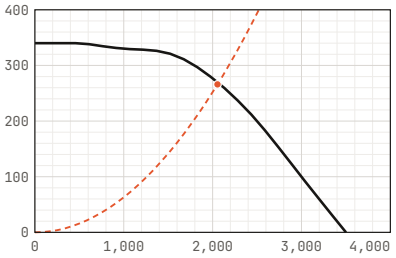
AS-EXR 280 2,615 min⁻¹ · 0.18* kW



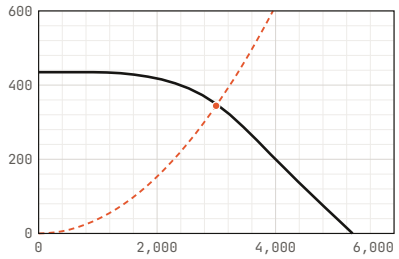
AS-EXR 355 1,360 min⁻¹ · 0.48* kW



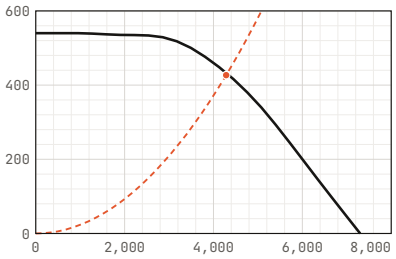
AS-EXR 400 1,362 min⁻¹ · 0.38* kW



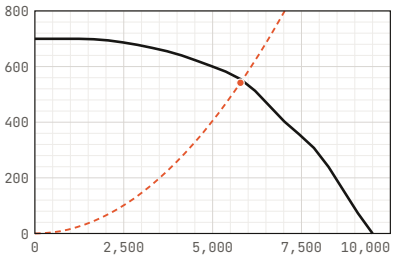
AS-EXR 450 1,367 min⁻¹ · 0.69* kW



AS-EXR 500 1,364 min⁻¹ · 0.83* kW

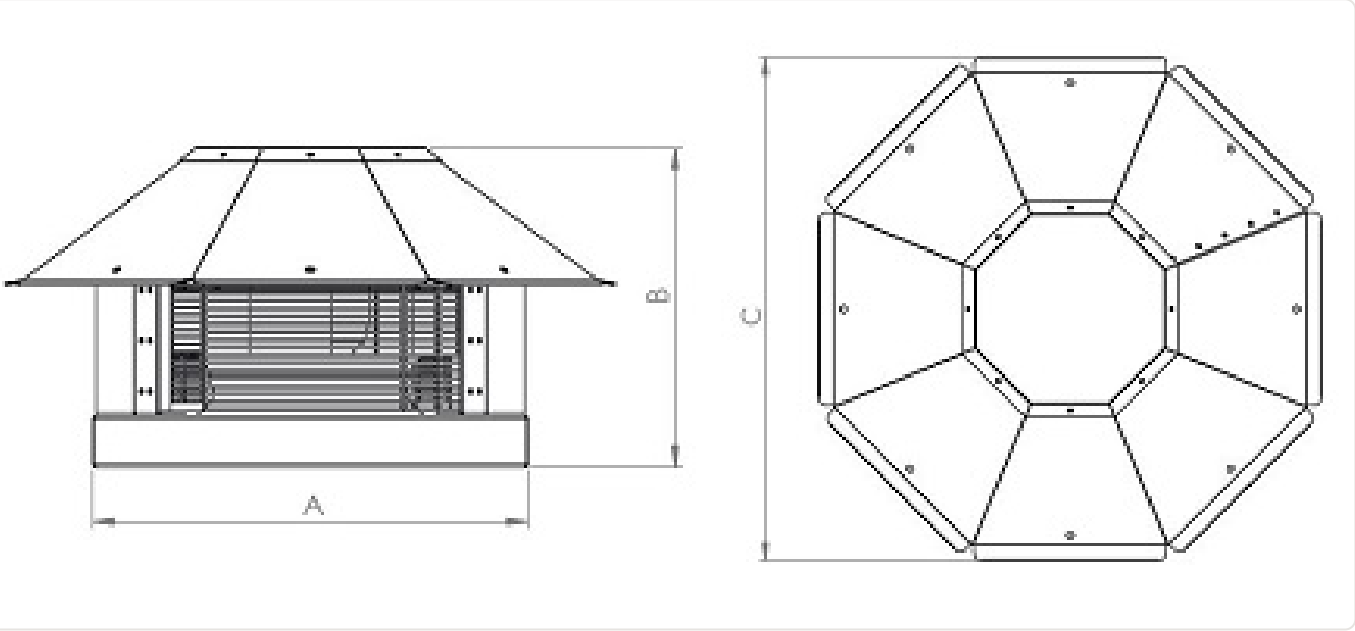


AS-EXR 560 1,369 min⁻¹ · 1.5* kW



Dimensions [mm]

Model	A	B	C
AS-EXR 190	250	220	340
AS-EXR 225	336	247	471
AS-EXR 250	355	252	500
AS-EXR 280	370	256	523
AS-EXR 355	450	337	640
AS-EXR 400	450	367	640
AS-EXR 450	550	444	820
AS-EXR 500	600	500	860
AS-EXR 560	630	510	920



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-EXR 190	36	47	62	61	62	60	57	52	**68**	50
AS-EXR 225	36	47	62	61	62	60	57	52	**68**	50
AS-EXR 250	41	52	67	66	67	65	62	57	**73**	55
AS-EXR 280	46	57	72	71	72	70	67	62	**78**	60
AS-EXR 355	38	49	64	63	64	62	59	54	**70**	52
AS-EXR 400	41	52	67	66	67	65	62	57	**73**	55
AS-EXR 450	46	57	72	71	72	70	67	62	**78**	60
AS-EXR 500	49	60	75	74	75	73	70	65	**81**	63
AS-EXR 560	56	67	82	81	82	80	77	72	**88**	70

Notes

* Motor power is an estimate (not a nameplate value).

Red dashed line: system curve through the best efficiency point (filled dot, database ErP data). Where the database has no BEP, the point is taken at 75 % of the maximum airflow on the fan curve (open dot, estimate).

Sound pressure level at 1 m (free field) from the AEROMIS product database.

FEG shown for models that meet ErP 2026 (EU 2024/1834).

9 model(s) also available for 60 Hz — see the fan selector.

Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.