C010 · ROOF FANS

AS-EXR-VI

Commercial External-Motor Roof Radial Fans – Vertical



AS-EXR-VI roof fans are vertical discharge radial fans with the motor positioned outside the airflow. This protects the motor from dust, oil and other harmful substances in the air and ensures continuous ventilation. Thanks to vertical discharge, the fan is not affected when its surroundings are enclosed.

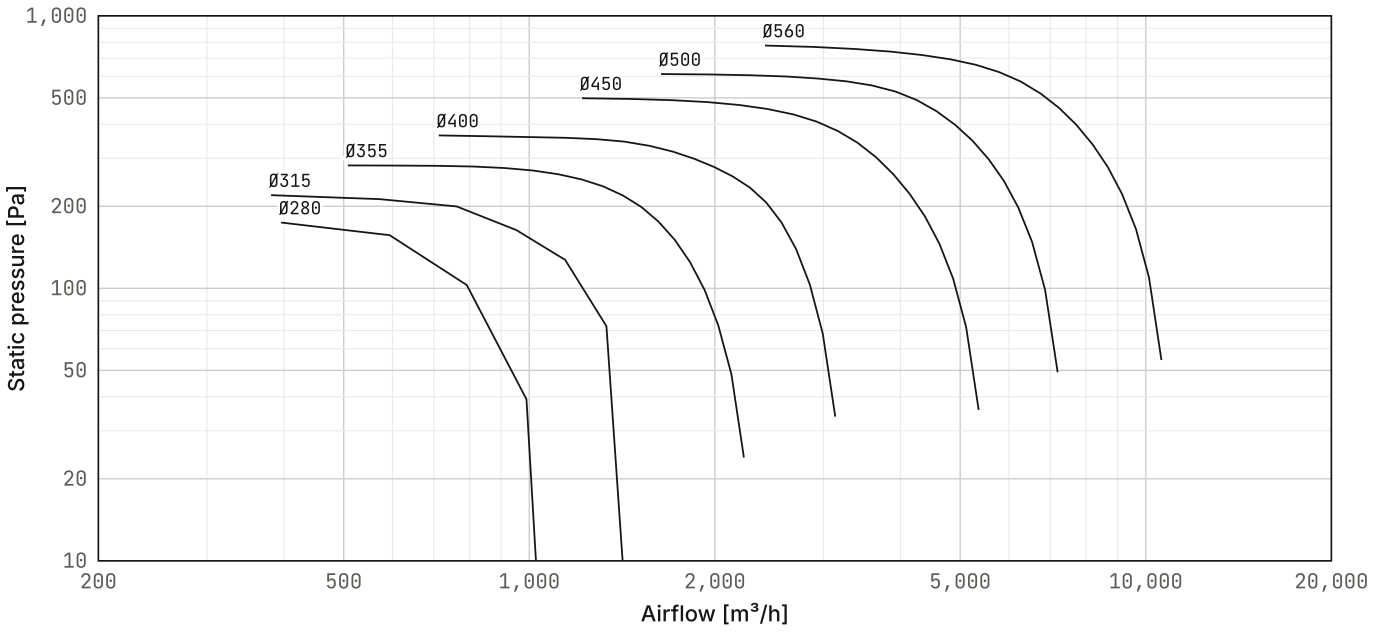
The casing is made of galvanized sheet steel with an electrostatic powder coating. The fans are roof-mounted, with round or rectangular connections and vertical air discharge. Backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø280 to Ø560 mm.

The direct-drive, 4-pole WAT asynchronous motors are totally enclosed and fan-cooled (TEFC), with IP55 protection and class F insulation, for continuous S1 duty. IE3 efficiency is standard; IE4 and EC motors are available on request. 50 Hz and 60 Hz versions 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
11,086* m³/h	784* Pa	280 – 560 mm	0.25 – 1.5 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,400 – 1,449 min⁻¹	400 V 3~ · 50 Hz	50°C	IE3 standard · EC / IE4 on request · IP55 · F

Selection chart

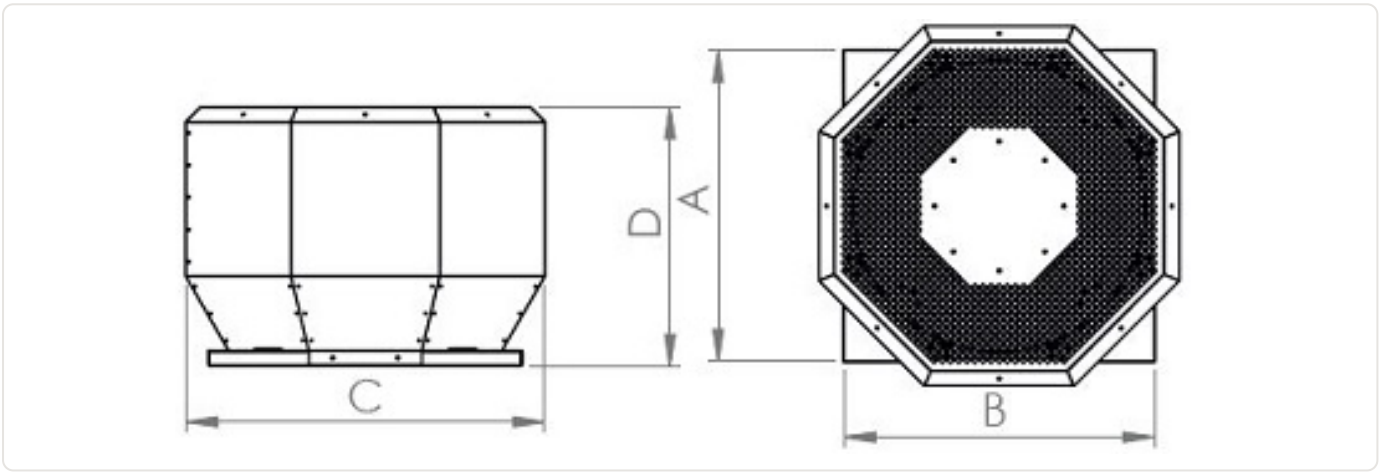
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-EXR-VI 280 IE3	280	0.25	1,435	400 V 3~	0.7	1,089*	181*	63	–
AS-EXR-VI 315 IE3	315	0.25	1,400	400 V 3~	0.8	1,525*	223*	64	–
AS-EXR-VI 355 IE3	355	0.37	1,428	400 V 3~	1.1	2,330*	287*	58	–
AS-EXR-VI 400 IE3	400	0.55	1,425	400 V 3~	1.4	3,278*	367*	60	–
AS-EXR-VI 450 IE3	450	0.75	1,447	400 V 3~	1.8	5,600	500	62	65
AS-EXR-VI 500 IE3	500	1.1	1,447	400 V 3~	2.6	7,522*	612*	64	80
AS-EXR-VI 560 IE3	560	1.5	1,449	400 V 3~	3.2	11,086*	784*	67	100

Dimensions [mm]

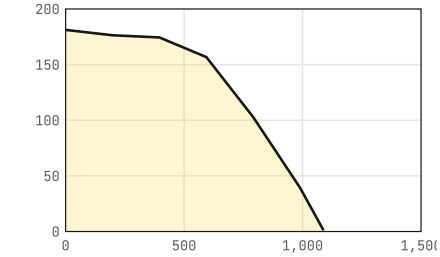


Model	A	B	C	D
AS-EXR-VI 280	450	450	552	405
AS-EXR-VI 315	500	500	602	440
AS-EXR-VI 355	550	550	652	478
AS-EXR-VI 400	600	600	702	517
AS-EXR-VI 450	650	650	752	543
AS-EXR-VI 500	700	700	802	610
AS-EXR-VI 560	750	750	852	642

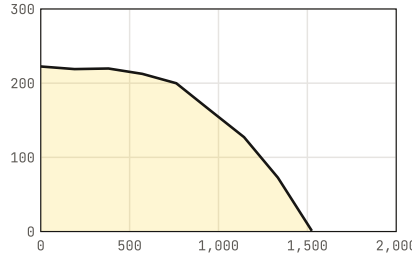
Performance curves

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

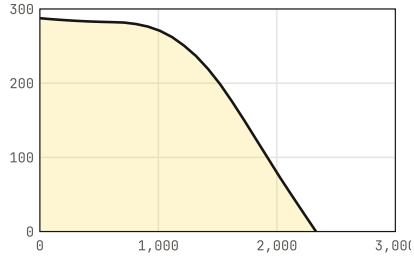
AS-EXR-VI 280 — 1,435 min⁻¹ · 0.25 kW



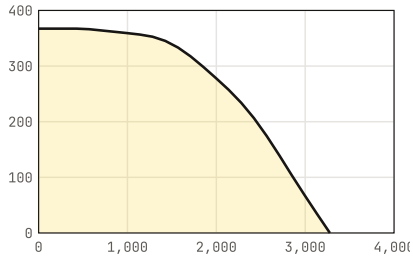
AS-EXR-VI 315 — 1,400 min⁻¹ · 0.25 kW



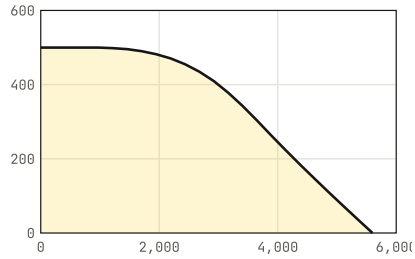
AS-EXR-VI 355 — 1,428 min⁻¹ · 0.37 kW



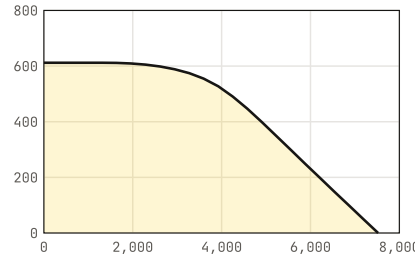
AS-EXR-VI 400 1,425 min⁻¹ · 0.55 kW



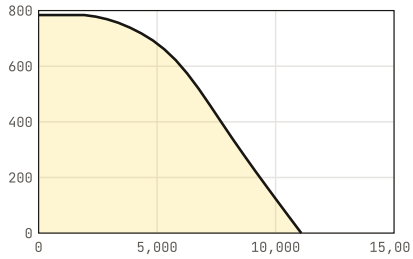
AS-EXR-VI 450 1,447 min⁻¹ · 0.75 kW



AS-EXR-VI 500 1,447 min⁻¹ · 1.1 kW



AS-EXR-VI 560 1,449 min⁻¹ · 1.5 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-EXR-VI 280	49	60	75	74	75	73	70	65	**81**	63
AS-EXR-VI 315	50	61	76	75	76	74	71	66	**82**	64
AS-EXR-VI 355	44	55	70	69	70	68	65	60	**76**	58
AS-EXR-VI 400	46	57	72	71	72	70	67	62	**78**	60
AS-EXR-VI 450	48	59	74	73	74	72	69	64	**80**	62
AS-EXR-VI 500	50	61	76	75	76	74	71	66	**82**	64
AS-EXR-VI 560	53	64	79	78	79	77	74	69	**85**	67

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).
7 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.