C09 · ROOF FANS

AS-EXR-D

Commercial External-Motor Roof Radial Fans – Horizontal



AS-EXR-D roof fans are horizontal 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.

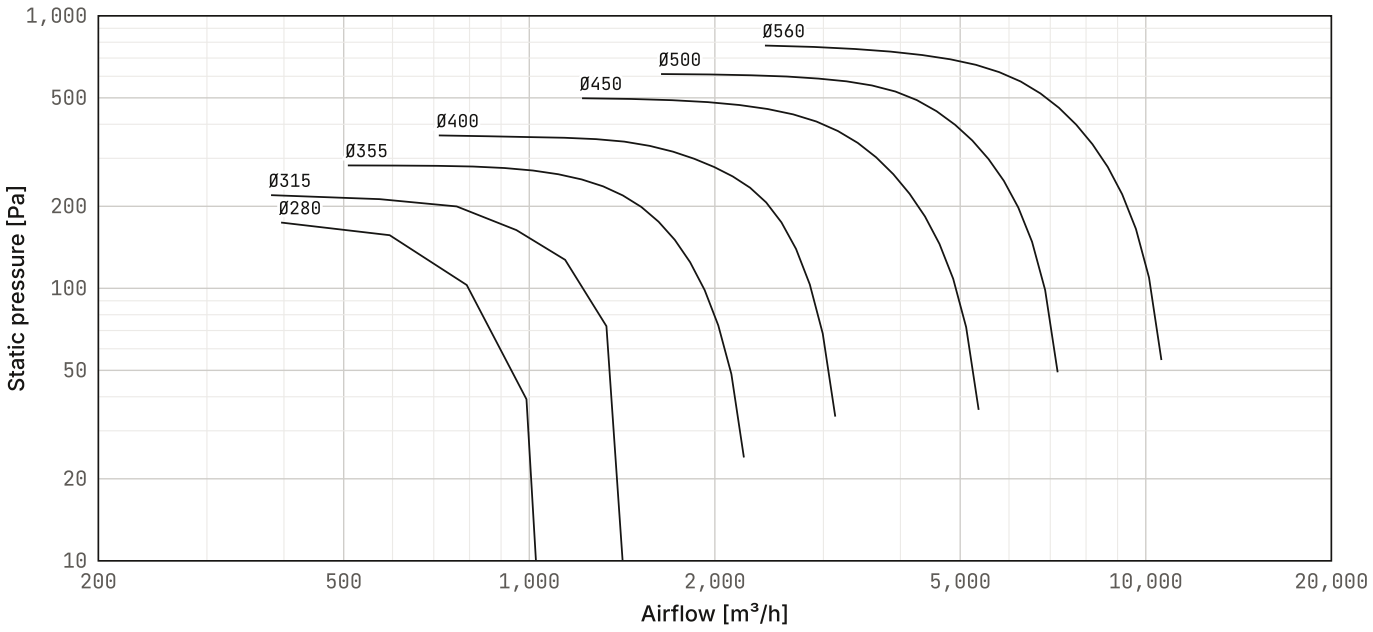
The casing is made of galvanized sheet steel with an electrostatic powder coating. The fans are roof-mounted, with round or rectangular connections and horizontal air discharge. Backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø280 to Ø560 mm.

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

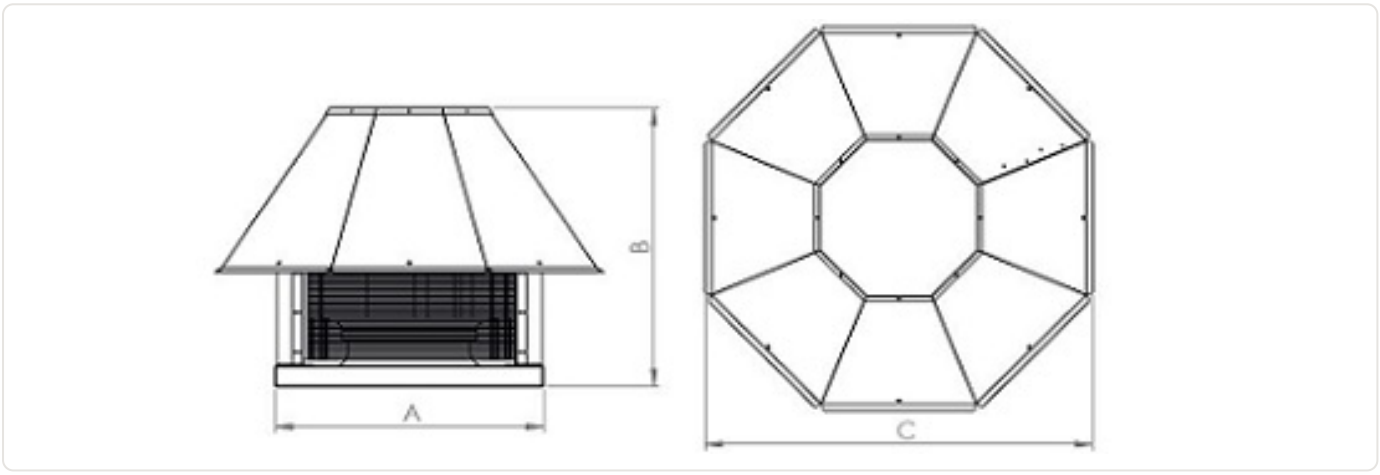
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-D 280 IE3	280	0.25	1,435	400 V 3~	0.7	1,089*	181*	53	–
AS-EXR-D 315 IE3	315	0.25	1,400	400 V 3~	0.8	1,525*	223*	52	–
AS-EXR-D 355 IE3	355	0.37	1,428	400 V 3~	1.1	2,330*	287*	55	–
AS-EXR-D 400 IE3	400	0.55	1,425	400 V 3~	1.4	3,278*	367*	60	–
AS-EXR-D 450 IE3	450	0.75	1,447	400 V 3~	1.8	5,600	500	62	65
AS-EXR-D 500 IE3	500	1.1	1,447	400 V 3~	2.6	7,522*	612*	64	80
AS-EXR-D 560 IE3	560	1.5	1,449	400 V 3~	3.2	11,086*	784*	66	100

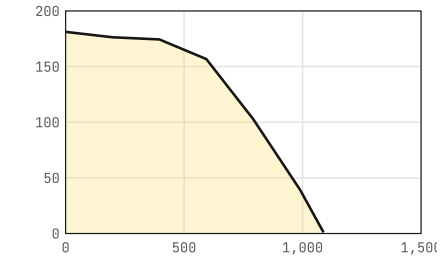
Dimensions [mm]



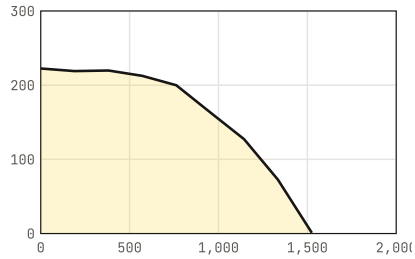
Model	A	B	C
AS-EXR-D 280	366	412	536
AS-EXR-D 315	400	460	580
AS-EXR-D 355	450	466	630
AS-EXR-D 400	500	526	723
AS-EXR-D 450	550	562	820
AS-EXR-D 500	600	614	900
AS-EXR-D 560	650	620	973

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

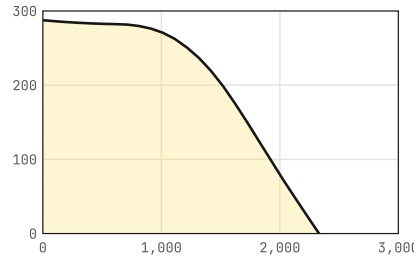
AS-EXR-D 280 1,435 min⁻¹ · 0.25 kW



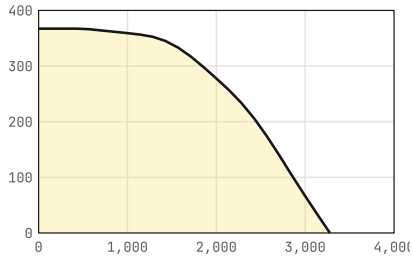
AS-EXR-D 315 1,400 min⁻¹ · 0.25 kW



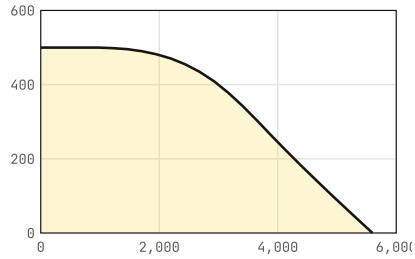
AS-EXR-D 355 1,428 min⁻¹ · 0.37 kW



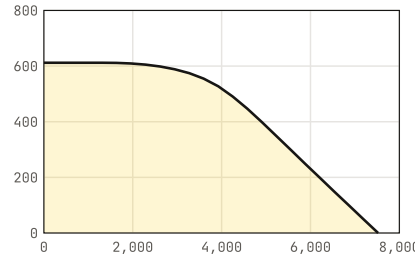
AS-EXR-D 400 1,425 min⁻¹ · 0.55 kW



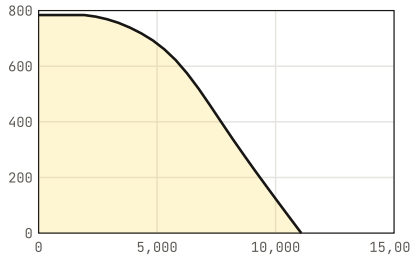
AS-EXR-D 450 1,447 min⁻¹ · 0.75 kW



AS-EXR-D 500 1,447 min⁻¹ · 1.1 kW



AS-EXR-D 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-D 280	39	50	65	64	65	63	60	55	**71**	53
AS-EXR-D 315	38	49	64	63	64	62	59	54	**70**	52
AS-EXR-D 355	41	52	67	66	67	65	62	57	**73**	55
AS-EXR-D 400	46	57	72	71	72	70	67	62	**78**	60
AS-EXR-D 450	48	59	74	73	74	72	69	64	**80**	62
AS-EXR-D 500	50	61	76	75	76	74	71	66	**82**	64
AS-EXR-D 560	52	63	78	77	78	76	73	68	**84**	66

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.