F06 · CENTRIFUGAL & MIXED-FLOW DUCT FANS

AS-RDF-EX

Commercial External-Motor Rectangular Duct Centrifugal Fans



AS-RDF-EX fans mount directly onto rectangular ducts and are used for space ventilation with low energy consumption. The motor sits outside the airflow, so it is not affected by foreign particles in the air, and an access panel makes cleaning easy when needed.

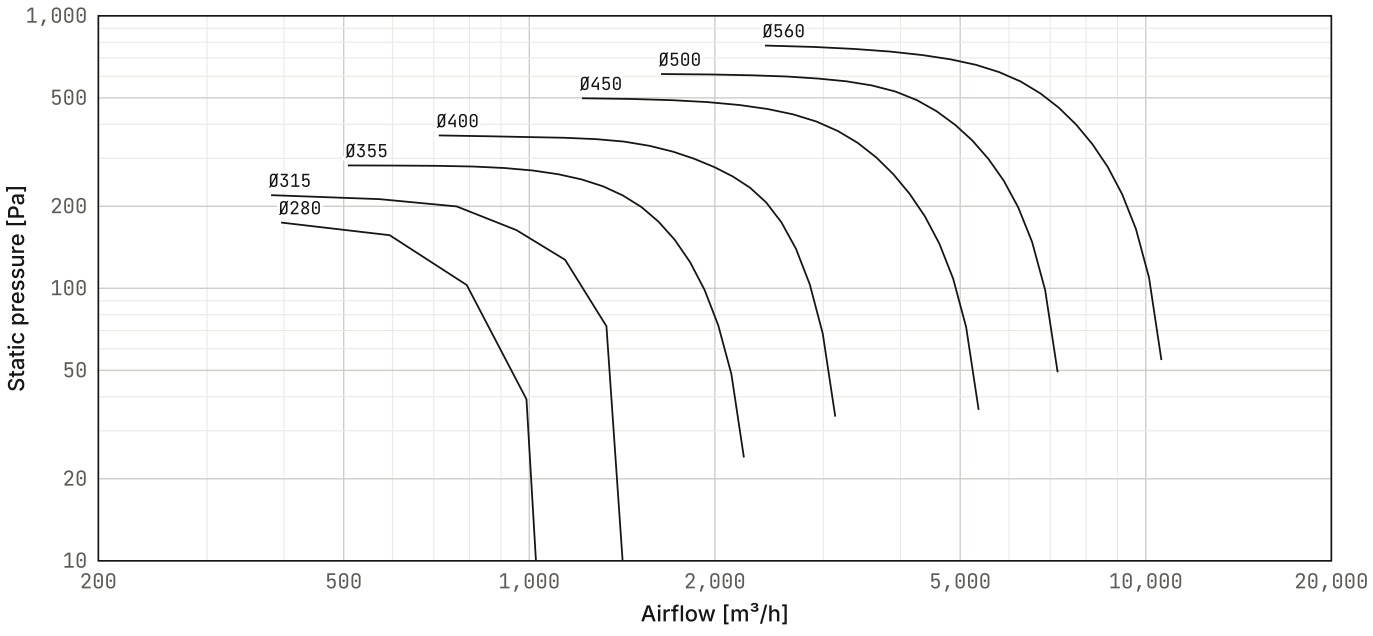
The casing is made of galvanized sheet steel with rectangular duct connections for in-line installation. Air discharge can be horizontal or vertical. Backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø280 to Ø560 mm.

The direct-drive, totally enclosed fan-cooled (TEFC) asynchronous motors are 4-pole WAT motors with IP55 protection and class F insulation, rated for continuous S1 duty. IE3 efficiency is standard; IE4 and EC motors are available on request. Versions for 400 V 3~ 50 Hz and 380 V 3~ 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
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

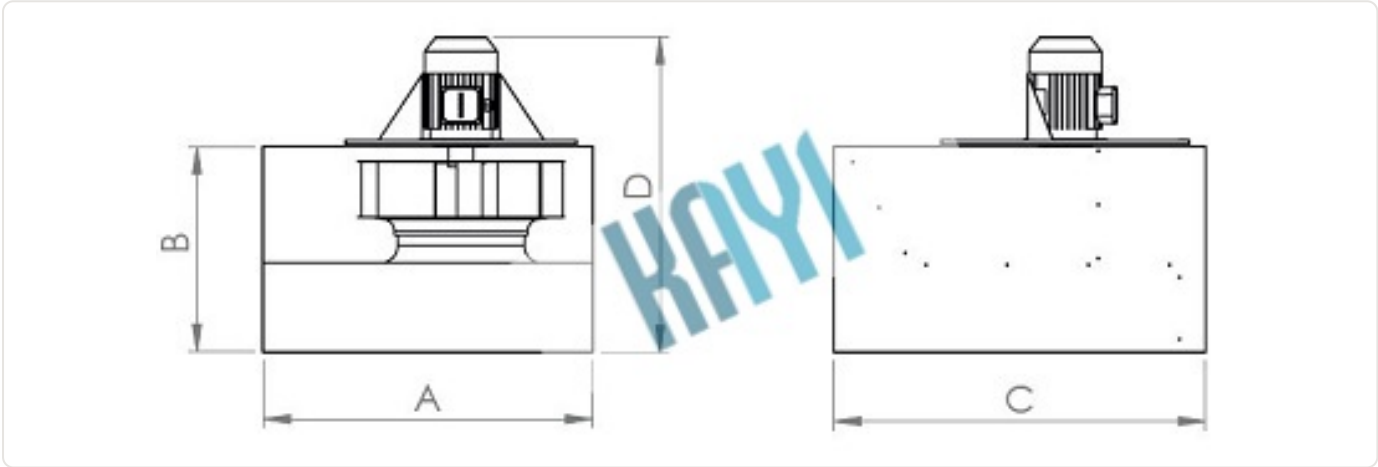
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor. *



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-RDF-EX 280 IE3	280	0.25	1,435	400 V 3~	0.7	1,089*	181*	58	–
AS-RDF-EX 315 IE3	315	0.25	1,400	400 V 3~	0.8	1,525*	223*	58	–
AS-RDF-EX 355 IE3	355	0.37	1,428	400 V 3~	1.1	2,330*	287*	60	–
AS-RDF-EX 400 IE3	400	0.55	1,425	400 V 3~	1.4	3,278*	367*	61	–
AS-RDF-EX 450 IE3	450	0.75	1,447	400 V 3~	1.8	5,600	500	63	65
AS-RDF-EX 500 IE3	500	1.1	1,447	400 V 3~	2.6	7,522*	612*	67	80
AS-RDF-EX 560 IE3	560	1.5	1,449	400 V 3~	3.2	11,086*	784*	70	100

Dimensions [mm]

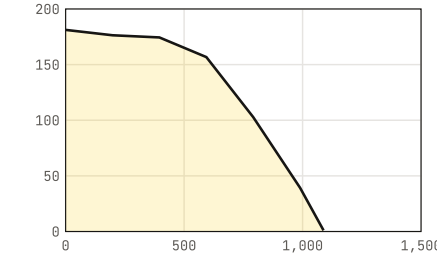


Model	A	B	C	D
AS-RDF-EX 280	500	250	565	450
AS-RDF-EX 315	500	250	565	476
AS-RDF-EX 355	600	300	760	526
AS-RDF-EX 400	600	350	750	590
AS-RDF-EX 450	700	400	790	641
AS-RDF-EX 500	800	500	900	765
AS-RDF-EX 560	1,000	500	1,050	790

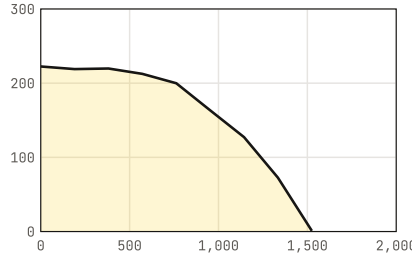
Performance curves

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

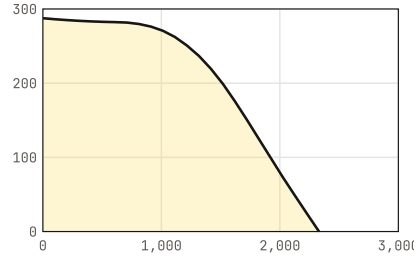
AS-RDF-EX 280 — 1,435 min⁻¹ · 0.25 kW



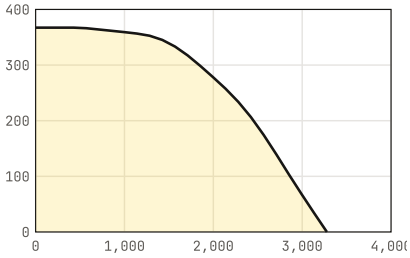
AS-RDF-EX 315 — 1,400 min⁻¹ · 0.25 kW



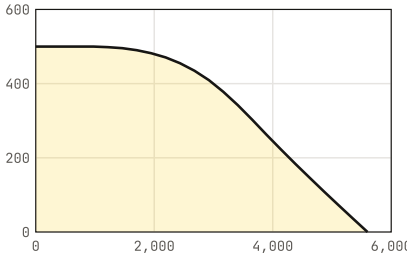
AS-RDF-EX 355 — 1,428 min⁻¹ · 0.37 kW



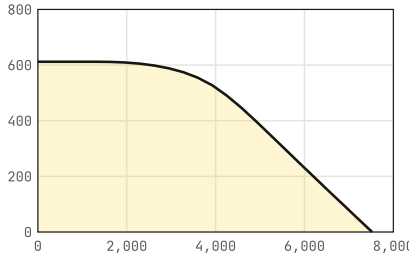
AS-RDF-EX 400 1,425 min⁻¹ · 0.55 kW



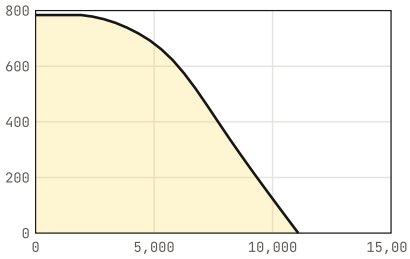
AS-RDF-EX 450 1,447 min⁻¹ · 0.75 kW



AS-RDF-EX 500 1,447 min⁻¹ · 1.1 kW



AS-RDF-EX 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-RDF-EX 280	44	55	70	69	70	68	65	60	**76**	58
AS-RDF-EX 315	44	55	70	69	70	68	65	60	**76**	58
AS-RDF-EX 355	46	57	72	71	72	70	67	62	**78**	60
AS-RDF-EX 400	47	58	73	72	73	71	68	63	**79**	61
AS-RDF-EX 450	49	60	75	74	75	73	70	65	**81**	63
AS-RDF-EX 500	53	64	79	78	79	77	74	69	**85**	67
AS-RDF-EX 560	56	67	82	81	82	80	77	72	**88**	70

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.