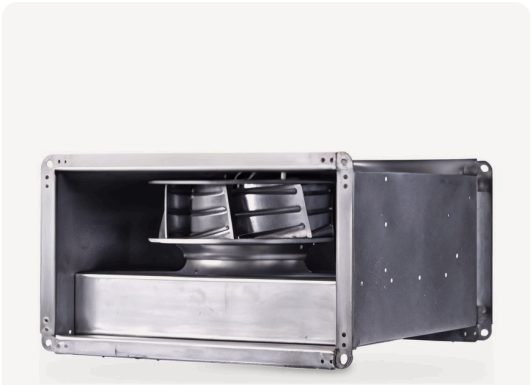
F04 · CENTRIFUGAL & MIXED-FLOW DUCT FANS

AS-RDF

Commercial Rectangular Duct Centrifugal Fans



AS-RDF rectangular duct centrifugal fans are used in commercial projects for the ventilation of rooms and spaces. They can be mounted directly onto rectangular ducts, which simplifies installation, and they keep energy consumption low.

The casing is made of galvanized sheet steel with rectangular duct connections for in-line installation. Air discharge can be horizontal or vertical. The backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø180 to Ø560 mm.

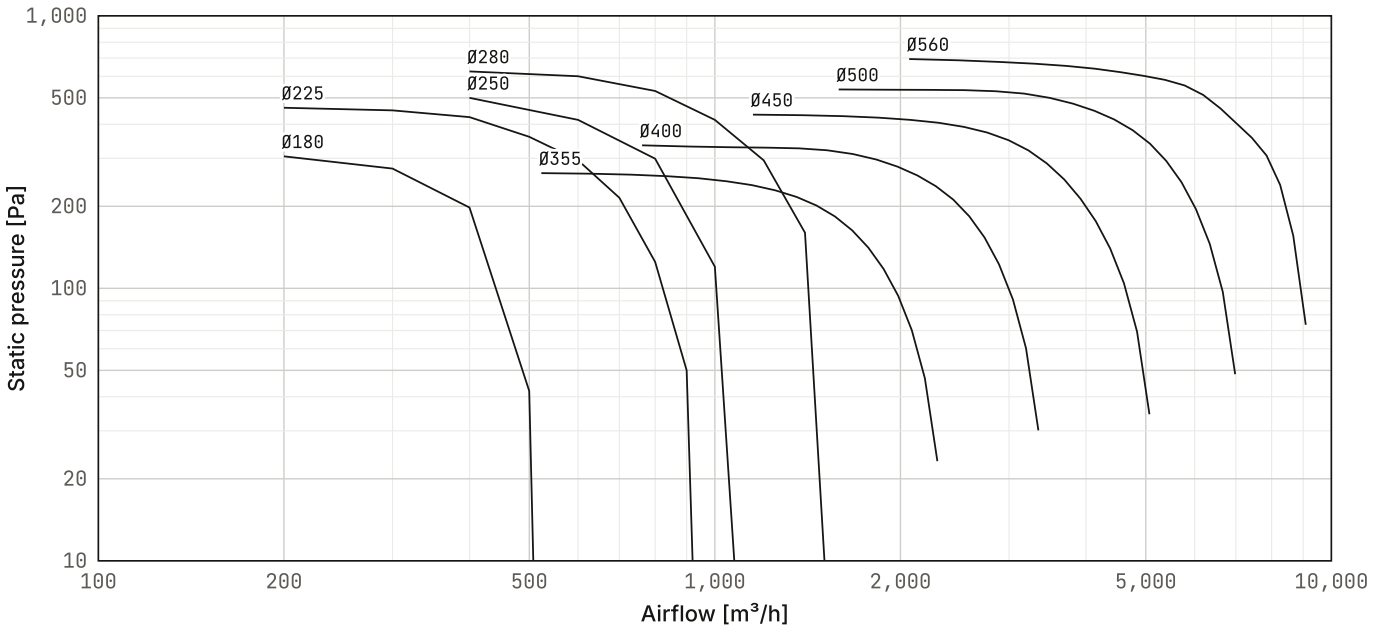
The direct-drive external-rotor motors are 2- or 4-pole units for 230 V and 380 V supplies, with IP44 protection and class F insulation, rated for S1 and S2 duty. Versions for 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
9,500 m³/h	700 Pa	180 – 560 mm	0.05 – 1.7 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,360 – 2,685 min⁻¹	230 V 1~ · 380 V 1~ · 50 Hz	50°C	IP44 · F



Selection chart

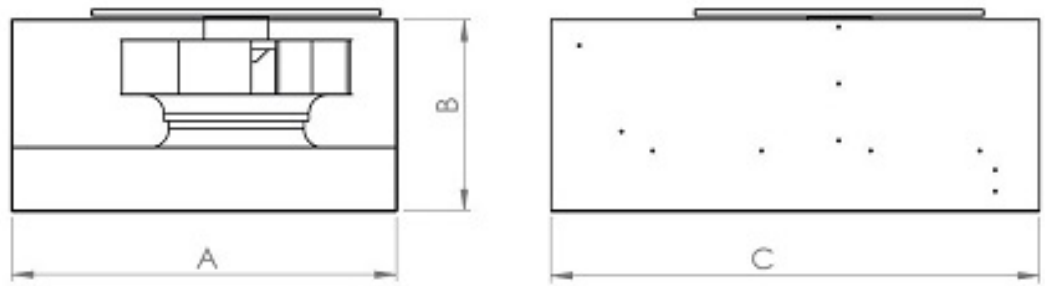
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor.



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)]	FEG
AS-RDF 30-15	180	0.05	2,600	230 V 1~	0.5	520	320	51	–
AS-RDF 40-20A	225	0.06	2,675	230 V 1~	0.6	950	500	55	–
AS-RDF 40-20B	250	0.08	2,685	230 V 1~	0.6	1,150	580	59	–
AS-RDF 50-25	280	0.08	2,615	230 V 1~	1.1	1,600	690	61	–
AS-RDF 60-30	355	0.48	1,360	230 V 1~	0.9	2,400	265	61	95
AS-RDF 60-35	400	0.21	1,362	230 V 1~	1.1	3,500	340	57	65
AS-RDF 70-40	450	0.69	1,367	230 V 1~	0.8	5,300	435	62	65
AS-RDF 80-50	500	1.1	1,364	230 V 1~	1.5	7,300	540	63	95
AS-RDF 100-50	560	1.7	1,369	380 V 1~	1.7	9,500	700	67	90

Dimensions [mm]

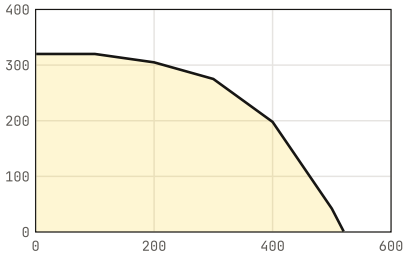


Model	A	B	C
AS-RDF 30-15	300	150	400
AS-RDF 40-20A	400	200	500
AS-RDF 40-20B	400	200	500
AS-RDF 50-25	500	250	565
AS-RDF 60-30	600	300	760
AS-RDF 60-35	600	350	765
AS-RDF 70-40	700	400	790
AS-RDF 80-50	800	500	900
AS-RDF 100-50	1,000	500	1,050

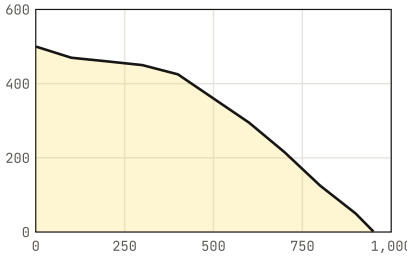
Performance curves

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

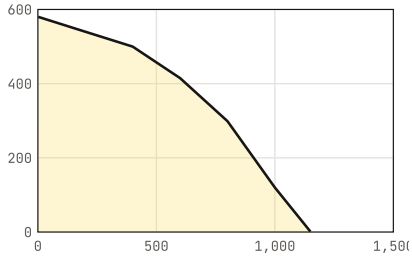
AS-RDF 30-15 2,600 min⁻¹ · 0.05 kW



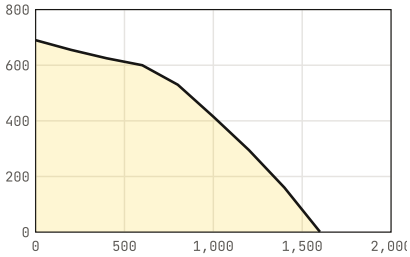
AS-RDF 40-20A 2,675 min⁻¹ · 0.06 kW



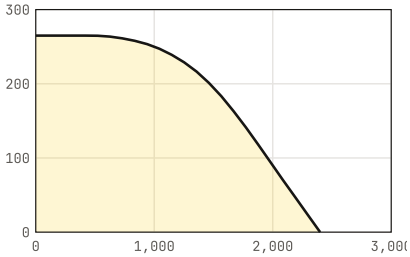
AS-RDF 40-20B 2,685 min⁻¹ · 0.08 kW



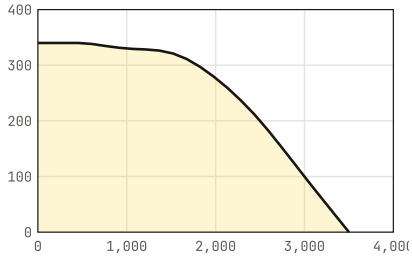
AS-RDF 50-25 2,615 min⁻¹ · 0.08 kW



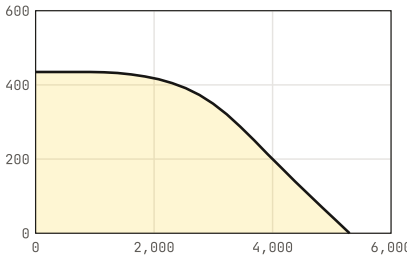
AS-RDF 60-30 1,360 min⁻¹ · 0.48 kW



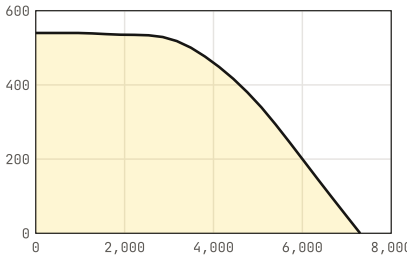
AS-RDF 60-35 1,362 min⁻¹ · 0.21 kW



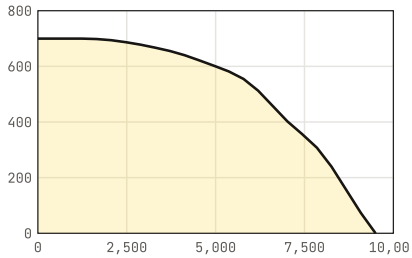
AS-RDF 70-40 1,367 min⁻¹ · 0.69 kW



AS-RDF 80-50 1,364 min⁻¹ · 1.1 kW



AS-RDF 100-50 1,369 min⁻¹ · 1.7 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 30-15	37	48	63	62	63	61	58	53	**69**	51
AS-RDF 40-20A	41	52	67	66	67	65	62	57	**73**	55
AS-RDF 40-20B	45	56	71	70	71	69	66	61	**77**	59
AS-RDF 50-25	47	58	73	72	73	71	68	63	**79**	61
AS-RDF 60-30	47	58	73	72	73	71	68	63	**79**	61
AS-RDF 60-35	43	54	69	68	69	67	64	59	**75**	57
AS-RDF 70-40	48	59	74	73	74	72	69	64	**80**	62
AS-RDF 80-50	49	60	75	74	75	73	70	65	**81**	63
AS-RDF 100-50	53	64	79	78	79	77	74	69	**85**	67

Notes

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.