VDF-R-KE EC SERIES

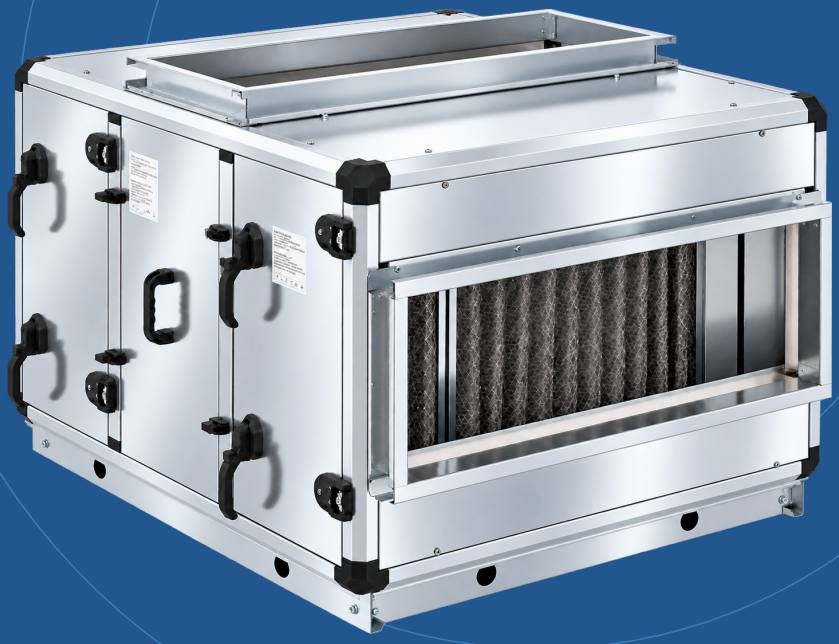
EC kitchen exhaust fans

VDF-R-KE

EC

BACKWARD-CURVED IMPELLER

INSULATED EXTRACTION CABINET



5000-28000	06	10 V
Maximum airflow / m^3/h	Models in the range	Performance setting

01 / PRODUCT OVERVIEW

Designed for kitchen extraction.

EC kitchen
exhaust fan



01 Insulated cabinet

Galvanized steel panels, an aluminium profile frame and 25 mm rock-wool insulation form the extraction cabinet.

02 Grease extraction

A backward-curved centrifugal impeller works with a metal grease filter and oil-drain tray. The motor is outside the transported-air path.

03 Integrated EC control

Electronic speed regulation uses a 400 V / 3 phase / 50 Hz mains supply. Published performance curves apply to the 10 V setting.

FILTER ACCESS & DRAINAGE

Keep the filter and drainage path clean. Allow clearance for the service cover, motor and electrical connection, and coordinate ductwork with the dimension drawing.

SERIES AT A GLANCE

Selection parameter	Series reference
Mains / performance setting	400 V / 3 phase / 50 Hz / 10 V
Operating temperature	-20 to 55 °C
Medium / ambient maximum	120 °C / 55 °C
Motor protection / insulation	IP55 / class F

A verified EC wiring diagram and terminal assignments are unavailable. Use the electrical documentation supplied with the ordered configuration.

02 / TECHNICAL DATA

Specify the extraction duty.

400 V / 3 PHASE / 50 Hz

Model	Max. airflow m^3/h	Rated input W	Rated A	Rated speed rpm	Max. static Pa	Mass kg
VDF-R-KE EC T 450 6K	5000	850	2.4	960	300	50
VDF-R-KE EC T 500 6K	7000	1200	2.5	960	410	85
VDF-R-KE EC T 560 6K	10500	1375	4.5	960	540	85
VDF-R-KE EC T 710 8K	20000	2400	7	730	450	115
VDF-R-KE EC T 800 8K	25000	3600	9	750	550	120
VDF-R-KE EC T 900 8K	28000	3700	9.5	750	350	135

Maximum airflow, maximum static pressure and rated motor parameters are separate references. Select the operating point from the model curve; the declared motor speed is not used to rescale it.

RATED SPEED & ORIGINAL CURVE REFERENCE

Model	Rated speed / rpm	Curve reference / rpm
VDF-R-KE EC T 500 6K	960	930
VDF-R-KE EC T 560 6K	960	930
VDF-R-KE EC T 710 8K	730	750
VDF-R-KE EC T 900 8K	750	720

T 500 6K: the declared maximum static pressure is 410 Pa; its supplied pressure curve starts at approximately 420 Pa. Both original records are retained. No speed conversion or curve re-fitting is applied.

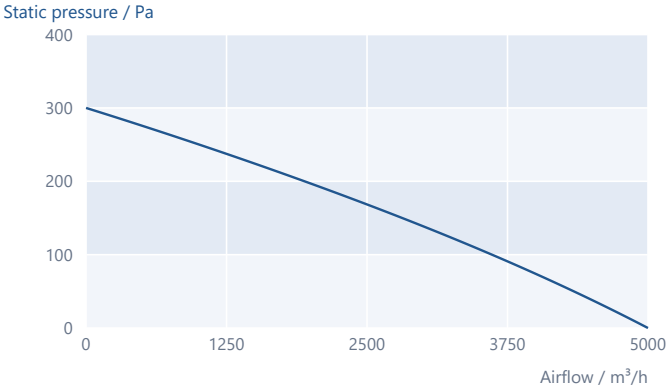
Operating and ambient limits differ from the 120 °C maximum transported-medium temperature. Use the limits stated in the overview for each condition.

03 / AIR PERFORMANCE

Fan Performance Curves

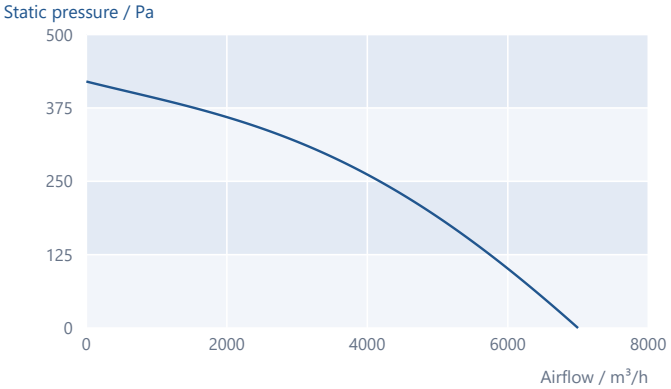
VDF-R-KE EC T 450 6K

50 Hz / 10 V / curve speed: 960 rpm



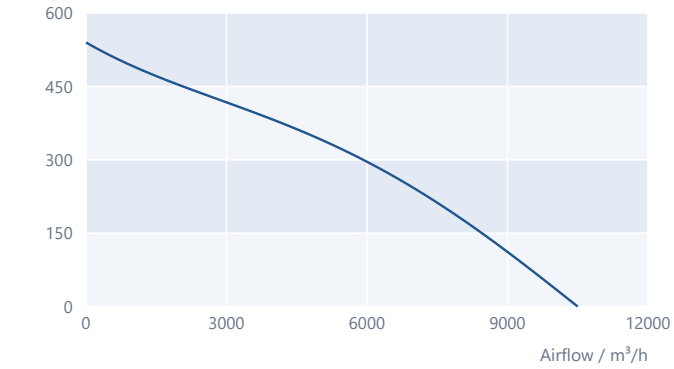
VDF-R-KE EC T 500 6K

50 Hz / 10 V / curve speed: 930 rpm



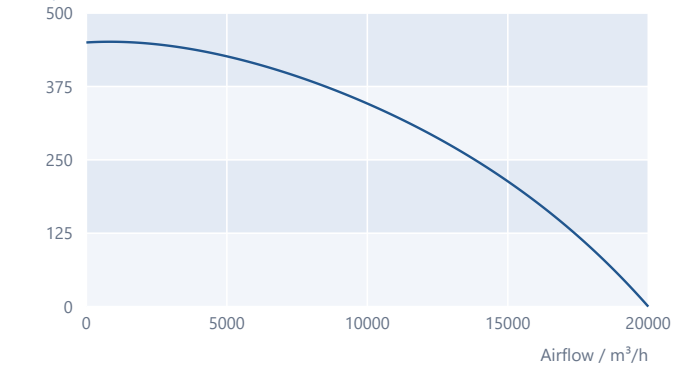
VDF-R-KE EC T 560 6K

50 Hz / 10 V / curve speed: 930 rpm



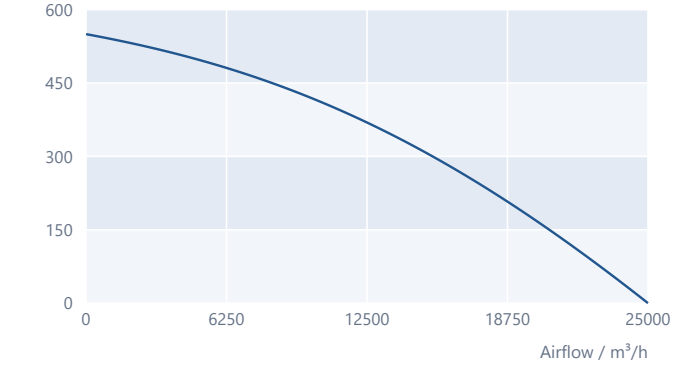
VDF-R-KE EC T 710 8K

50 Hz / 10 V / curve speed: 750 rpm



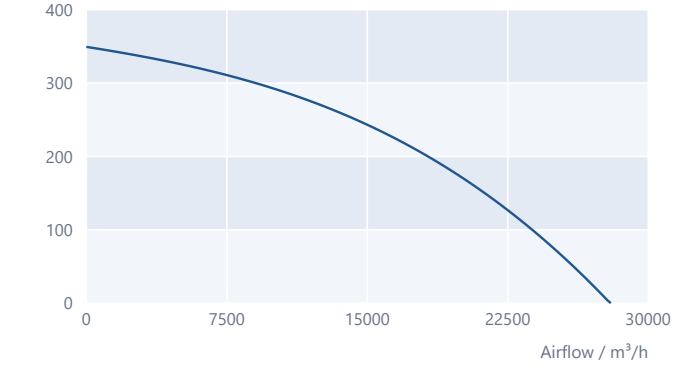
VDF-R-KE EC T 800 8K

50 Hz / 10 V / curve speed: 750 rpm



VDF-R-KE EC T 900 8K

50 Hz / 10 V / curve speed: 720 rpm



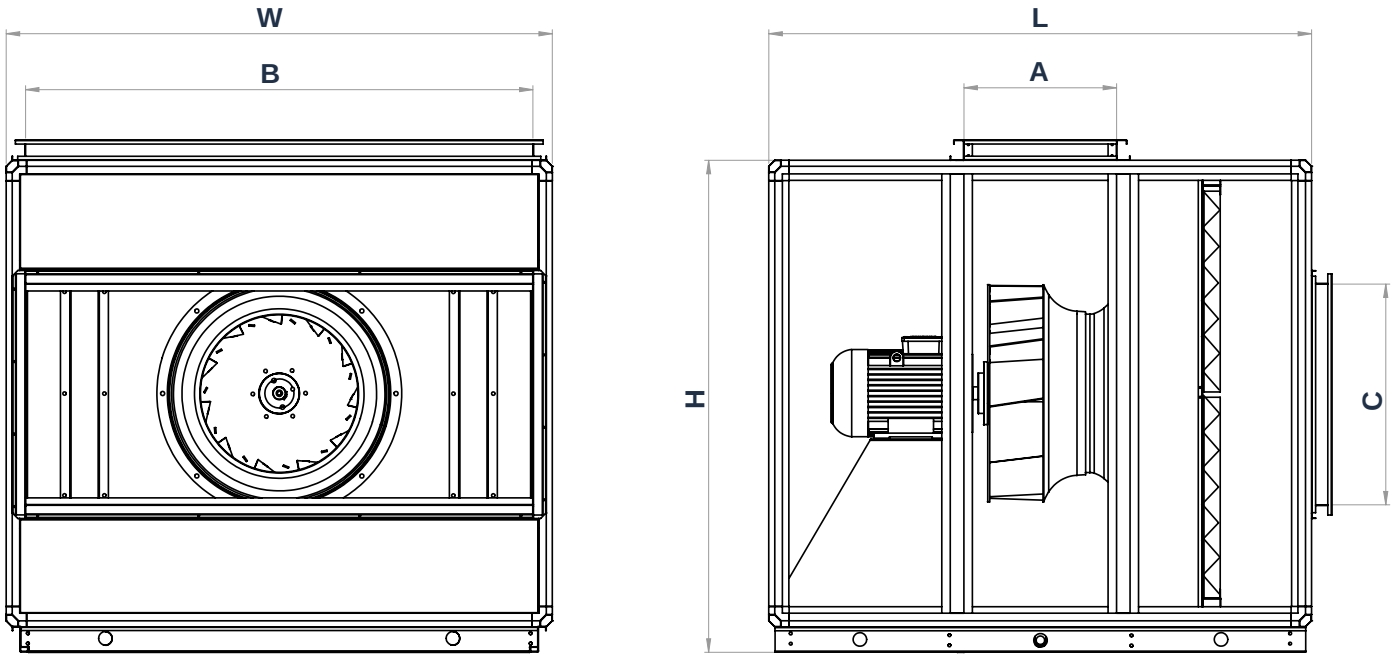
T 500 6K: 410 Pa declared maximum; original curve starts at approximately 420 Pa. Original 10 V coefficients and airflow domains are retained without speed conversion. Model-specific scales.

04 / DIMENSIONS

Plan connections and access.

REPRESENTATIVE SERIES OUTLINE

All dimensions in mm



Model	A	B	C	H	L	W
VDF-R-KE EC T 450 6K	335	815	335	900	1100	900
VDF-R-KE EC T 500 6K	365	915	365	1000	1140	1000
VDF-R-KE EC T 560 6K	365	915	365	1000	1140	1000
VDF-R-KE EC T 710 8K	550	1300	550	1300	1300	1300
VDF-R-KE EC T 800 8K	600	1500	600	1600	1600	1600
VDF-R-KE EC T 900 8K	600	1500	600	1600	1600	1600

Use the row for the selected model. A, B and C are the supplied connection dimensions; H, L and W describe the cabinet. The original drawing is representative and is not drawn to scale. Leave clearance for service access.

05 / ACOUSTIC DATA

Sound power by airflow path.

OCTAVE-BAND SOUND POWER AT 10 V / dB(A)

Model	Path	65 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
VDF-R-KE EC T 450 6K	Inlet	60	66	66	67	66	65	61	55	74
VDF-R-KE EC T 450 6K	Outlet	61	66	66	67	66	65	61	55	74
VDF-R-KE EC T 450 6K	Housing	58	65	64	62	60	56	52	50	70
VDF-R-KE EC T 500 6K	Inlet	60	66	66	67	66	65	61	55	74
VDF-R-KE EC T 500 6K	Outlet	61	66	66	67	66	65	61	55	74
VDF-R-KE EC T 500 6K	Housing	58	65	64	62	60	56	52	50	70
VDF-R-KE EC T 560 6K	Inlet	60	66	66	67	66	65	61	55	74
VDF-R-KE EC T 560 6K	Outlet	61	66	66	67	66	65	61	55	74
VDF-R-KE EC T 560 6K	Housing	58	65	64	62	60	56	52	50	70
VDF-R-KE EC T 710 8K	Inlet	69	73	74	75	74	73	68	62	82
VDF-R-KE EC T 710 8K	Outlet	69	74	74	75	74	73	68	63	82
VDF-R-KE EC T 710 8K	Housing	60	66	65	63	62	57	55	50	72
VDF-R-KE EC T 800 8K	Inlet	69	73	74	75	74	73	68	62	82
VDF-R-KE EC T 800 8K	Outlet	69	74	74	75	74	73	68	63	82
VDF-R-KE EC T 800 8K	Housing	60	66	65	63	62	57	55	50	72
VDF-R-KE EC T 900 8K	Inlet	70	76	76	77	76	75	70	65	84
VDF-R-KE EC T 900 8K	Outlet	71	76	76	77	76	75	70	65	84
VDF-R-KE EC T 900 8K	Housing	62	67	66	64	62	58	55	51	74

Each model retains its supplied inlet, outlet and housing sound-power values. Repeated references remain in their own model rows. Band labels include the supplied first band at 65 Hz; declared totals are not arithmetic sums.

Sound pressure and measurement distance are not supplied. Sound-power references are not installation-specific or selected-duty sound-pressure predictions.

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EC

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