VCF-EC SERIES

Circular inline EC duct fans

VCF-EC

ec MOTOR

BACKWARD-CURVED IMPELLER

GALVANIZED STEEL CASING



360-2700	08	10 V
Maximum airflow / m^3/h	Models in the range	Performance setting

01 / PRODUCT OVERVIEW

Circular ducts. EC control.

Circular inline
EC duct fan



COMPACT INLINE VENTILATION

For circular duct ventilation paths where space for a separate fan cabinet is limited. Select the model using its curve and connection dimensions.

01 Built for circular ductwork

Galvanized-steel casing and impeller with backward-curved centrifugal blades. Circular inlet and outlet connections integrate with the duct run.

02 Integrated EC electronics

EC motor electronics provide speed regulation. The air-performance curves in this catalogue apply to the published 10 V setting.

03 Access for inspection

Use the mounting supports, align the duct connections and keep the terminal box and connecting joints accessible for inspection and cleaning.

SERIES AT A GLANCE

Selection parameter	Series reference
Mains supply	230 V / 1 phase / 50 Hz
EC performance setting	10 V
Motor protection / insulation	IP55 / class F
Maximum operating temperature	55 °C

An EC-specific wiring diagram and terminal assignments are not supplied in the verified record. Use the electrical documentation provided with the ordered fan.

02 / TECHNICAL DATA

Choose the EC configuration.

230 V / 1 PHASE / 50 Hz

Model	Max. airflow m³/h	Rated input W	Current A	Speed rpm	Max. static Pa	Mass kg	LpA at 3 m dB(A)
VCF-EC 100	360	140	1.25	3900	700	2.5	70
VCF-EC 125	500	150	1.3	3950	660	2.8	67
VCF-EC 150	620	150	1.3	3950	680	3	66
VCF-EC 160	650	96	0.73	3345	650	3.3	66
VCF-EC 200	1100	130	0.87	3000	600	5	61
VCF-EC 250	1700	150	1	2800	650	4.3	64
VCF-EC 315 B	2000	530	2.35	2960	1040	9	73
VCF-EC 355	2700	816	3.6	3050	1000	9	72

Maximum airflow and maximum static pressure are separate limits of the performance envelope. Rated input, current and speed are declared motor references; they are not simultaneous readings at one operating point.

COMMON MOTOR DATA

Parameter	Series value
Technology	EC / integrated electronics
Motor enclosure	IP55
Insulation class	F
Maximum operating temperature	55 °C

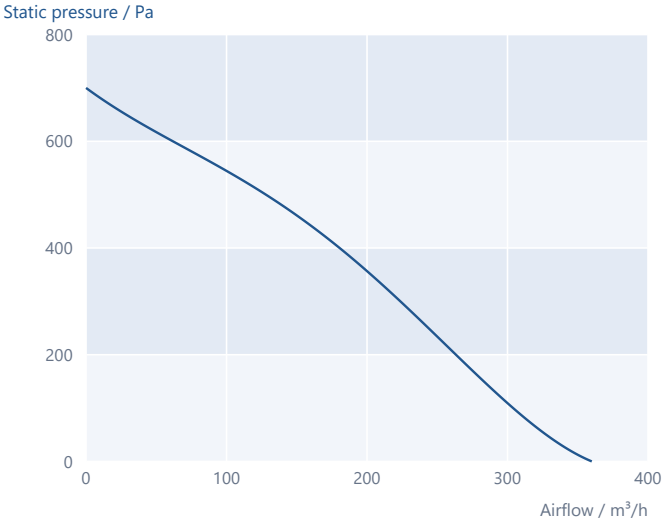
Acoustic pressure is a declared reference at 3 m. Octave-band sound-power values are listed separately on page 7.

03 / AIR PERFORMANCE

Fan Performance Curves

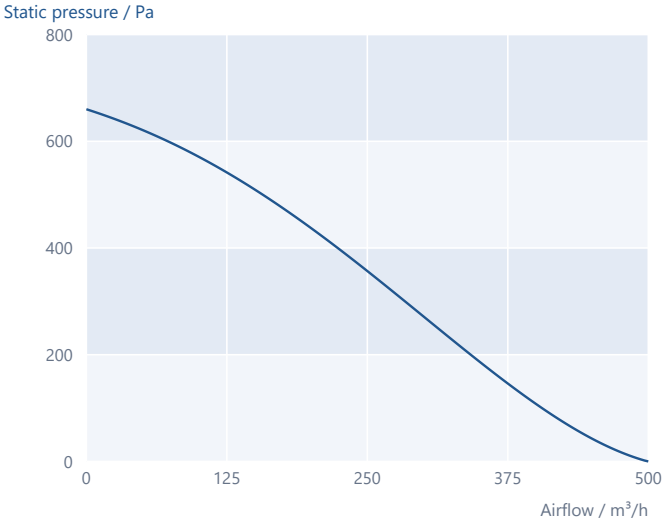
VCF-EC 100

230 V / 1 phase / 50 Hz / 10 V setting



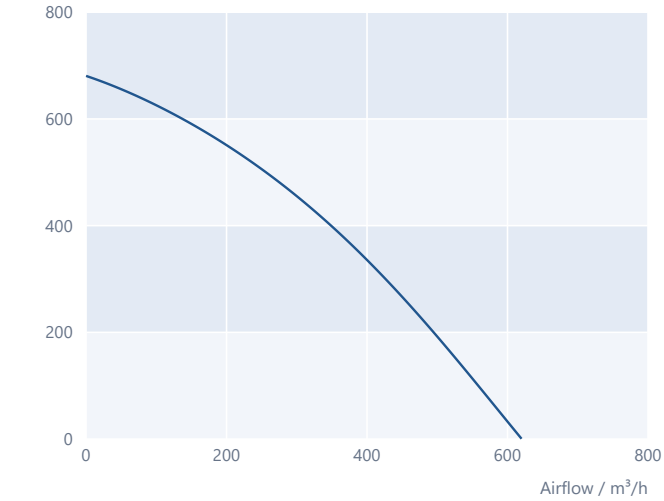
VCF-EC 125

230 V / 1 phase / 50 Hz / 10 V setting



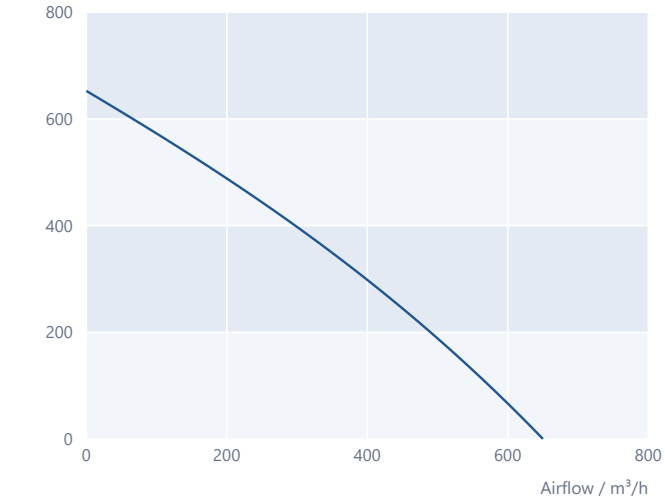
VCF-EC 150

230 V / 1 phase / 50 Hz / 10 V setting



VCF-EC 160

230 V / 1 phase / 50 Hz / 10 V setting



Curves apply to the 10 V setting and retain the published airflow range. Each model uses its own scales. No speed adjustment, curve re-fitting or extension beyond the available range is applied.

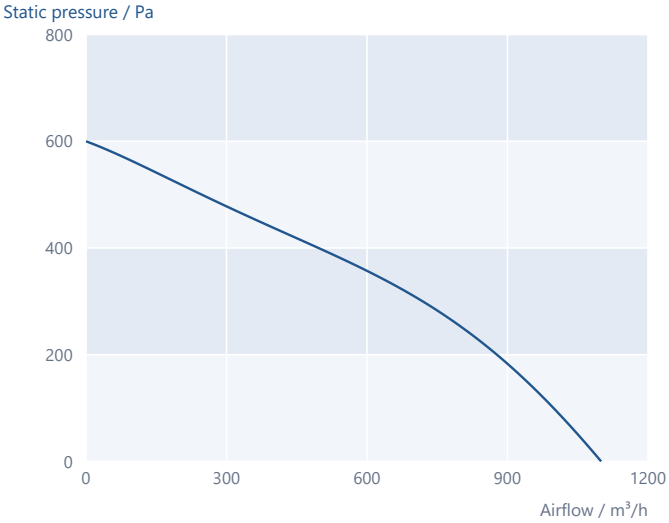
Select the operating point against the system resistance, within the model curve.

03 / AIR PERFORMANCE

Fan Performance Curves

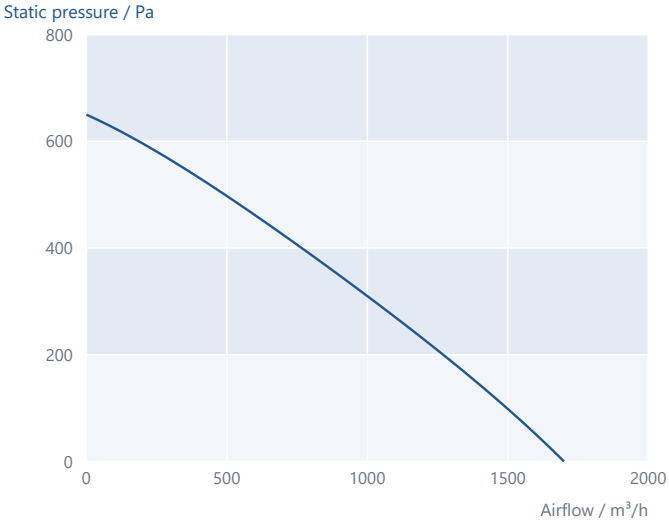
VCF-EC 200

230 V / 1 phase / 50 Hz / 10 V setting



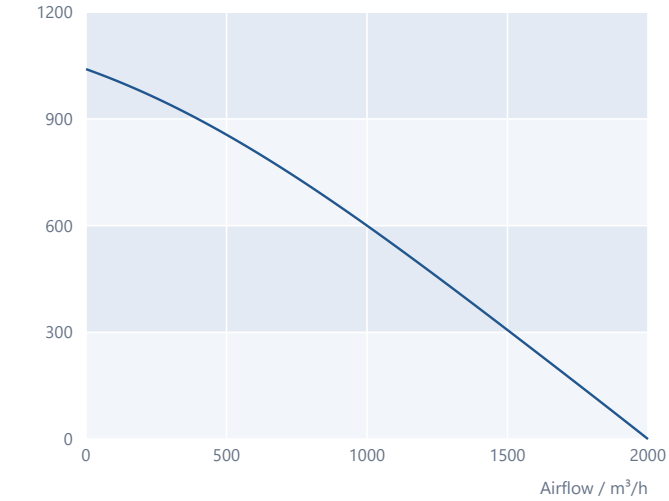
VCF-EC 250

230 V / 1 phase / 50 Hz / 10 V setting



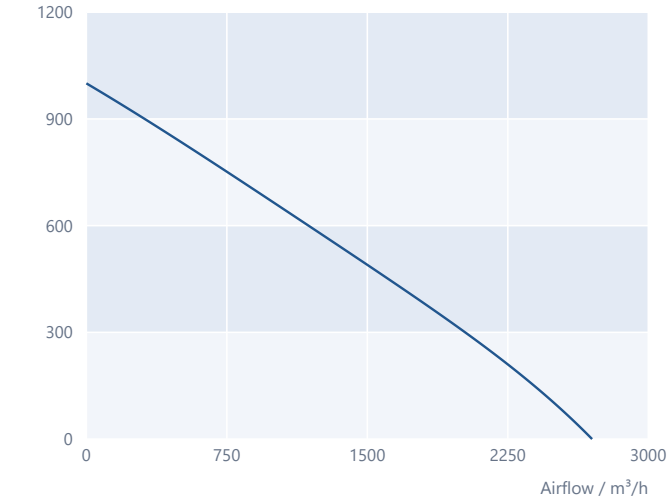
VCF-EC 315 B

230 V / 1 phase / 50 Hz / 10 V setting



VCF-EC 355

230 V / 1 phase / 50 Hz / 10 V setting



Curves apply to the 10 V setting and retain the published airflow range. Each model uses its own scales. No speed adjustment, curve re-fitting or extension beyond the available range is applied.

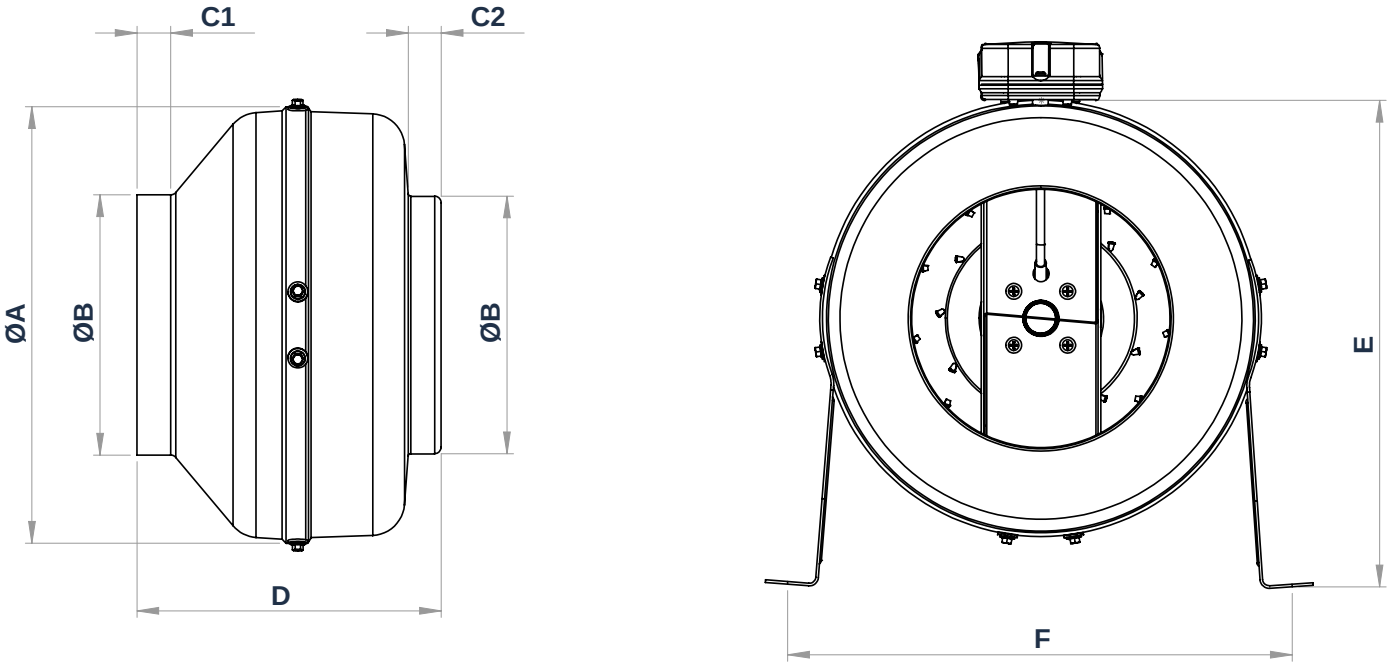
Select the operating point against the system resistance, within the model curve.

04 / DIMENSIONS

Fit the fan to the duct run.

REPRESENTATIVE SERIES OUTLINE

All dimensions in mm



Model	ØA	ØB	C1	C2	D	E	F
VCF-EC 100	245	97	20	20	197	273	268
VCF-EC 125	245	122	20	20	188	273	268
VCF-EC 150	272	147	23	25	192	286	295
VCF-EC 160	272	157	23	25	192	286	295
VCF-EC 200	330	196	30	28	230	380	352
VCF-EC 250	330	247	30	28	227	380	352
VCF-EC 315 B	400	313	30	30	285	415	422
VCF-EC 355	400	352	30	30	378	415	422

The outline uses generic series dimensions; use the row for the selected model. ØA is the casing diameter and ØB is the connection diameter. Do not scale the drawing.

05 / ACOUSTICS

Understand the sound profile.

OCTAVE-BAND SOUND POWER / dB(A)

Model	Path	65 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
VCF-EC 100	Inlet	60	72	69	70	70	67	59	49	77
VCF-EC 100	Outlet	60	72	70	70	71	68	59	49	78
VCF-EC 100	Housing	43	55	52	53	53	52	42	32	60
VCF-EC 125	Inlet	57	69	66	67	67	64	56	46	74
VCF-EC 125	Outlet	52	67	65	65	66	63	54	44	73
VCF-EC 125	Housing	39	51	48	49	49	46	38	28	56
VCF-EC 150	Inlet	54	67	66	65	66	63	54	45	73
VCF-EC 150	Outlet	50	64	63	62	63	62	51	42	72
VCF-EC 150	Housing	34	47	46	45	46	43	34	25	53
VCF-EC 160	Inlet	54	67	66	66	67	63	54	45	73
VCF-EC 160	Outlet	56	67	67	68	68	65	55	47	74
VCF-EC 160	Housing	34	47	46	45	46	43	34	25	53
VCF-EC 200	Inlet	49	62	61	60	61	60	49	43	68
VCF-EC 200	Outlet	50	63	62	61	62	61	50	44	69
VCF-EC 200	Housing	31	44	43	42	43	42	31	25	50
VCF-EC 250	Inlet	50	65	64	63	64	63	52	43	71
VCF-EC 250	Outlet	50	64	63	62	63	62	51	42	70
VCF-EC 250	Housing	30	45	44	43	44	43	32	23	51
VCF-EC 315 B	Inlet	62	74	71	72	72	71	61	51	79
VCF-EC 315 B	Outlet	63	75	72	74	73	72	62	52	80
VCF-EC 315 B	Housing	43	55	52	54	54	50	43	33	60
VCF-EC 355	Inlet	61	73	70	71	71	70	60	52	78
VCF-EC 355	Outlet	62	74	71	72	72	71	61	51	79
VCF-EC 355	Housing	42	54	51	53	53	49	41	32	59

Inlet, outlet and housing values are declared acoustic references. Band labels follow the available data, including the first band at 65 Hz. Totals are retained as declared; they are not arithmetic sums of the bands.

Sound power and sound pressure are different quantities. The 3 m sound-pressure reference is on page 3; no installation-specific or selected-duty acoustic calculation is implied.

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VOLTVENT®
VENTILATION SYSTEMS

info@voltvent.com | voltvent.com