VOLTVENT®
VENTILATION SYSTEMS

VDFF SERIES

Filtered duct fans

VDFF

G4 / ACTIVATED CARBON

GALVANIZED STEEL CABINET



665-4655
Nominal airflow / m^3/h

05
Models in the range

50 Hz
Performance frequency

info@voltvent.com | voltvent.com

01 / PRODUCT OVERVIEW

Duct ventilation. Integrated filtration.



01 Cabinet and impeller

Compact galvanized-steel cabinet for ducted ventilation, with an aluminium centrifugal impeller.

02 G4 and activated carbon

The G4 dust prefilter retains coarse particles. The activated carbon stage helps reduce odours; performance depends on the contaminant and filter condition.

03 Accessible filter sections

Keep the filter access clear. Inspect the installed stages regularly and replace filters as their resistance increases.

STANDARD FILTER STAGES

G4 prefilter → **Activated carbon**

Functional sequence; component positions are schematic.

CONFIGURABLE AT PRODUCTION

Alternative filters and an additional third filter stage can be specified at production. Confirm the requested filter set and its pressure resistance for the order.

SERIES AT A GLANCE

Selection parameter	Series reference
Nominal airflow	665-4655 m^3/h
Mains reference	230 V / 50 Hz
Motor protection / insulation	IP44 / class F
Working temperature	-20 to +50 °C
Standard filter stages	G4 dust prefilter / activated carbon

Nominal airflow values refer to 0 Pa. Check the required duty with the installed filters and the complete duct-system resistance.

02 / TECHNICAL DATA

Select the airflow and filtration duty.

05 CONFIGURATIONS / AC DRIVE / 50 Hz

Model	Supply V	Power W	Speed rpm	Nominal Q m^3/h	Curve Ps max. Pa	Noise* dB(A)
VDFF 5	230	85	2722	665	324	50
VDFF 10	230	122	2670	950	500	52
VDFF 20	230	210	2580	1665	700	54
VDFF 30	230	380	1420	3230	341	56
VDFF 40	230	690	1365	4655	437	58

* Published noise figures are retained as given. Measurement distance and sound-pressure/sound-power basis are not specified. No octave-band spectrum is supplied.

Nominal catalogue values refer to 0 Pa. Pressure maxima follow the supplied curve points, rounded to the nearest Pa; maximum airflow and maximum pressure are separate limits.

Small differences between nominal airflow and curve endpoints arise from the retained vector sampling. Published power and speed remain their original catalogue references.

Performance reference	Basis
Nominal rating reference	0 Pa
Curve basis	Original 50 Hz pressure points
Filter-loading condition for curves	Not specified

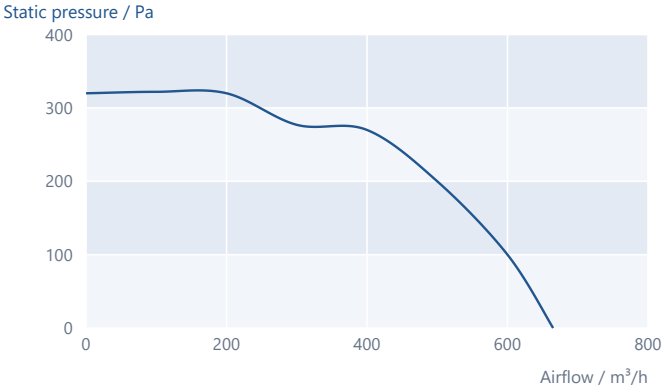
The voltage is listed without assuming a phase count. Rated current and mass are not supplied.

03 / AIR PERFORMANCE

Fan Performance Curves

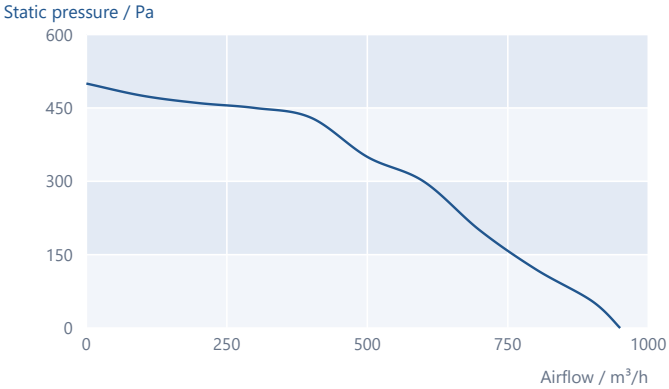
VDFF 5

230 V / 50 Hz



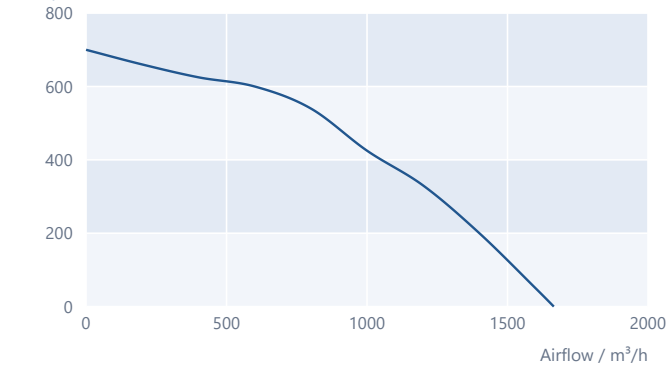
VDFF 10

230 V / 50 Hz



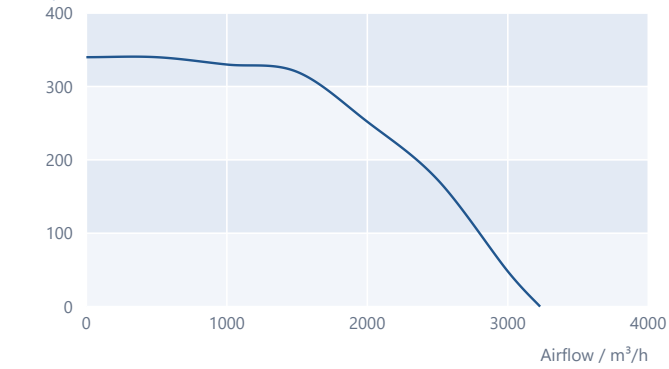
VDFF 20

230 V / 50 Hz



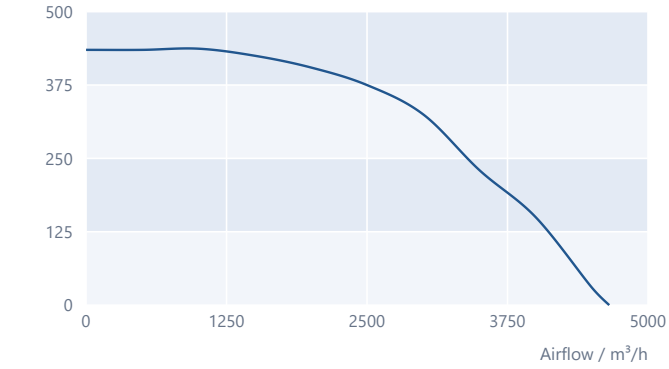
VDFF 30

230 V / 50 Hz



VDFF 40

230 V / 50 Hz



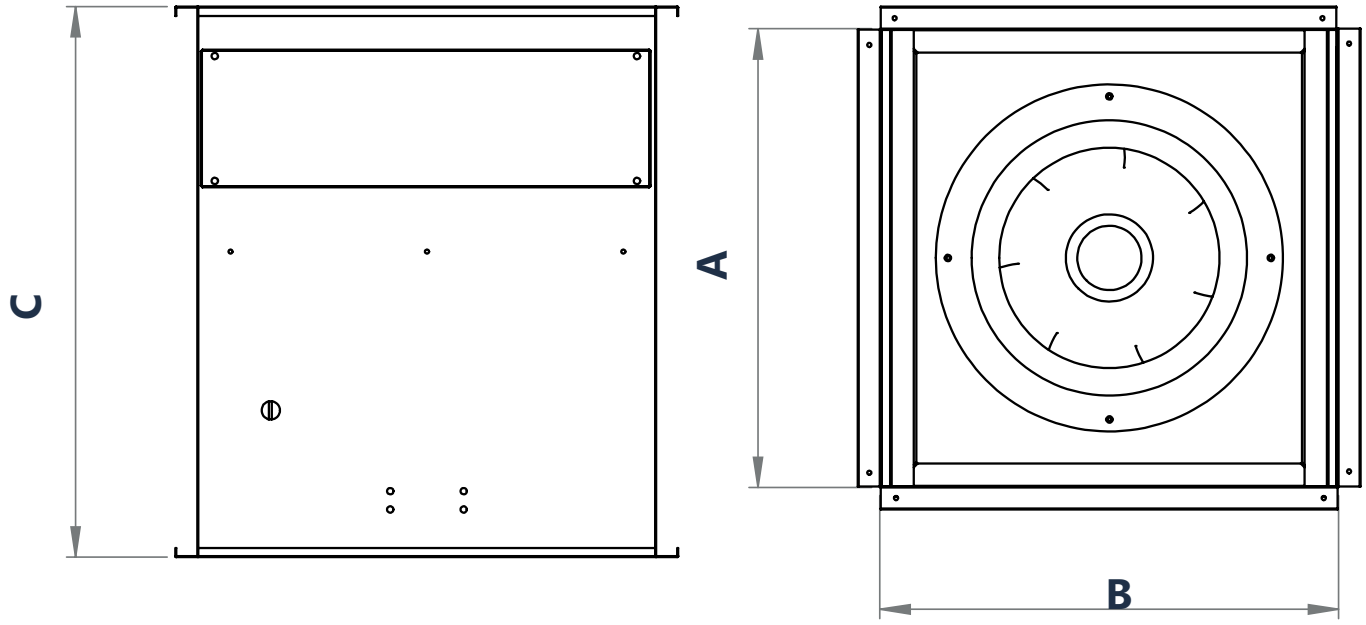
Original 50 Hz vector-sampled curve points and domains retained. No re-fitting, speed conversion or extrapolation. Model-specific scales. The published filter-loading condition is not specified.

04 / DIMENSIONS

Coordinate the duct and service access.

REPRESENTATIVE SERIES OUTLINE

All dimensions in mm



Model	A	B	C
VDFF 5	300	300	500
VDFF 10	350	350	500
VDFF 20	400	400	500
VDFF 30	450	450	600
VDFF 40	500	500	600

Use the row for the selected model. The original outline is representative and is not drawn to scale. Allow access for filter removal, duct connections and routine service.

05 / INSTALLATION & ELECTRICAL

Keep the filter access clear.

SUPPLY AND AVAILABLE ELECTRICAL DATA

Supply / parameter	VDFF model or available information
Mains reference	230 V / 50 Hz; all five models
Phase count	Not specified in current data
Rated current	Not supplied
Mass	Not supplied
Electrical connection diagram	Not supplied for this series

Use the supplied unit nameplate and its connection instructions for final installation. Catalogue voltage alone does not establish the phase count or terminal arrangement.

FILTER SERVICE

Allow removal clearance.

Keep each installed filter section accessible. Inspect filters regularly and replace them as their resistance increases. Retain the specified stage arrangement when ordering replacement filters.

AIRFLOW AND RESISTANCE

Check the installed duty.

Available airflow depends on the installed filters and duct-system resistance. Include the actual pressure losses when checking the required operating point; the published curves do not define filter loading.

G4 prefiltration retains coarse particles. Activated carbon helps reduce odours; its performance depends on the contaminant and filter condition. Confirm any alternative or additional stage as part of the requested production configuration.

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