VSVD SERIES

Shelter ventilation devices

VSVD

G4 / ACTIVATED CARBON / NBC

BYPASS AIR PATH



300-5400	11	50 Hz
Nominal airflow / m^3/h	Models in the range	Performance frequency

01 / PRODUCT OVERVIEW

Ventilation with staged filtration.



01 Cabinet and impeller

Galvanized-steel cabinet with an aluminium centrifugal impeller and accessible filter sections.

02 Three named filter stages

G4 dust prefilter, activated carbon filter and NBC final filter. The normal ventilation path uses the G4 prefilter through the bypass.

03 Access and damper operation

Leave clearance for filter removal and damper operation. Check the available pressure for the selected air path and filter condition.

VSVD 3E / MANUAL BACKUP

A dedicated manual option.

The 3E configuration includes a hand crank for operation without electricity. Its manual-mode airflow is not specified; the published curve is a separate 50 Hz reference.

SERIES AT A GLANCE

Selection parameter	Series reference
Nominal airflow	300-5400 m^3/h
Mains reference	230 V; VSVD 54: 380 V / 50 Hz
Motor protection / insulation	IP44 / class F
Working temperature	-20 to +50 °C
Manual operation option	VSVD 3E only

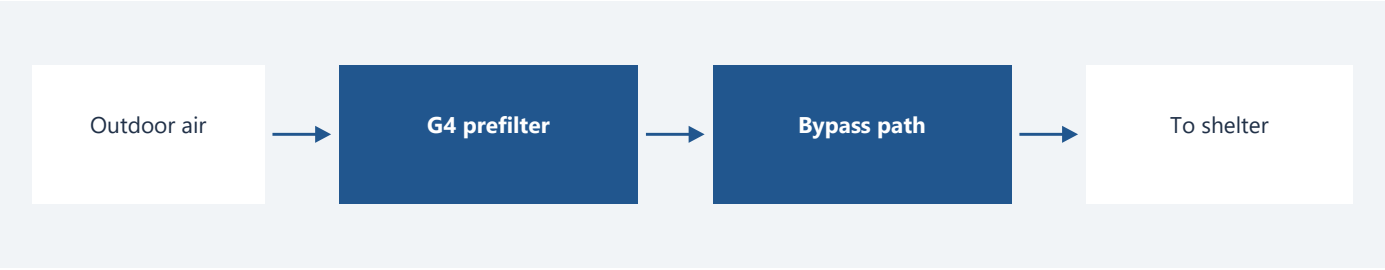
Choose the operating air path and the installed filters before checking the required airflow and available pressure. The product photo illustrates the series construction.

02 / FILTRATION & OPERATING MODES

Two air paths. One cabinet.

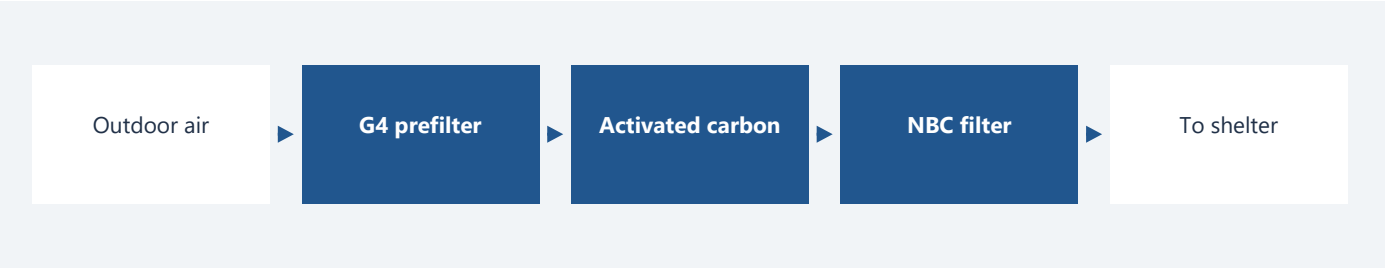
NORMAL VENTILATION

G4 dust prefiltration through the bypass air path.



MULTI-STAGE FILTERED AIR PATH

G4 dust prefilter followed by activated carbon and the NBC final filter.



Functional air-path illustration. Component positions are schematic; the cabinet drawing and selected model define the physical arrangement.

FILTER RESISTANCE AND THE DUTY POINT

Select the installed configuration.

Available airflow depends on the active air path and installed filter resistance. The published curves do not identify a filter-loading condition. Include the actual filter and duct resistance when checking the required operating point.

03 / TECHNICAL DATA

Compare the complete range.

11 CONFIGURATIONS / AC DRIVE / 50 Hz

Model	Supply V	Power W	Speed rpm	Nominal Q m^3/h	Curve Ps max. Pa	Noise* dB(A)	Manual option
VSVD 3	230	150	2710	300	451	50	No
VSVD 5	230	150	2680	500	515	52	No
VSVD 7	230	150	2712	700	540	55	No
VSVD 9	230	260	2712	900	740	56	No
VSVD 13	230	260	2610	1300	700	60	No
VSVD 18	230	480	1465	1800	700	62	No
VSVD 30	230	640	1420	3000	580	64	No
VSVD 36	230	900	1365	3600	500	66	No
VSVD 43	230	1430	1370	4300	700	68	No
VSVD 54	380	1430	1320	5400	665	72	No
VSVD 3E	230	150	2710	300	451	50	Yes

* 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 above follow the current curve points, rounded to the nearest Pa. Small differences between nominal airflow and curve endpoints arise from the retained vector sampling.

The voltage is listed without assuming a phase count. Rated current and mass are not supplied. Published power and speed remain their original catalogue references.

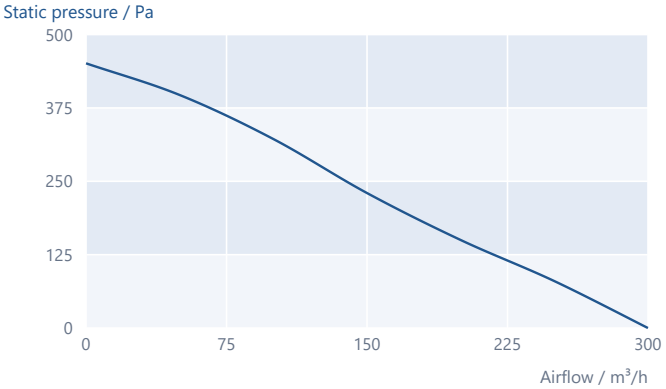
Manual operation is available on 3E only; no separate manual-mode airflow or pressure curve is supplied.

04 / AIR PERFORMANCE

Fan Performance Curves

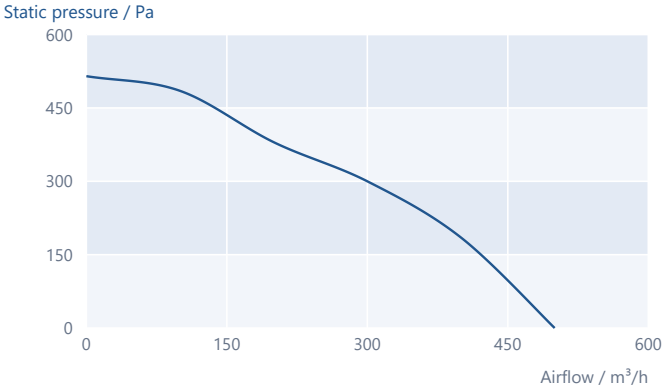
VSVD 3

230 V / 50 Hz / electrical performance reference



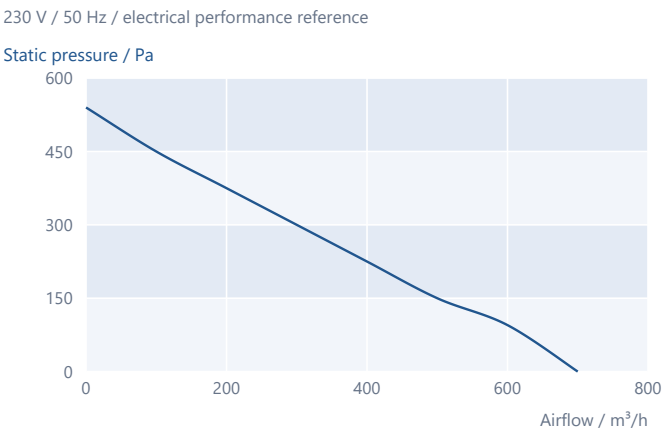
VSVD 5

230 V / 50 Hz / electrical performance reference



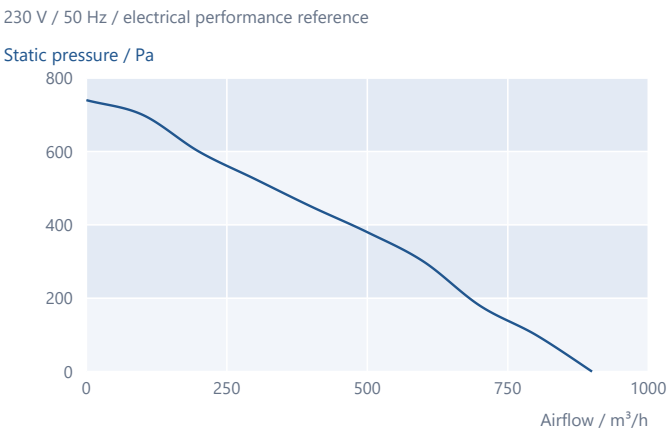
VSVD 7

230 V / 50 Hz / electrical performance reference



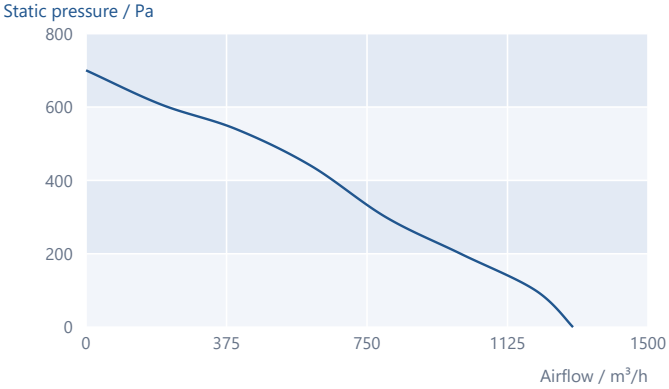
VSVD 9

230 V / 50 Hz / electrical performance reference



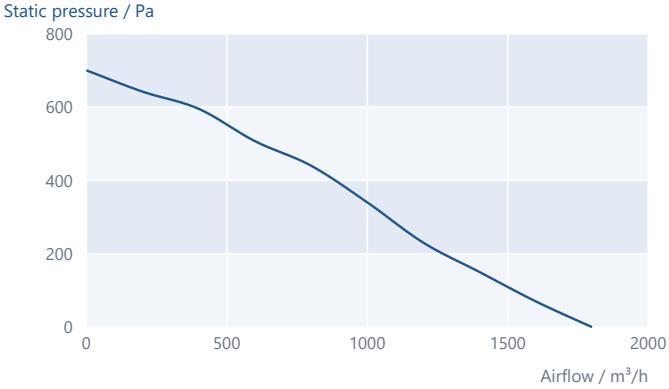
VSVD 13

230 V / 50 Hz / electrical performance reference



VSVD 18

230 V / 50 Hz / electrical performance reference



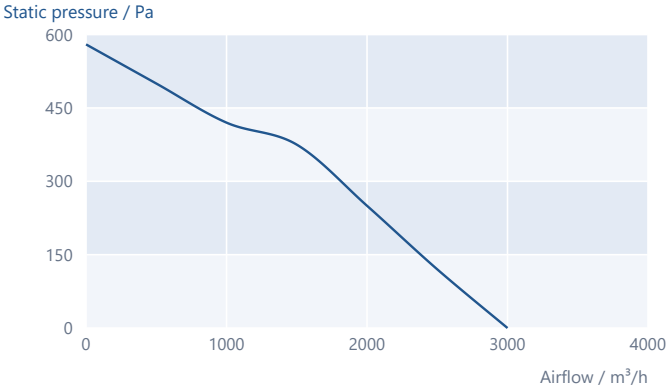
Original 50 Hz vector-sampled curve points and domains retained. No re-fitting, speed conversion or extrapolation. Model-specific scales.

04 / AIR PERFORMANCE

Fan Performance Curves

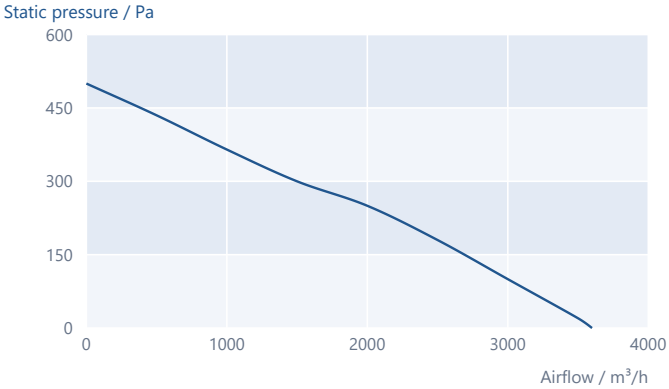
VSVD 30

230 V / 50 Hz / electrical performance reference



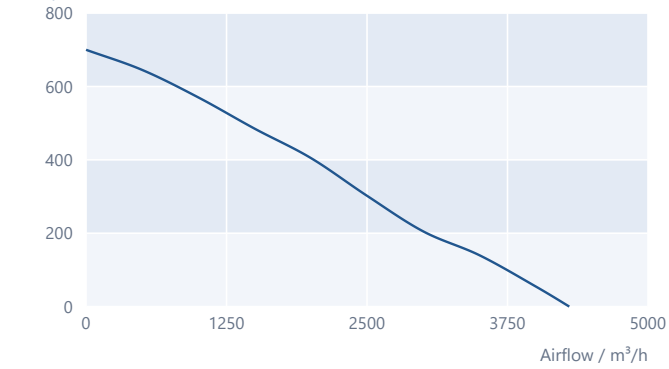
VSVD 36

230 V / 50 Hz / electrical performance reference



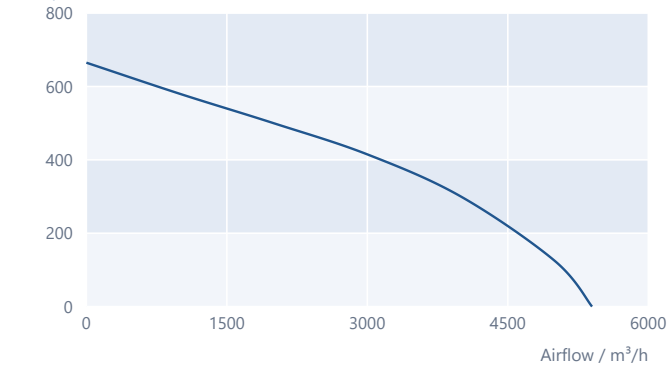
VSVD 43

230 V / 50 Hz / electrical performance reference



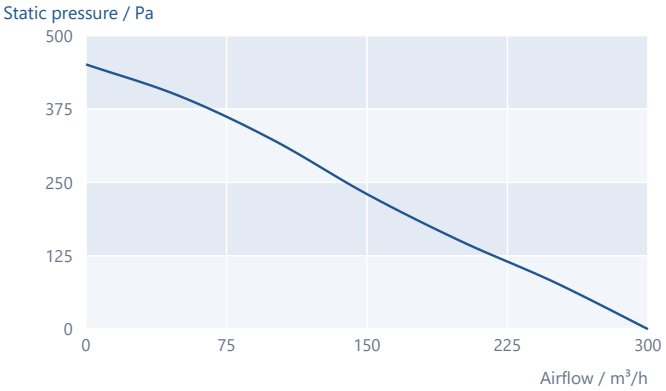
VSVD 54

380 V / 50 Hz / electrical performance reference



VSVD 3E

230 V / 50 Hz / electrical performance reference



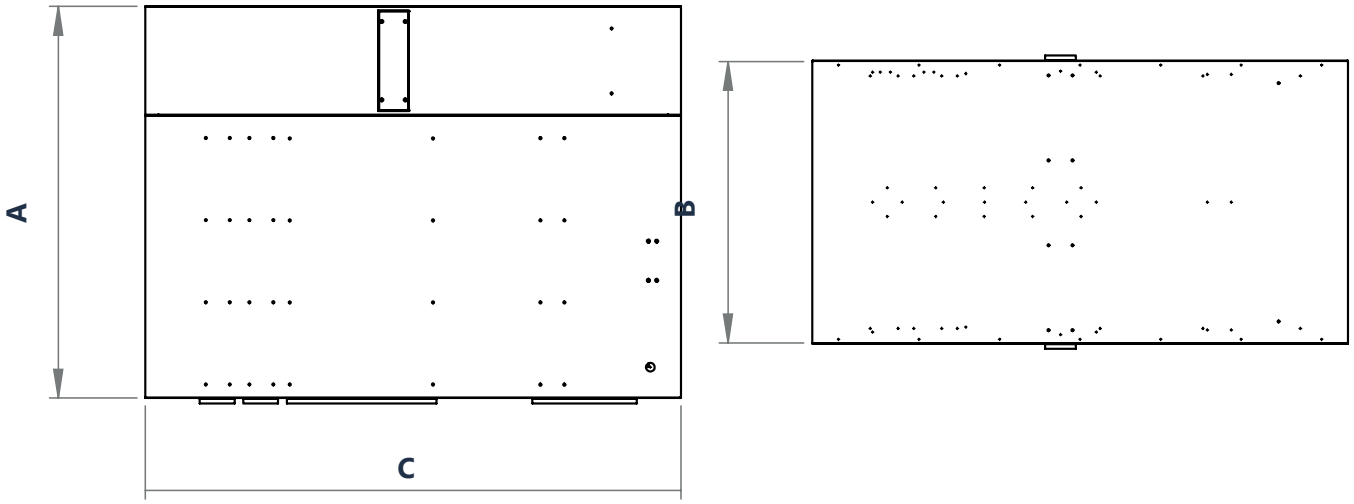
Original 50 Hz vector-sampled curve points and domains retained. No re-fitting, speed conversion or extrapolation. Model-specific scales. The 3E curve is an electrical reference; manual-mode performance is not supplied.

05 / DIMENSIONS

Coordinate the cabinet and access.

REPRESENTATIVE SERIES OUTLINE

All dimensions in mm



Model	A	B	C
VSVD 3	400	300	1010
VSVD 5	500	350	1250
VSVD 7	500	350	1250
VSVD 9	500	350	1250
VSVD 13	900	350	1300
VSVD 18	900	450	1280
VSVD 30	900	650	1360
VSVD 36	900	650	1360
VSVD 43	900	650	1360
VSVD 54	1300	650	1350
VSVD 3E	600	400	1380

Use the row for the selected model, including the distinct 3E cabinet. The original outline is representative and is not drawn to scale. Keep filter-removal and service access clear.

06 / INSTALLATION & ELECTRICAL

Plan the connection and access.

MODEL-SPECIFIC SUPPLY REFERENCES

Supply / parameter	VSVD model or available information
230 V / 50 Hz	3, 5, 7, 9, 13, 18, 30, 36, 43 and 3E
380 V / 50 Hz	VSVD 54
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.

VSVD 3E / MANUAL BACKUP

Identify the selected drive.

The 3E variant includes a hand crank. Its listed 50 Hz electrical ratings and curve do not establish manual-mode performance. Retain the complete 3E model identity when specifying the cabinet and drive.

FILTER AND DAMPER ACCESS

Provide service clearance.

Allow removal of each installed filter section and operation of the damper. Confirm the available pressure with the required duct system and filter condition; inspect the filter sections as part of routine maintenance.

The filter names identify the installed stages. Select the exact filter set and operating air path for the application, and retain the supplied unit and filter documentation.

VSVD

Shelter ventilation devices

VOLTVENT®
VENTILATION SYSTEMS

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