VDHF SERIES

HEPA-filtered duct fans

VDHF

G4 / ACTIVATED CARBON / H13

GALVANIZED STEEL CABINET



800-4500
Nominal airflow / m^3/h at 0 Pa

05
Models in the range

50 Hz
Supply frequency

01 / PRODUCT OVERVIEW

Three stages of ducted air filtration.



01 Cabinet and impeller

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

02 Three standard filter stages

G4 dust prefilter, activated carbon filter and an H13 HEPA final stage provide coarse-particle, odour and fine-particle filtration.

03 Access for routine service

Keep every filter section accessible. Confirm the required airflow and pressure with the specified filter configuration before selecting the installed duty.

STANDARD FILTER STAGES

G4 prefilter → **Activated carbon** → **H13 HEPA filter**

Functional sequence; component positions are schematic. The approved photo illustrates the series construction.

SERIES AT A GLANCE

Selection parameter	Series reference
Nominal airflow / 0 Pa	800-4500 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 / activated carbon / H13 HEPA

Nominal airflow only at 0 Pa. Pressure verification is required for the installed duty; pressure curves are not supplied for this series.

02 / TECHNICAL DATA

Compare the nominal air delivery.

05 CONFIGURATIONS / AC DRIVE / 50 Hz

Model	Supply V	Power W	Speed rpm	Nominal Q / 0 Pa m^3/h	Noise* dB(A)
VDHF 10	230	104	2675	800	50
VDHF 20	230	130	2685	1500	52
VDHF 30	230	180	2615	2000	54
VDHF 40	230	380	1365	3500	56
VDHF 50	230	690	1365	4500	59

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

These are nominal catalogue references at 0 Pa. The current data do not include pressure curves or a verified pressure maximum. Nominal airflow does not establish airflow against the installed filter and duct resistance.

NOMINAL AIRFLOW BASIS

Performance reference	Available data
Selection basis	Nominal airflow only at 0 Pa
Pressure curves	Not supplied
Installed duty pressure	Verification required

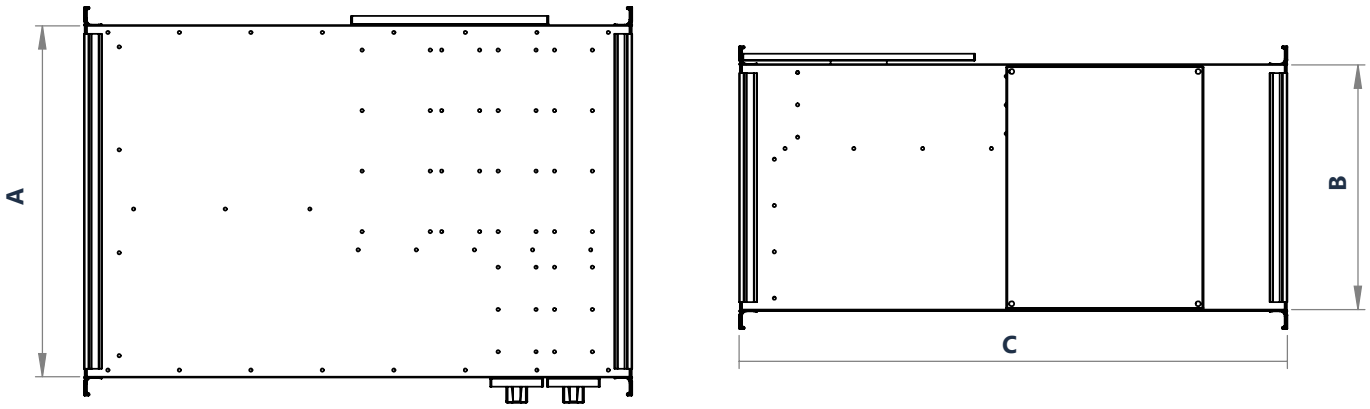
The voltage is listed without assuming a phase count. Rated current and mass are not supplied.

03 / DIMENSIONS

Coordinate the cabinet and filter access.

REPRESENTATIVE SERIES OUTLINE

All dimensions in mm



Model	A	B	C
VDHF 10	500	350	780
VDHF 20	500	350	800
VDHF 30	600	400	920
VDHF 40	975	400	1000
VDHF 50	975	400	1000

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

04 / INSTALLATION & ELECTRICAL

Plan the filters and the installed duty.

SUPPLY AND AVAILABLE ELECTRICAL DATA

Supply / parameter	VDHF 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 the G4 prefilter, carbon section and H13 HEPA stage accessible. Retain the specified filter arrangement and confirm replacement-filter dimensions for the selected unit.

PRESSURE VERIFICATION

Confirm the required duty.

The published nominal airflow is a 0 Pa reference. Pressure curves are not supplied. Verify that the configured unit can deliver the required airflow against the actual filter and duct resistance.

The filter names identify the published stages. Carbon performance depends on the contaminant and filter condition. Keep the selected unit and filter documentation with the installation and service records.

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