VLT-CAH SERIES

Compact air handling units

VLT-CAH

FILTRATION / AIR MOVEMENT / THERMAL OPTIONS



1,000-6,250

m^3/h / existing range schedule

01 / RANGE OVERVIEW

Air treatment in one unit.

Coordinate filtration, air movement and thermal treatment around the available plant space.

APPLICATION

For comfort ventilation in commercial interiors, including offices, retail and shared spaces. Select the arrangement for the required air conditions, duct route and service access.



CONFIGURATION

The existing range specification describes double-skin insulated construction, EPDM seals and 40-60 mm panel options. Material finish and final build-up are confirmed for the selected project.

1 Air treatment

Filter and coil options are selected around the application.

2 Drive options

AC or EC fan arrangements require model-specific selection.

IN THIS CATALOGUE

Model schedule 03

Air path & components 04

Dimensions & interfaces 05

Installation & service 06

Controls & project selection 07

02 / MODEL SCHEDULE

Seven sizes. One range.

Recorded Voltvent project schedule. Airflow is shown in m^3/h for every model.

Model	Scheduled airflow m^3/h	Recorded power* W	Supply V / Hz	Speed rpm
VLT-CAH 1010	1,000	170	380 / 50	1,400
VLT-CAH 1018	1,850	172	380 / 50	1,400
VLT-CAH 1027	2,750	350	380 / 50	1,400
VLT-CAH 1036	3,750	565	380 / 50	1,400
VLT-CAH 1045	4,600	760	380 / 50	1,400
VLT-CAH 1055	5,500	1,200	380 / 50	1,400
VLT-CAH 1060	6,250	1,500	380 / 50	1,400

*Power is the existing motor-power entry. Its fan quantity and input/shaft basis require confirmation; it is not a total unit or heater electrical load.

HOW TO READ THE AIRFLOW

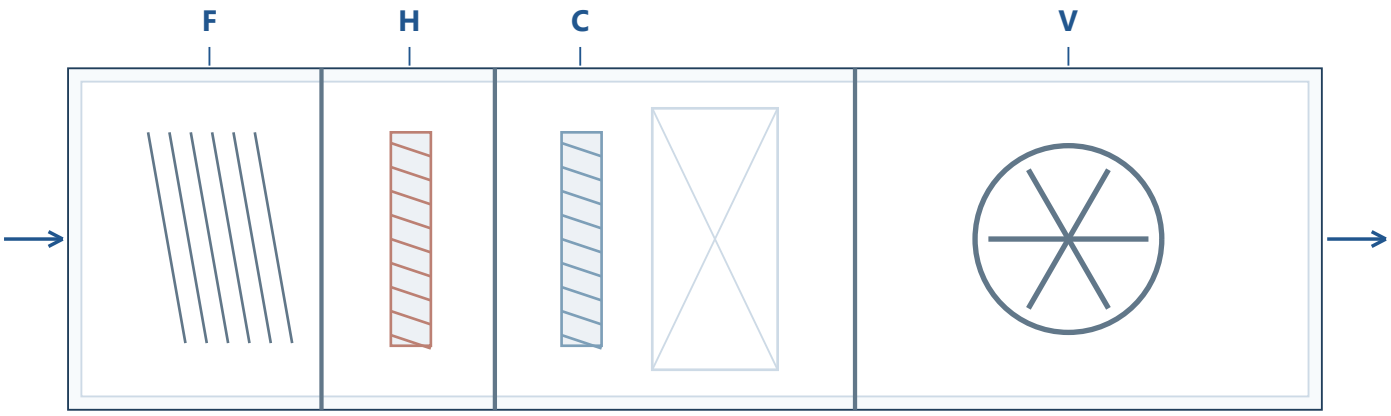
The available schedule does not state a common external static pressure or the filter-loading condition. These numbers are range-selection references, not guaranteed duty points. Confirm airflow and pressure together before final selection.

Fan pressure curves, sound data, filter classes, coil duties, full-load current and unit weight must be supplied for the final selected configuration.

03 / AIR PATH & COMPONENTS

A coordinated air path.

The existing single-level section places the filter, heating/cooling options and fan along one air stream.



Illustrative single-level arrangement. Final component order, airflow direction and coil selection follow the selected configuration.

F Filtration

Specify the filter class, face area, access side and clean/loaded pressure allowance.

H Heating

Water-side or electric heating is a selected option. Confirm duty and protection.

C Cooling

Water or DX treatment requires selected conditions, drainage and service access.

V Fan & drive

Confirm motor type and fan selection against all internal and duct-system losses.

The diagram is illustrative and not to scale. Heat recovery, bypass sections and additional treatment are project options; they are not included by default in this single-level arrangement.

04 / DIMENSIONAL PROPOSAL

Reference casing envelopes.

Proposed dimensions in mm. The seven-model performance schedule is retained independently.



Outline views are not to scale. L = casing length, W = casing width, H = casing height. The duct size is a proposed clear opening; flange details and connection positions require the final drawing.

VLT-CAH model	L mm	W mm	H mm	Duct clear opening mm
VLT-CAH 1010	1150	500	341	300 x 150
VLT-CAH 1018	1250	600	392	400 x 200
VLT-CAH 1027	1350	700	432	500 x 250
VLT-CAH 1036	1250	800	502	600 x 300
VLT-CAH 1045	1250	1000	552	800 x 350
VLT-CAH 1055	1250	1000	552	800 x 350
VLT-CAH 1060	1250	1000	552	800 x 350

DIMENSIONAL DESIGN PROPOSAL - The 1045, 1055 and 1060 models share the largest proposed casing envelope. These dimensions are adopted for review; they are not verified manufacturing dimensions or evidence of achievable airflow. Final envelope, coils, fan fit, connection positions, support layout and component access require a unit-specific drawing.

05 / INSTALLATION & SERVICE

Plan access before placement.

Coordinate the real unit, its support strategy and maintenance route with the building design.



Installation coordination view using the approved product visual. Support hardware, service clearances and connection sizes must follow the final project drawing.

1 Support the unit

Confirm mass and designated structural support points. Select isolation for the actual duty.

2 Keep access clear

Provide a route for filters, coils and fan removal; keep valves and wiring accessible.

3 Connect & commission

Coordinate ducts and flexible interfaces, then verify airflow, drains and controls.

Water-coil connections, drain traps, electrical isolation and protection are determined by the final equipment schedule and installation documents. No anchor, load, torque or clearance value is assumed.

06 / CONTROLS & PROJECT SELECTION

Define the duty. Then select.

A complete selection brings air-side duty, thermal duty, controls and installation constraints together.

Selection input	Project definition
Air-side duty	Design m^3/h, external static pressure and filter allowance
Air conditions	Outdoor / entering / leaving dry-bulb and humidity
Thermal treatment	Water / DX / electric; selected heating and cooling duty
Electrical supply	Confirm actual supply, current, protections and heater load
Control sequence	Enable, speed, temperature, alarms and safe shutdown
BMS interface	Required protocol and points; confirm supplied capability
Installation	Envelope, duct sizes, access, drainage and support layout

FINAL SELECTION DELIVERABLES

Request the unit-specific fan curve, component pressure losses, thermal selection, acoustic data, dimensional drawing and electrical/control schematic. Confirm which sensors, actuators and interfaces are included in the order.

Proposed casing and duct dimensions are proposals for this review. The original airflow and electrical schedule is retained; final fan/coil selection and manufacturing drawings remain required.

VOLTVENT®
VENTILATION SYSTEMS

VLT-CAH

Compact air handling units



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