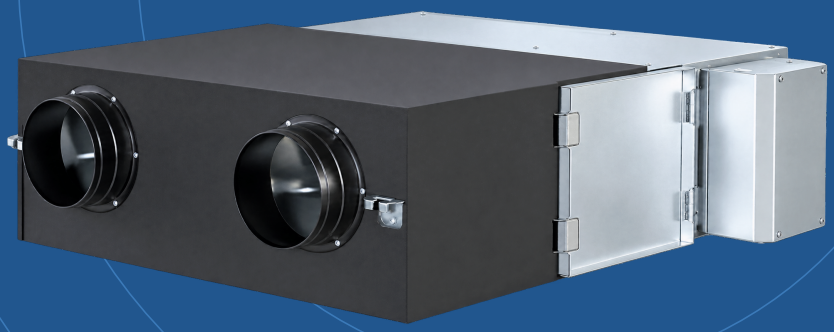
VHRU-S SERIES

Ceiling enthalpy recovery units

VHRU-S

CELLULOSE ENTHALPY EXCHANGER

HIGH / MEDIUM / LOW



400-5000
Airflow at 0 Pa / m^3/h

08
Models in the range

3
Speed settings

01 / PRODUCT OVERVIEW

Recover energy. Renew the air.



01 Sensible and latent recovery

A cellulose crossflow enthalpy exchanger transfers heat and moisture between separate supply and extract air streams.

02 Insulated ceiling installation

The low-profile cabinet provides thermal and acoustic insulation, with service access for filters and internal components.

03 Three published speed settings

Separate AC plug fans serve the supply and extract air paths. High, Medium and Low curves support selection at each setting.

ACCESS FOR MAINTENANCE

Plan both the service opening and the clear space below the unit. Model-specific dimensions and the installation arrangement are shown on pages 6 and 7.

SERIES AT A GLANCE

Selection parameter	Series reference
Electrical supply	230 V / 1 phase / 50 Hz
Fan technology	AC plug fans / High, Medium and Low
Heat exchanger	Cellulose crossflow enthalpy
Filters	G class synthetic
Temperature efficiency	Airflow-dependent curve / EN 308 reference

The product image represents the circular-duct configuration. Models 3000 and 4000 have rectangular duct connections. Optional EC variants, heaters and controls require their own verified configuration data.

02 / TECHNICAL DATA

Compare the series at a glance.

NOMINAL AIRFLOW / MAXIMUM UNIT INPUT / 50 Hz

Model	Airflow at 0 Pa m^3/h	Max. unit input W	Current A	Unit mass kg	Sound pressure* dB
VHRU-S 325	400	170	0.74	36.5	35
VHRU-S 650	640	244	1.08	50	36
VHRU-S 1000	1060	350	1.54	84	36
VHRU-S 1500	1400	688	3.02	102	41
VHRU-S 2000	2050	810	3.84	118	45
VHRU-S 2500	2550	810	3.84	122	49
VHRU-S 3000	3250	1040	4.58	225	50
VHRU-S 4000	5000	2640	11.78	280	52

RATING CONDITIONS

Airflow values are the nominal zero-pressure ratings in Fan Selection. Maximum unit input power is the complete unit reference value; it is not a per-fan rating or an input-power curve at the selected duty point.

* Sound pressure is stated at 1.5 m and 250 Hz, in dB. This frequency-specific reference must not be read as an overall A-weighted sound level.

SELECT USING THE CURVES

Nominal airflow ratings and the endpoints of the published High-speed curves can differ. Pressure and temperature-efficiency plots retain their own original airflow ranges. Select only within the available curve data.

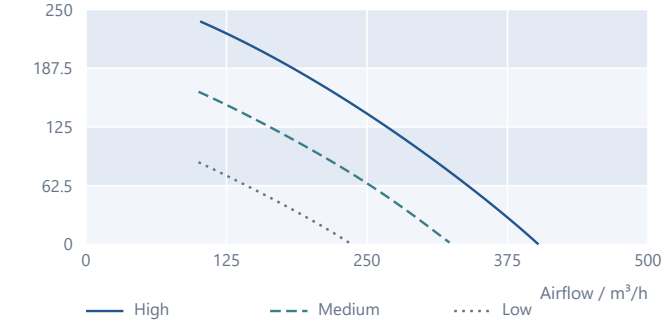
03 / AIR PERFORMANCE

Fan Performance Curves

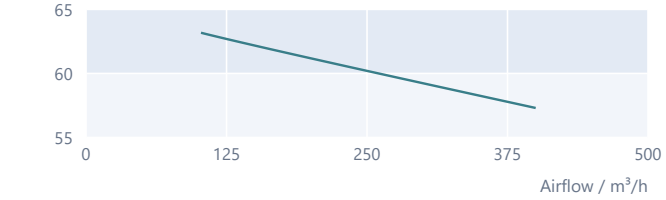
VHRU-S 325

230 V / 1 phase / 50 Hz

Static pressure / Pa



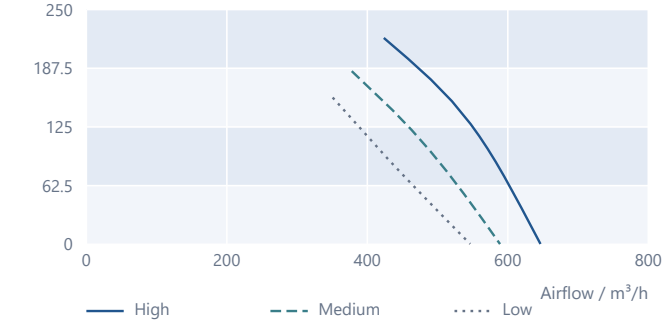
Temperature efficiency / %



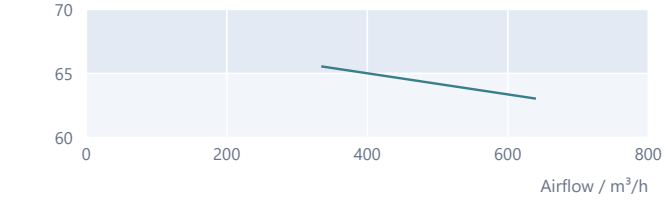
VHRU-S 650

230 V / 1 phase / 50 Hz

Static pressure / Pa



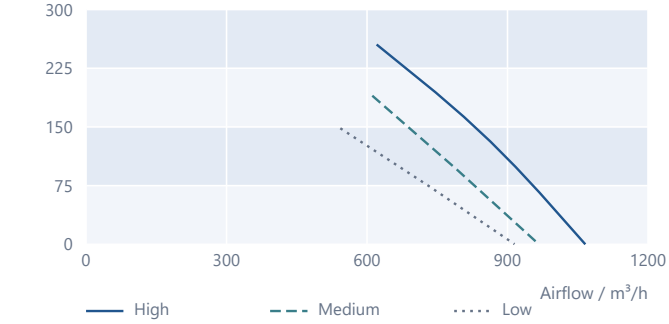
Temperature efficiency / %



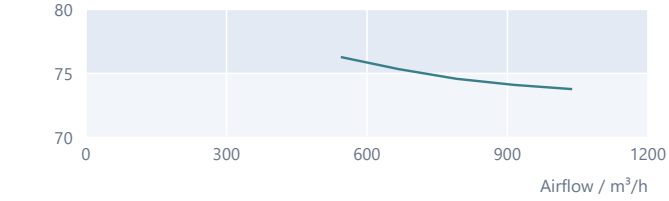
VHRU-S 1000

230 V / 1 phase / 50 Hz

Static pressure / Pa



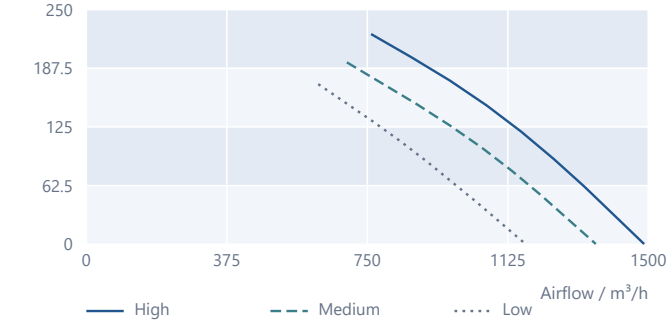
Temperature efficiency / %



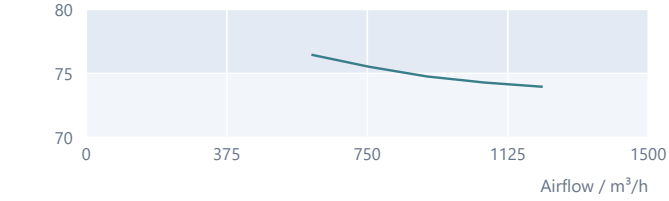
VHRU-S 1500

230 V / 1 phase / 50 Hz

Static pressure / Pa



Temperature efficiency / %



Model-specific scales. Pressure and temperature plots have independent airflow ranges. Original data retained without re-fitting or extrapolation; temperature efficiency follows the EN 308 reference curve.

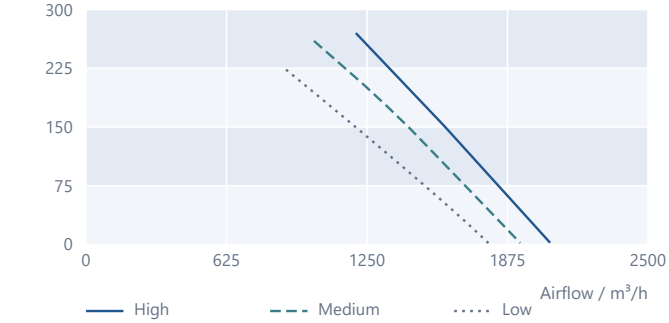
03 / AIR PERFORMANCE

Fan Performance Curves

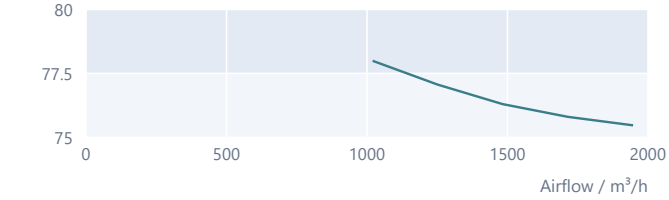
VHRU-S 2000

230 V / 1 phase / 50 Hz

Static pressure / Pa



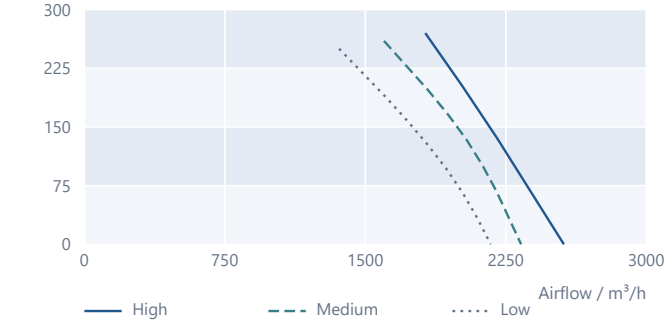
Temperature efficiency / %



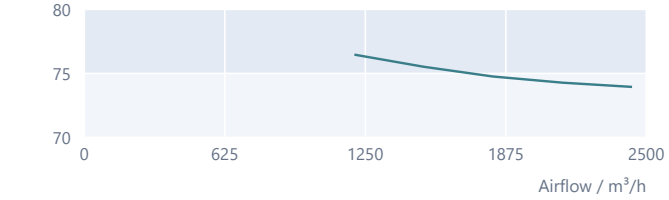
VHRU-S 2500

230 V / 1 phase / 50 Hz

Static pressure / Pa



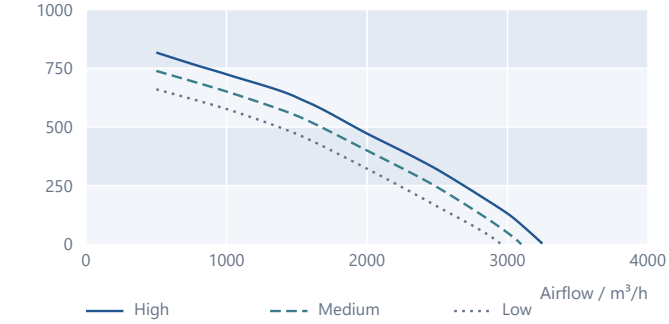
Temperature efficiency / %



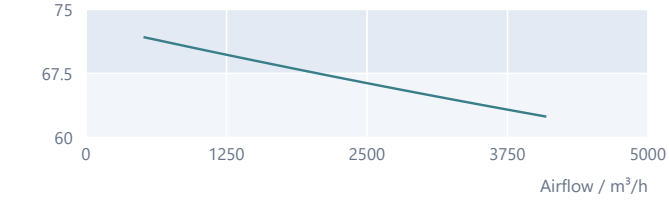
VHRU-S 3000

230 V / 1 phase / 50 Hz

Static pressure / Pa



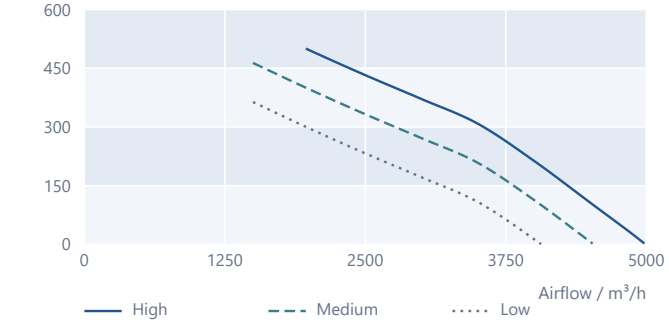
Temperature efficiency / %



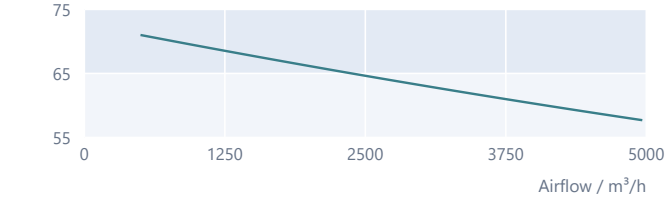
VHRU-S 4000

230 V / 1 phase / 50 Hz

Static pressure / Pa



Temperature efficiency / %



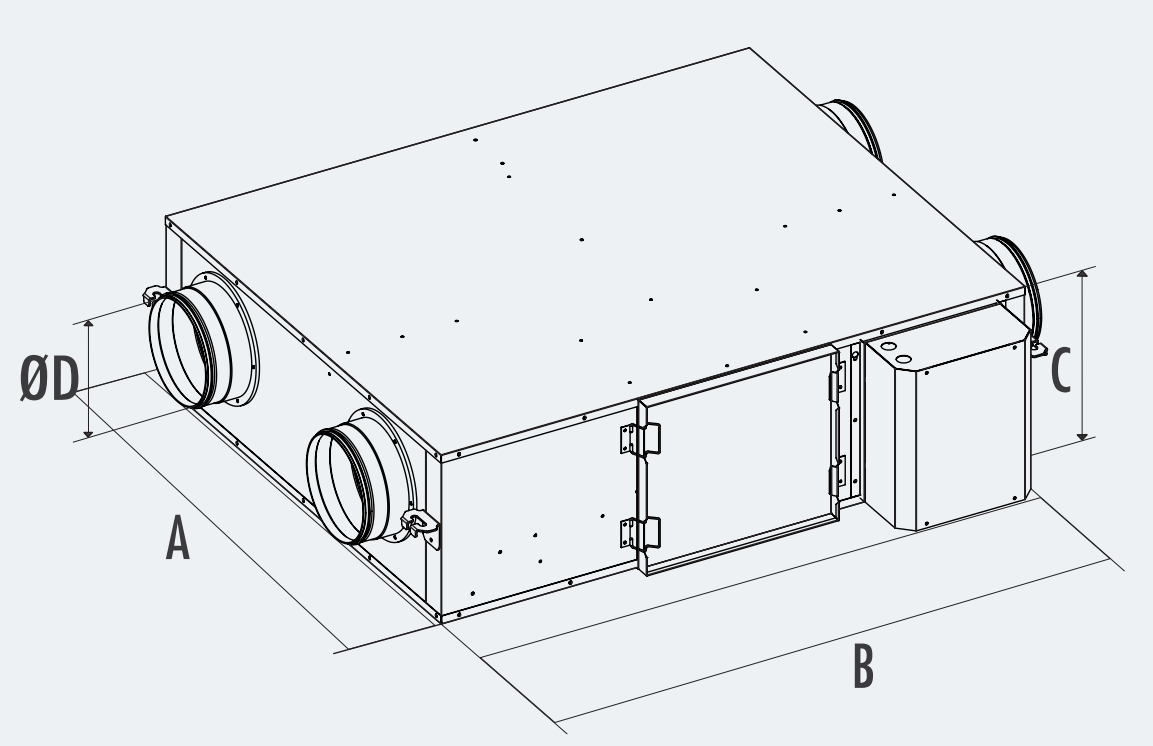
Model-specific scales. Pressure and temperature plots have independent airflow ranges. Original data retained without re-fitting or extrapolation; temperature efficiency follows the EN 308 reference curve.

04 / DIMENSIONS

Plan the space around the unit.

CIRCULAR-DUCT OUTLINE / MODELS 325-2500

All dimensions in mm



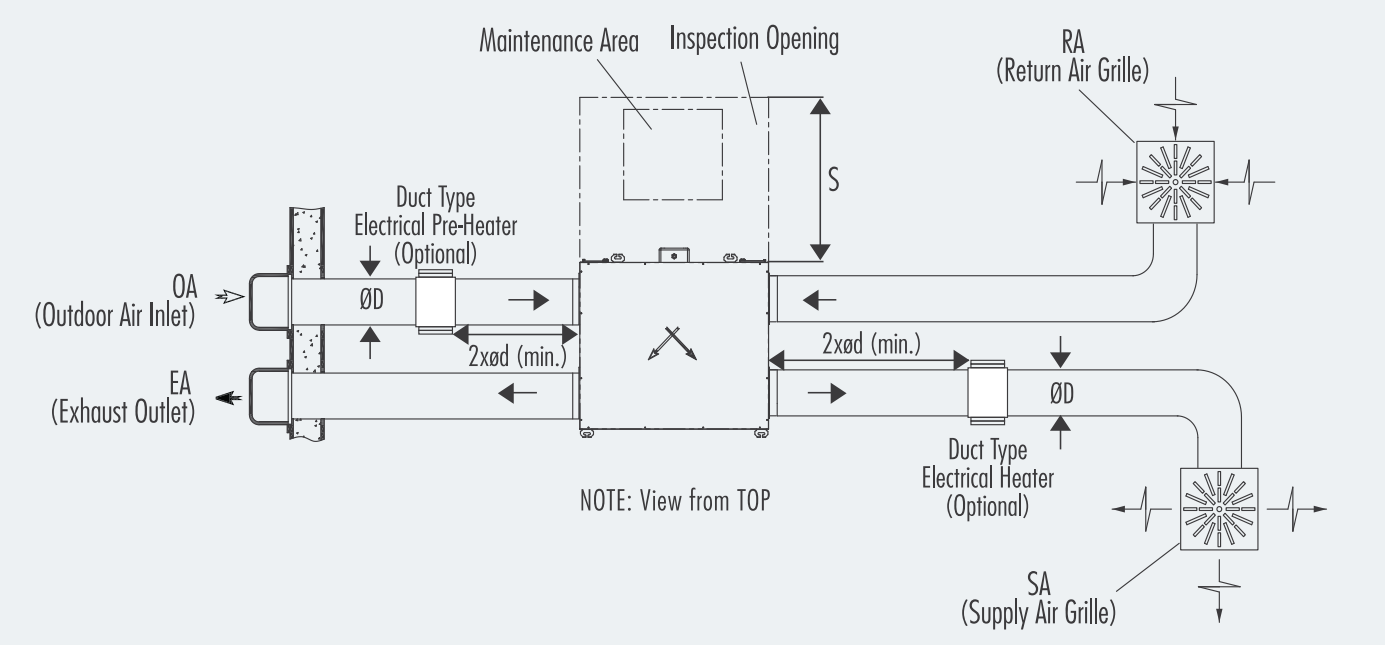
Model	A mm	B mm	C mm	Duct connection(s) mm	Service S mm
VHRU-S 325	758	985	275	Ø160	700
VHRU-S 650	665	1130	330	Ø200	600
VHRU-S 1000	925	1130	330	Ø250	600
VHRU-S 1500	1175	1150	330	Ø250	600
VHRU-S 2000	1125	1650	440	Ø300	700
VHRU-S 2500	1425	1650	440	Ø355	700
VHRU-S 3000	1570	2200	587	500x400 / 800x400	1100
VHRU-S 4000	1651	2200	650	550x450 / 800x450	1100

The outline represents models 325-2500. Models 3000/4000 use the rectangular connection pairs listed above. C is cabinet height; S is the required service area. Do not scale the drawing.

05 / INSTALLATION & SERVICE

Give maintenance room to work.

AIR PATHS AND ACCESS / TOP VIEW



SERVICE CLEARANCE

Provide the service area S listed on page 6 and an inspection opening for maintenance. For fan service, also leave vertical clearance equal to cabinet height C below the unit. Keep filters and service components accessible.

ELECTRICAL SUPPLY & OPTIONAL HEATERS

Supply: 230 V / 1 phase / 50 Hz. A verified VHRU-S electrical connection diagram is not available in the current technical record; use the documentation supplied with the ordered unit. The duct heater and pre-heater symbols above represent optional equipment, separate from the listed maximum unit input.

FILTER ACCESS

G class synthetic filters require inspection and replacement access. Confirm duct positions, inspection openings and the ordered accessory arrangement before installation.

VHRU-S

Ceiling enthalpy recovery units

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VENTILATION SYSTEMS