VHRU-B SERIES

Ceiling mounted heat recovery units

VHRU-B

PLATE HEAT EXCHANGER

TWO AC FANS / INSULATED CABINET



1000-6000
Nominal airflow / m^3/h

06
Models in the range

50 Hz
Single-phase AC

01 / PRODUCT OVERVIEW

Fresh air. Recovered heat.



01 Separate supply and extract paths

A plate heat exchanger recovers energy from extract air. The supply and exhaust air streams travel through separate paths within the unit.

02 A cabinet for ceiling installation

The galvanized-steel casing has insulated panels, a condensate tray and service access. Provide suitable supports, drainage and maintenance clearance.

03 Two AC external-rotor fans

The published performance curve describes one air path at the reference 50 Hz setting. Optional electric duct heating is selected and specified separately.

ACCESS FOR MAINTENANCE

Keep fan, filter and heat-exchanger service areas accessible. Confirm the filter specification and replacement access for the selected unit configuration.

SERIES AT A GLANCE

Selection parameter	Series reference
Motor arrangement	Two AC external-rotor fans
Fan electrical supply	230 V / 1 phase / 50 Hz
Motor insulation / protection	Class F / IP44
Maximum air temperature	+40 °C
Thermal recovery	Model-specific percentage not supplied

The performance and electrical ratings refer to the verified fan selection data. Heat-exchanger recovery is separate from fan efficiency; no climate-specific thermal result is inferred.

02 / TECHNICAL DATA

Compare the unit ratings.

FAN SUPPLY 230 V / 1 PHASE / 50 Hz

Model	Nominal airflow m^3/h	Nominal fan power / W	Nominal fan current / A	Speed rpm	Unit weight kg
VHRU-B 1000	1000	370	1.8	1400	80
VHRU-B 2000	2000	520	2.3	1420	113
VHRU-B 3000	3000	800	3.4	1430	160
VHRU-B 4000	4000	1400	6.2	1435	195
VHRU-B 5000	5000	1900	9	1280	215
VHRU-B 6000	6000	2000	9	1250	240

FAN RATING BASIS

Nominal fan power and current follow the published selection data without multiplication. They are not a declared two-fan unit total and exclude optional heating. The pressure curve represents one air path; neither pressure nor airflow is doubled.

Model	Sound pressure at 3 m dB(A)	Optional electric heater kW
VHRU-B 1000	45	3
VHRU-B 2000	46	3
VHRU-B 3000	48	5
VHRU-B 4000	49	8
VHRU-B 5000	54	10
VHRU-B 6000	57	13

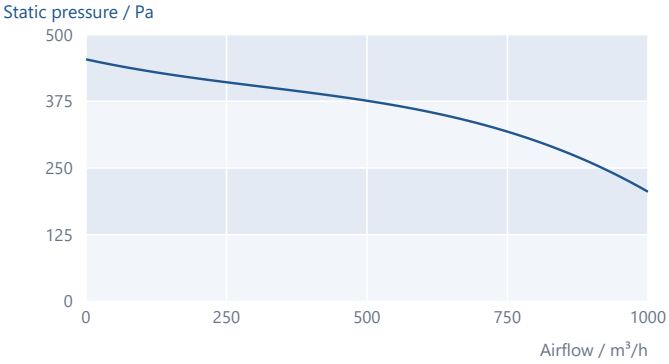
Sound pressure is a catalogue reference measured at 3 m in room conditions. Heater ratings are additional; heater supply, control and installation requirements are specified separately.

03 / AIR PERFORMANCE

Fan Performance Curves

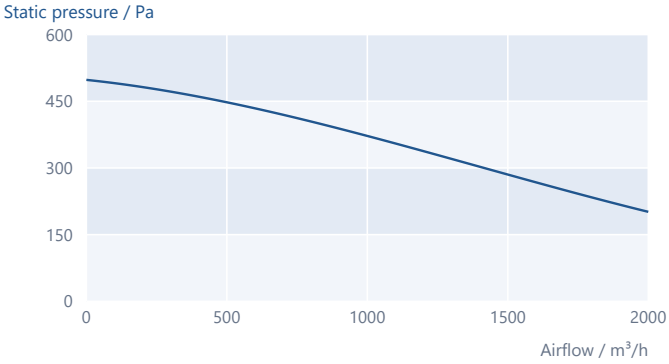
VHRU-B 1000

230 V / 1 phase / 50 Hz / one air path



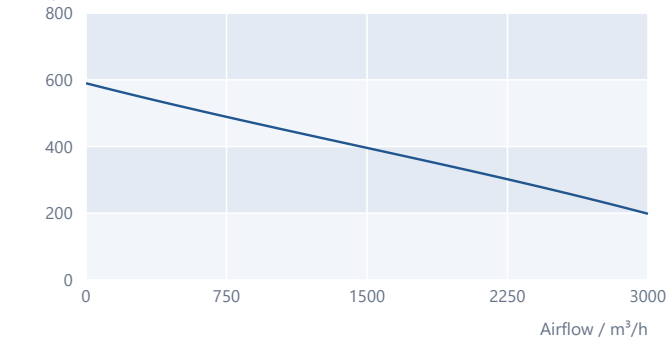
VHRU-B 2000

230 V / 1 phase / 50 Hz / one air path



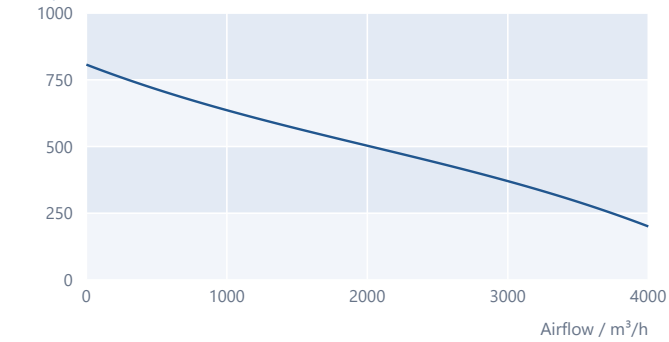
VHRU-B 3000

230 V / 1 phase / 50 Hz / one air path



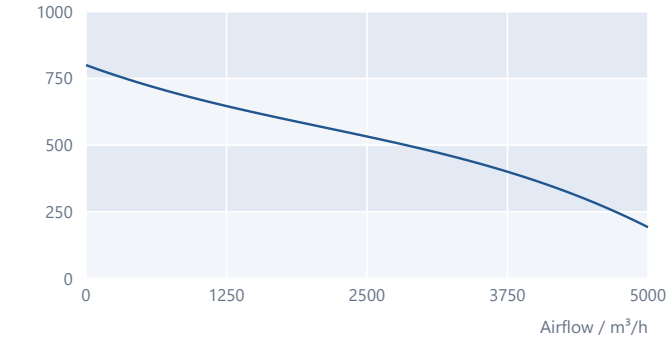
VHRU-B 4000

230 V / 1 phase / 50 Hz / one air path



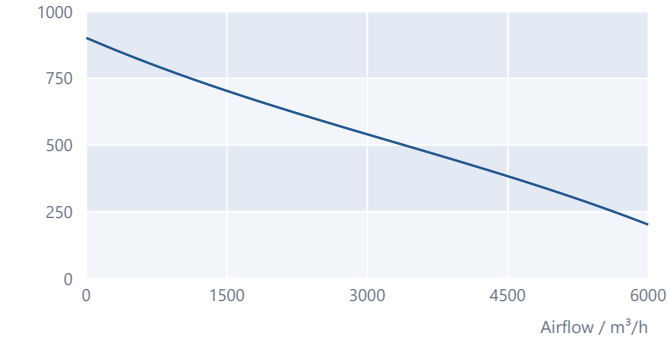
VHRU-B 5000

230 V / 1 phase / 50 Hz / one air path



VHRU-B 6000

230 V / 1 phase / 50 Hz / one air path



One-air-path curves at the published setting. Each chart has its own scale. Curves stop at the published airflow limit, with positive pressure remaining; they are not extended to a zero-pressure intercept.

04 / ACOUSTIC DATA

Understand the sound profile.

REFERENCE SOUND POWER LWA / dB(A)

Model	Path	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall
VHRU-B 1000	Inlet	55	67	64	67	66	62	54	44	73
VHRU-B 1000	Outlet	74	84	78	82	81	78	70	60	88
VHRU-B 1000	Housing	49	37	50	67	66	65	59	47	71
VHRU-B 2000	Inlet	54	66	63	66	65	61	53	43	72
VHRU-B 2000	Outlet	74	84	78	82	81	78	70	60	88
VHRU-B 2000	Housing	50	38	51	68	67	66	60	48	72
VHRU-B 3000	Inlet	46	58	55	58	57	53	45	35	64
VHRU-B 3000	Outlet	70	80	74	78	77	74	66	56	84
VHRU-B 3000	Housing	52	40	53	70	69	68	62	50	74
VHRU-B 4000	Inlet	46	58	55	58	57	53	45	35	64
VHRU-B 4000	Outlet	72	82	76	80	79	76	68	58	86
VHRU-B 4000	Housing	53	41	54	71	70	69	63	51	75
VHRU-B 5000	Inlet	51	63	60	63	62	58	50	40	69
VHRU-B 5000	Outlet	73	83	77	81	80	77	69	59	87
VHRU-B 5000	Housing	58	46	59	76	75	74	68	56	80

REFERENCE CONDITIONS

Inlet, outlet and housing spectra are published sound-power references for one air path. Overall values are retained as supplied. They are separate from the sound-pressure ratings at 3 m on page 3 and are not recalculated for an installation or duty point.

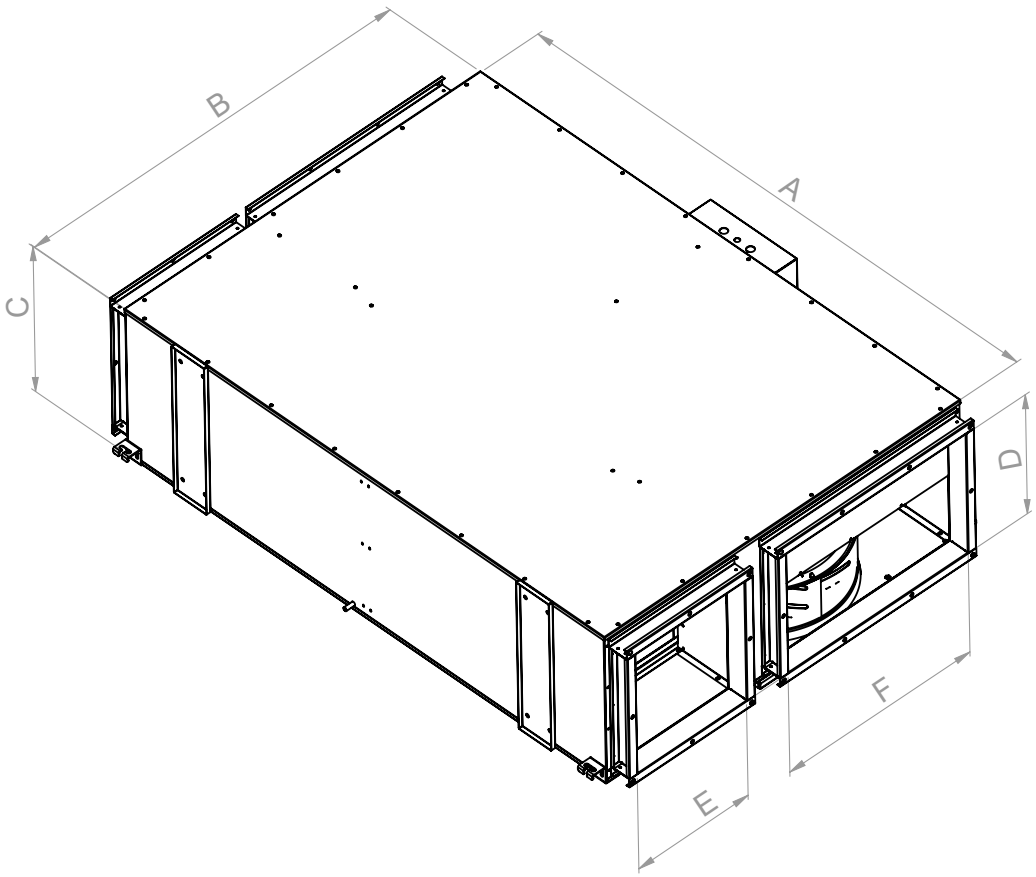
VHRU-B 6000: sound pressure at 3 m is 57 dB(A). A verified octave-band spectrum is not supplied for this model.

05 / DIMENSIONS

Plan the ceiling installation.

ORIGINAL SERIES OUTLINE / A-F

All dimensions in mm



Model	A	B	C	D	E	F
VHRU-B 1000	1100	900	315	220	200	455
VHRU-B 2000	1200	1000	365	270	300	455
VHRU-B 3000	1500	1200	415	320	400	555
VHRU-B 4000	1700	1200	475	380	400	555
VHRU-B 5000	1800	1300	515	420	400	655
VHRU-B 6000	2000	1500	615	520	400	855

Use the selected model values and the original A-F definitions. Provide separate installation, drainage and service clearance; do not scale the drawing.

06 / ELECTRICAL & INSTALLATION

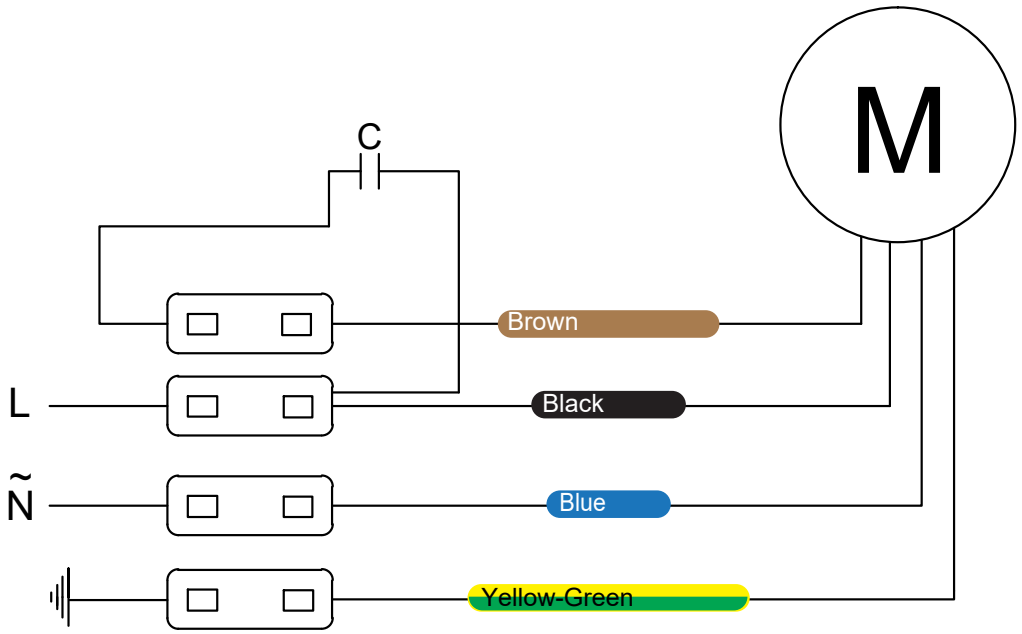
Connect the fan motors.

Fan supply: 230 V / 1 phase / 50 Hz. The verified diagram below shows a single fan motor connection. Complete unit controls and optional heater connections are specified separately.

VHRU-B 1000 / VHRU-B 2000

SINGLE FAN MOTOR

1



VHRU-B 3000 / 4000 / 5000 / 6000

A verified model-specific connection diagram is not supplied for these four sizes. Use the electrical documentation supplied with the selected unit; the diagram above is not assigned to them.

UNIT CONTROLS AND OPTIONAL HEATING

Confirm the fan motor terminals, unit controller and optional heater arrangement for the ordered configuration. Isolate electrical supplies before opening the unit. Keep the electrical enclosure and service panels accessible.

VHRU-B

Ceiling mounted heat recovery units

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VENTILATION SYSTEMS

info@voltvent.com | voltvent.com