

VHR 2005R

Heat Recovery Ventilator

Product #: 40063



Fantech's larger residential, full-featured HRV for large house projects that demand higher efficiency, the VHR2005R is designed for higher static pressure and higher airflow applications. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. The VHR 2005R is equipped with a recirculation defrost mechanism so you can use your HRV all year long.

Features

- Compact design
- Fans with backward curved RadiCAL blade
- Electrostatic filters (washable)
- Aluminum heat recovery core
- External screw type dry contacts
- Improved core guide channels for easy removal of core
- Weighs 45 lbs (20Kg)

Optional Controls

- ECO-Touch™ (#44929) — Programmable Touch Screen Wall Control
- EDF7 (#44883) — Electronic multi-function dehumidistat
- RTS3 (#40376) — 20/40/60 minute over-ride
- RTS2 (#40164) — 20 minute over-ride
- MDEH1 (#40172) — Dehumidistat

Specifications

- Duct size — 6" (152mm)
- Voltage/Phase — 120/1
- Power rated — 228 W
- Amp — 1.8 A
- Average airflow — 201 cfm (95 L/s)
@ 0.4" P_s (100Pa)

Fans

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

Heat Recovery Core

Aluminum heat recovery core configured for efficient cross-flow ventilation. Core is 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth. Cores are manufactured by Fantech to withstand extreme temperature variations.

Defrost

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Serviceability

Core, filters, fans and drain pan can be easily accessed through latched door. Core conveniently slides out on our new easy glide core guides. 17" (432 mm) of clearance is recommended for removal of core.

Duct Connections

6" (152 mm) plastic duct connections integrated with balancing damper.

Case

24 gauge galvanized steel. Baked powder coated paint.

Insulation

Cabinet is fully insulated with 1" (25 mm) high density expanded polystyrene.

Filters

Two (2) washable electrostatic panel type air filters 11.75" (298 mm) x 15" (380 mm) x 0.125" (3 mm).

Controls

External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see controls)

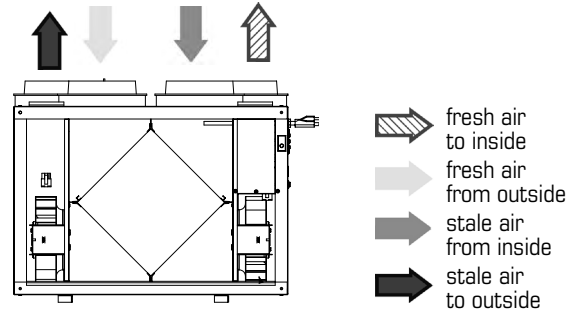
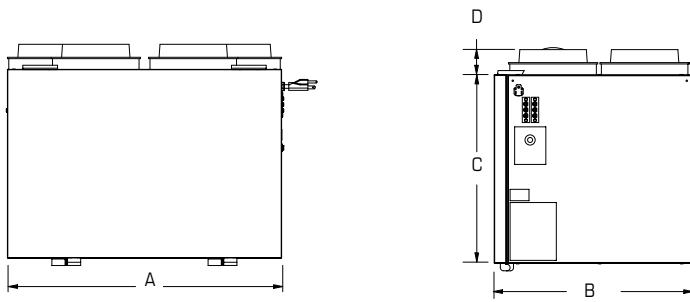
Drain

1/2" (13 mm) OD (outside diameter) drain spout provided, entire bottom of unit covered by drain pan.

Warranty

Limited lifetime on aluminum core, 7 year on motors, and 5 year on parts.

Dimensions & Airflow

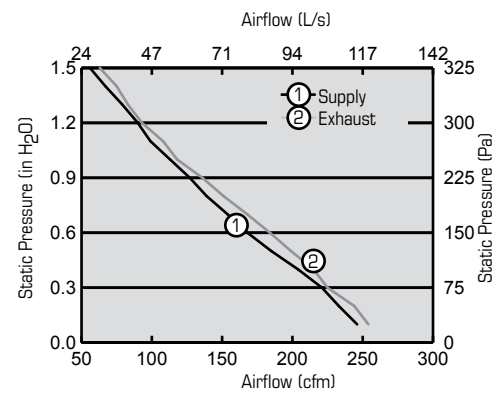


Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
VHR2005R	28	711	17 1/4	438	20 1/2	523	2 1/4	57

Clearance of 17" (432mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Ventilation Performance

in.wg. (Pa)	0.3 (75)	0.6 (150)	0.9 (225)	1.2 (300)	1.5 (375)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	218 (103)	166 (78)	125 (59)	88 (42)	55 (26)
Gross supply airflow	221 (104)	168 (79)	127 (60)	90 (42)	56 (26)
Gross exhaust airflow	225 (106)	184 (87)	136 (64)	93 (44)	63 (30)



Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery / moisture transfer
	°F	°C	cfm	L/s	W	%	%	-
	32	0	65	31	108	62	77	0.06
	32	0	117	55	154	62	74	0.07
	32	0	191	90	246	60	71	0.00
	-13	-25	126	59	141	64	81	0.01

Requirements and standards

- Complies with the UL 1812 requirements regulating the construction and installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with the CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of test relating to CSA C439 Standards
- HVI certified

Contacts

Submitted by: _____	Date: _____
Quantity: _____	Model: _____
Comments: _____	Project #: _____
Location: _____	
Architect: _____	
Engineer: _____	Contractor: _____

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