Specification Sheet

Item #: 450950
Rev Date: 011714

VHR70R

Heat Recovery Ventilator

Product #: 44695

VHR70R is a compact HRV specially designed for small residential and multi-residential applications such as condominiums and apartment buildings that require up to 70 CFM continuous principal ventilation. With its flexible and compact top port design incorporating the 5" oval collars with integrated airflow measurement and **EZ-Mount™** wall bracket, it can be installed in small spaces such as 24" closets or above the hot water heater. RESIDENTIAL USE ONLY

Features

- 5" (125mm) oval duct connections with integrated airflow measurement
- Removable screw terminal for easy connection
- Lightweight: only 30 lbs (13.5 kg) including core
- Super compact size
- Top port design fits in tight spaces
- Includes EZ-Mount wall bracket
- Aluminum heat recovery core
- Multiple speed operation
- Internal recirculation defrost

Optional Controls:

Speed control for Normal and Reduced speed standard on unit. Other operating modes available from optional controls below.

- Eco-Touch™ (#44007) – Programmable Touch Screen Wall Control
- RTS2 (#40164) – 20 minute timer over-ride
- RTS5 (#44794) – 20/40/60 minute timer
- EDF1R (#40393) – Triple function wall control
- MDEH1 (#40172) – Dehumidistat
- EDF1 (#40375) – Multi-Function control

Specifications

- Duct size – 5" (125 mm) oval
- Voltage/Phase – 120/1
- Power rated – 48 W
- Amperage – 0.4 A
- Average airflow @ 0.4" P_S (100Pa) – 58 cfm (27 L/s)

Motors

Two (2) factory-balanced motors with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation. Covered by a seven (7) year warranty.

Heat Recovery Core

Aluminum heat recovery core covered by a limited lifetime warranty. Core dimensions are 8.5" x 8.5" (216 x 216 mm) with a 8" (205 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

Winterguard™ Defrost

The VHR70R incorporates a unique and quiet internal recirculation defrost that does not depressurize the home during the defrost cycle. A preset defrost sequence is activated when the outdoor temperature falls below 23° F (-5° C) and automatically adjusts itself based on operating conditions. The fan speed is also adjusted automatically to provide a smooth and quiet transition between Ventilation & Defrost mode.

Serviceability

All serviceable internal components, including core, filters, motors and electronic board are easily accessible and can be fully removed in under 5 minutes for complete service. A 10" (250 mm) clearance from the front of the unit is recommended to fully remove the core and other internal components.

Duct Connections

5" (125mm) Oval plastic duct connections with integrated balancing damper and airflow measurement ports.

Case

24 gauge galvanized steel. Baked power-coated paint for a superior adhesion and resistance.

Insulation

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

Filters

Two (2) washable electrostatic panel type air filters 8.5" (216mm) x 8" (205 mm) x 0.125" (3mm).

Controls

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

Drain

1/2" (13mm) 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.

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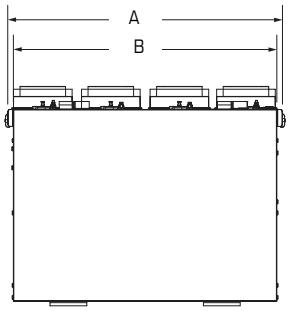
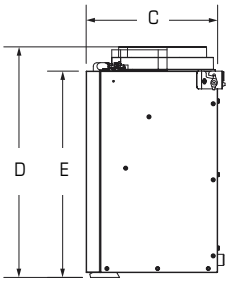
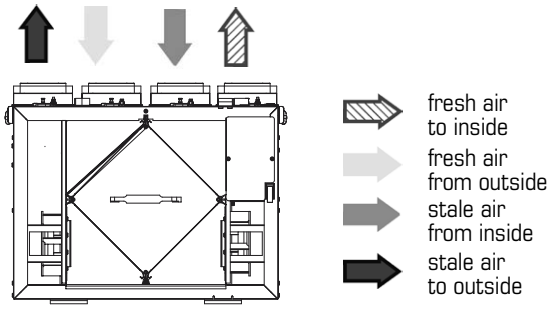
Dimensions & Airflow





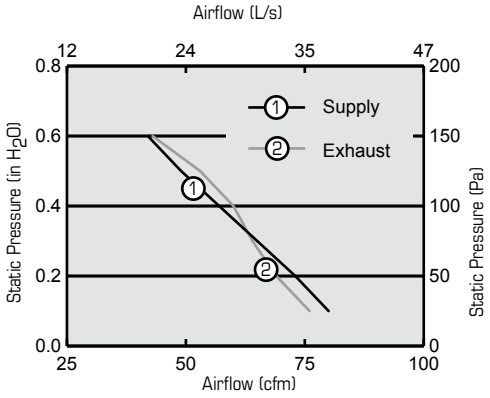


Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
VHR70R	22 1/2	569	21 1/2	546	10 1/5	259	17 3/16	437	16	406

Clearance of 10" (205mm) 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)	0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	80 (38)	73 (34)	65 (31)	57 (27)	49 (23)	42 (20)
Gross supply airflow	81 (38)	74 (35)	66 (31)	58 (27)	50 (23)	42 (20)
Gross exhaust airflow	76 (36)	69 (33)	64 (30)	60 (28)	53 (25)	43 (20)



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	42	20	36	65	74	0.01
	32	0	64	30	48	63	72	0.00
	-13	-25	47	22	40	62	79	0.02
	-13	-25	71	33	56	62	80	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 and ENERGY STAR® qualified*

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

Contacts

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

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