VHR 150R

Heat Recovery Ventilator
Product #: 44859

Features
- 6" (152mm) oval duct connections with integrated airflow measurement
- Compact design
- Fans with backward curved RadiCAL blade
- Electrostatic filters (washable)
- Aluminum heat recovery core
- Removable screw terminal for easy connection
- Lighweight 44 lbs (20Kg)
- Multiple speed operation
- Internal recirculation defrost

Optional Controls
- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- RTS2 (#40164) – 20 minute timer over-ride
- RTS5 (#44794) – 20/40/60 minute timer
- MDEH1 (#40172) – Dehumidistat

Specifications
- Duct size – 6" (152 mm) oval
- Voltage/Phase – 120/1
- Power rated – 156 W
- Amp – 1.2 A
- Average airflow – 159 cfm (75 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 an efficient cross-flow ventilation. Core is 9" x 9" (229 x 229 mm) with a 15" (380mm) depth. Cores are manufactured to withstand extreme temperature variations.

Wintergard™ Defrost
The VHR150R 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
Core, filters, fans, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 17" (432 mm) clearance.

Duct Connections
6" (152 mm) Oval plastic duct connections with integrated balancing damper and airflow measurement ports.

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 8.5" (216mm) x 15" (380 mm) x 0.125" (3mm).

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)
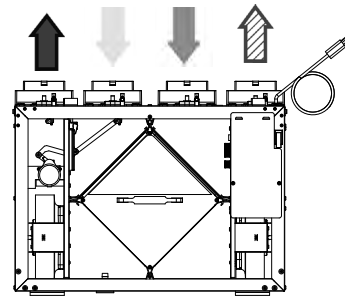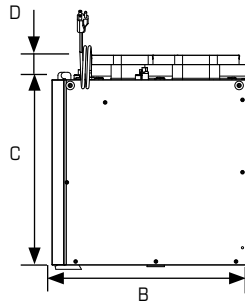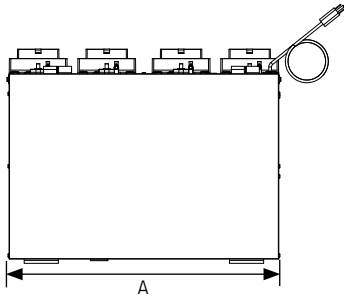
Installation
Unit is typically hung by using installation kit supplied with unit. Mounting bolts provided on top four (4) corners of unit.

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

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Dimensions & Airflow

fresh air
to inside

fresh air
from outside

stale air
from inside

stale air
to outside

Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
VHR150R	23 3/4	603	17 3/16	437	16 1/4	413	2 3/16	56

Clearance of 17" (432 mm) 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)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	181 (85)	157 (74)	134 (63)	111 (52)	87 (41)
Gross supply airflow	184 (87)	160 (76)	136 (64)	113 (53)	89 (42)
Gross exhaust airflow	184 (87)	160 (76)	136 (64)	113 (53)	89 (42)

Only the data of the normal speed are HVI certified.
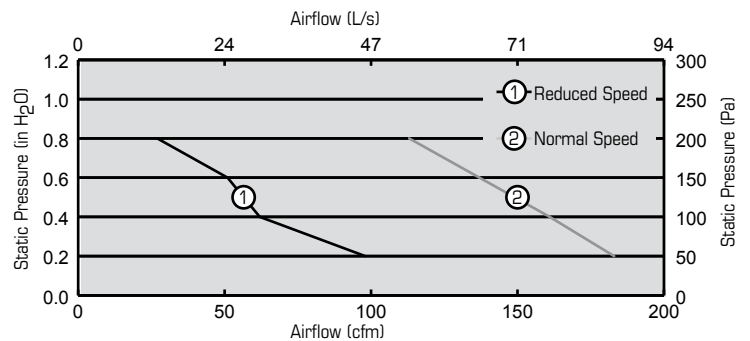
Energy performance

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	85	40	70	66	79	-0.01
	32	0	100	47	86	66	79	0.01
	32	0	187	88	156	55	64	0.01
	-13	-25	89	42	99	60	72	0.02

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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