

VHR 150R

Heat Recovery Ventilator

Product #: 99204



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
- Lightweight 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
- EDF1R (#40393) – Multi-function control
- 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 pre-painted steel corrosion resistant

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)

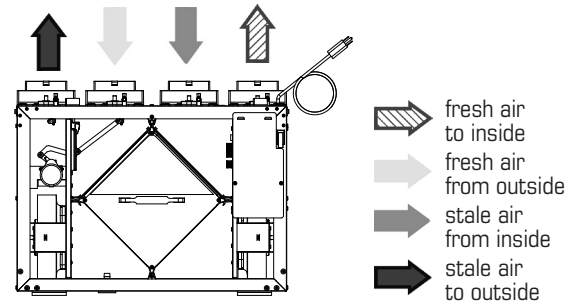
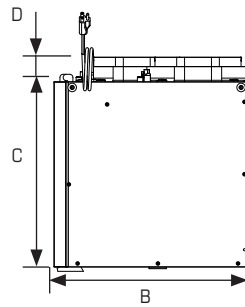
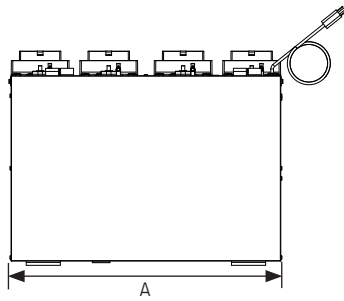
Installation

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.

Dimensions & Airflow



| 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.

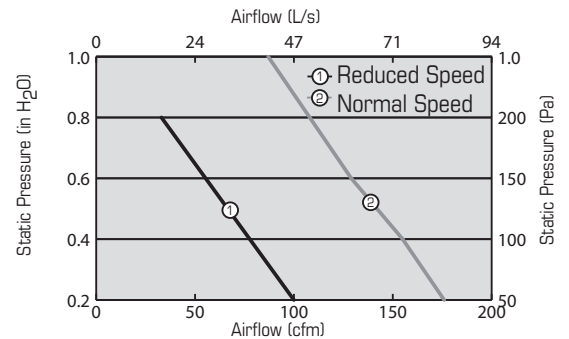
Ventilation Performance

| 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 | 176 (83) | 155 (73) | 129 (61) | 108 (51) | 87 (41) |
| Gross supply airflow | 178 (84) | 157 (74) | 131 (62) | 110 (52) | 87 (41) |
| Gross exhaust airflow | 178 (84) | 157 (74) | 131 (62) | 110 (52) | 87 (41) |

Only the data of the normal speed are HVI certified.

** - Balancing Range : 90 cfm (42 L/s) to 170 cfm (80 L/s)

- If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly sized unit is selected



Energy performance

| Heating | Supply temperature | | Net airflow | | Consumed power | Sensible recovery efficiency | Apparent sensible effectiveness ¹ | Latent recovery/moisture transfer |
|---------|--------------------|-----|-------------|-----|----------------|------------------------------|--|-----------------------------------|
| | °F | °C | cfm | L/s | W | % | % | - |
| | 32 | 0 | 85 | 40 | 73 | 66 | 79 | -0.01 |
| | 32 | 0 | 100 | 47 | 108 | 63 | 79 | 0.01 |
| | -13 | -25 | 89 | 42 | 107 | 60 | 72 | 0.02 |

¹ Not an HVI certified value

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: | Project #: |
| Comments: | |
| Location: | |
| Architect: | |
| Engineer: | Contractor: |

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