



Fantech VHR Series

Heat Recovery Ventilator

VHR 1404, VHR 1405R, VHR 2004, VHR 2005R



FEATURES

- Compact Design
- Electrostatic Filters (washable)
- Balancing Dampers Included In Installation Kit
- External Screw Type Dry Contacts

OPTIONAL CONTROLS

- EDF 5 – Digital Multi-Function Wall Control w/ Recirculation
- EDF2 – Digital Multi-Function Wall Control
- MDEH 2 – Mechanical Low Voltage Dehumidistat with On/Off Switch
- MDEH 1 – Mechanical Low Voltage Dehumidistat
- RTS 2 – 15 Minute Pushbutton Timer
- FD 30M – 30 Minute Crank Timer
- AQS 1 – Air Quality Sensor

Fantech VHR Series Heat Recovery Ventilators are designed to improve indoor air quality in residential applications by providing a balanced ventilation system.

Compact size and vertical ports add flexibility at installation. Ideal for applications where space is limited. Choose from four models including recirculating and non-recirculating units. All models feature precision-balanced EBM motors for dependable performance and vibration-free operation.

Here's How They Work:

The HRV brings in fresh outdoor air and draws it through a polypropylene core where it is heated by the stale outgoing air. The HRV then distributes the preheated fresh filtered air throughout the home by direct ductwork installed specially for the HRV or through the ductwork of a forced-air system.

SPECIFICATIONS

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

DEFROST A preset 5 minute defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower.

VHR 1404 & 2004 - During the defrost sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation for 25 minutes, and continues cycle.

VHR 1405R & 2005R - During the defrost sequence, its mechanism uses a motorized damper to temporarily block the incoming fresh air stream allowing the warm air from the home to 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. The unit then returns to normal operation for 25 minutes, and continues cycle.

SERVICEABILITY Core, filters, motors and drain pan can be easily serviced through latched access door. Electrical box, placed on the inside of the unit, can also be easily accessed.

Core: Heat Recovery Units feature a lifetime warranty on the polypropylene core.

Washable Electrostatic Filters

Superior EBM Motors: Units are designed with German manufactured EBM external rotor motorized impellers – the most durable motors in the industry. Precise balancing ensures vibration-free operation. No maintenance needed. 7 Year Limited Warranty.



Fully Insulated Cabinet:

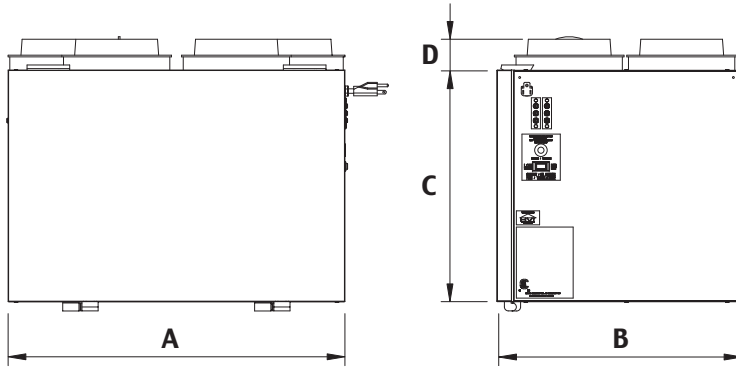
Baked powder-coat finish. Insulated with 1" (25mm) high density polystyrene foam. For quiet, trouble-free operation.

Electronic Control Board:

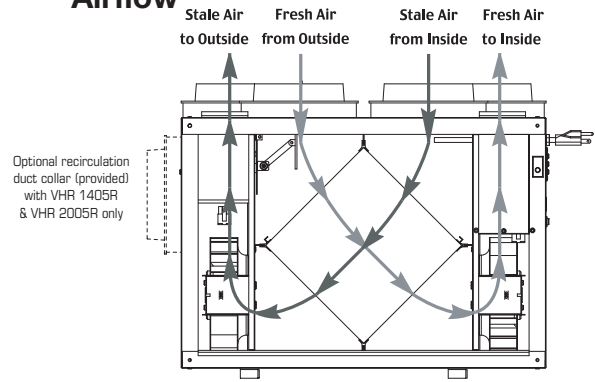
Units feature state-of-the-art control boards for easy connection to existing HVAC equipment. All units are designed for easy operation from a series of optional remote controls.

VHR 1404, VHR 1405R, VHR 2004 & VHR 2005R Series Heat Recovery Ventilators

Dimensions

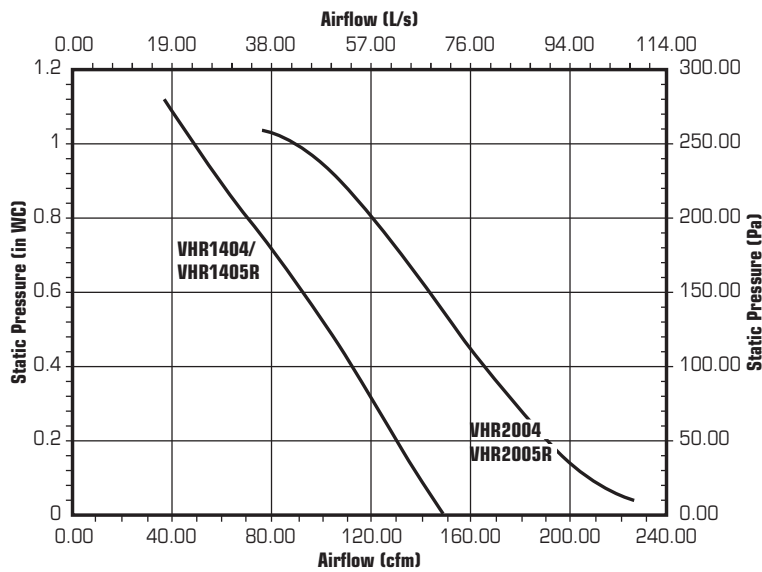


Airflow



Measurements	Model	VHR 1404	VHR 1405R	VHR 2004	VHR 2005R
A		23 3/4" (604mm)	23 3/4" (604mm)	28" (711mm)	28" (711mm)
B		17 1/4" (438mm)	17 1/4" (438mm)	17 1/4" (438mm)	17 1/4" (438mm)
C		16 1/4" (413mm)	16 1/4" (413mm)	20 1/2" (521mm)	20 1/2" (521mm)
D		2 1/4" (56mm)	2 1/4" (56mm)	2 1/4" (56mm)	2 1/4" (56mm)

Fan Performance



Performance Data



Model	Apparent Sensible Effectiveness at 32°F (0°C)	Apparent Sensible Effectiveness at -13°F (-25°C)
VHR 1404/1405R	81 %	79 %
VHR 2004/2005R	71 %	76 %

AIRFLOW CAP. cfm (L/s) @ 0.4 on High Speed

Power

- Volts 120 VAC
- Amperage

VHR 1404/1405R	1.4 Amps
VHR 2004/2005R	1.6 Amps
- Phase Single Phase



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



United States

1712 Northgate Blvd. • Sarasota, FL. 34234
(T) 1.800.747.1762 • (F) 1.800.487.9915
(T) 1.941.309.6000 • (F) 1.941.309.6099

Ontario & Western Canada

10-6665 Tomken Rd., Mississauga, ON L5T 2C4
(T) 1.800.407.6195 • (F) 1.800.407.8965
(T) 1.905.696.9241 • (F) 1.905.696.9236

Québec & Atlantic Provinces

50 Kanalfakt Way, Bouctouche, NB E4S 3M5
(T) 1.800.565.3548 • (F) 1.800.747.8116
(T) 1.506.743.9500 • (F) 1.506.743.9600

web: www.fantech.net
e-mail: info@fantech.net

Art.#: 600671
US #: VHR - 0304
Rev Date: 031504