



# Fantech

Your Ventilation Solutions Company



## FEATURES

- Compact design
- Backward curved blade motors
- Electrostatic filters (washable)
- Aluminum heat recovery core
- External screw type dry contacts
- Improved core guide channels for easy removal of core

## OPTIONAL CONTROLS

- EDF 1 – On/Off, Low, High Speed Operation and 20 min. On/40 min. Off Cycle Timer
- RTS 3 – Intermittent Bathroom Timer with Settings for 20/40/60 Minutes of High Speed Boost
- EDF 5 – Digital multi-function wall control with recirculation
- EDF 2 – 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

## WARRANTY

- 7 year on motors
- 5 year on parts
- Lifetime on core (limited)

Distributed by:

## Heat Recovery Ventilator

Model VHR 2005R

## SPECIFICATIONS

**CASE** 22 gauge galvanized steel. Powder coated finish, antique white. Insulated with 1" (25 mm) foil-faced high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

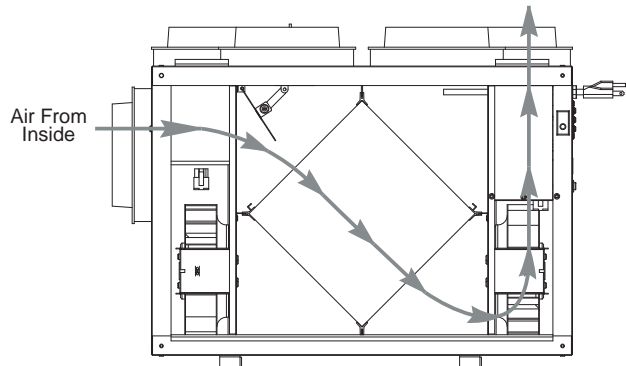
**MOTORS** Two (2) German-engineered, factory-balanced ebm™ motors with backward curved blades. Motors come with permanently lubricated sealed bearings guarantee long life and maintenance-free operation. Seven (7) year warranty.

**FILTERS** Two (2) Washable Electrostatic Panel Type Air Filters, 11.75" (298mm) x 15" (380mm) x 0.125" (3mm).

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

**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)

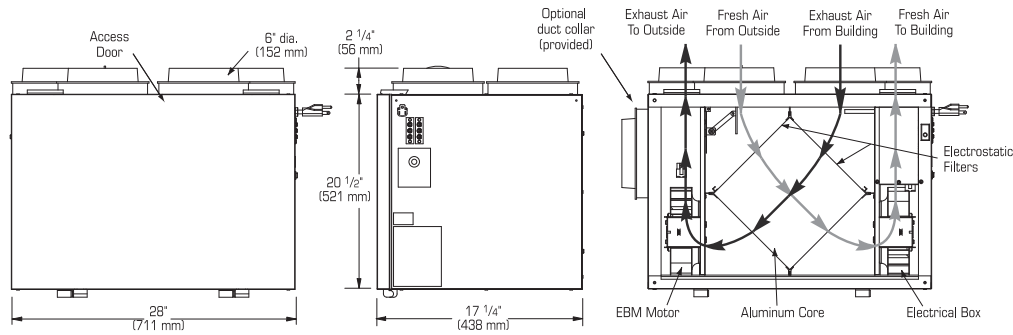
**DEFROST** During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.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



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

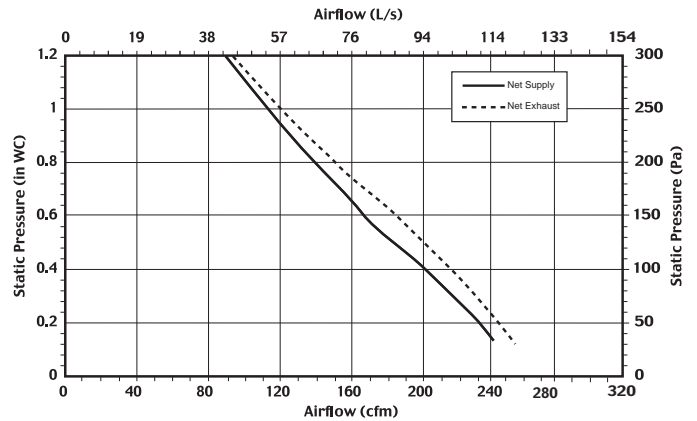
**SERVICEABILITY** Core, filters, motors and drain pan can be easily serviced through latched access door. Core conveniently slides out with ease on an improved railing system.

**Dimensions & Airflow** - All units feature three foot plug-in power cord with 3-prong plug.



**Ventilation Performance**

| EXT. STATIC PRESSURE |       | NET SUPPLY AIR FLOW |     | GROSS AIR FLOW |     |         |     |
|----------------------|-------|---------------------|-----|----------------|-----|---------|-----|
|                      |       |                     |     | SUPPLY         |     | EXHAUST |     |
| Pa                   | in wg | L/s                 | cfm | L/s            | cfm | L/s     | cfm |
| 25                   | 0.1   | 114                 | 243 | 116            | 246 | 120     | 254 |
| 50                   | 0.2   | 109                 | 230 | 110            | 233 | 115     | 244 |
| 75                   | 0.3   | 103                 | 218 | 104            | 221 | 106     | 225 |
| 100                  | 0.4   | 95                  | 201 | 96             | 204 | 101     | 215 |
| 125                  | 0.5   | 86                  | 182 | 87             | 185 | 94      | 199 |
| 150                  | 0.6   | 78                  | 166 | 79             | 168 | 87      | 184 |
| 175                  | 0.7   | 71                  | 151 | 72             | 154 | 79      | 168 |
| 200                  | 0.8   | 65                  | 137 | 66             | 139 | 71      | 151 |
| 225                  | 0.9   | 59                  | 125 | 60             | 127 | 64      | 136 |
| 250                  | 1.0   | 53                  | 112 | 53             | 113 | 51      | 118 |
| 275                  | 1.1   | 46                  | 98  | 47             | 99  | 51      | 108 |
| 300                  | 1.2   | 42                  | 88  | 42             | 90  | 44      | 93  |
| 325                  | 1.3   | 37                  | 78  | 37             | 79  | 39      | 83  |
| 350                  | 1.4   | 31                  | 66  | 32             | 67  | 35      | 75  |
| 375                  | 1.5   | 26                  | 55  | 26             | 56  | 30      | 63  |



**Energy Performance**

|         | SUPPLY TEMPERATURE |     | NET AIRFLOW |     | POWER CONSUMED WATTS | SENSIBLE RECOVERY EFFICIENCY | APPARENT SENSIBLE EFFEC-TIVENESS | LATENT RECOVERY/MOISTURE TRANSFER |
|---------|--------------------|-----|-------------|-----|----------------------|------------------------------|----------------------------------|-----------------------------------|
|         | °C                 | °F  | L/s         | cfm |                      |                              |                                  |                                   |
| Heating | 0                  | 32  | 31          | 65  | 108                  | 62                           | 77                               | 0.06                              |
|         | 0                  | 32  | 55          | 117 | 154                  | 62                           | 74                               | 0.07                              |
|         | 0                  | 32  | 90          | 191 | 246                  | 60                           | 71                               | 0.00                              |
|         | -25                | -13 | 59          | 126 | 141                  | 64                           | 81                               | 0.01                              |

**Specifications and Ratings**

- Model: VHR 2005R
- Total assembled weight: 45 lbs
- Cabinet: 22 ga. steel w/ powder coat finish
- Motors: ebm motor w/backward curved blades
- Filters: 2 washable electrostatic filters 11.75" (298mm) x 15" (380mm) x 0.125" (3mm)
- Insulated with 1" (25 mm) foil-face high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.
- Core: Aluminum 12" (305mm) x 12" (305 mm) x 15" (380 mm)
- Supply & exhaust ducts: 6" (152.4mm)
- Mounting: Suspended by chains & hooks
- Electrical requirements:
 

|       |           |      |                            |
|-------|-----------|------|----------------------------|
| Volts | Frequency | Amps | Watts                      |
| 120V  | 60Hz      | 2.1A | 150W <sup>High Speed</sup> |

**Contacts**

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Qty: \_\_\_\_\_ Model #: \_\_\_\_\_

Comments: \_\_\_\_\_

Project #: \_\_\_\_\_

Location: \_\_\_\_\_

Architect: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_



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