

# VHR 704R

## Heat Recovery Ventilator

Product #: 41050



As the Fantech's most compact, full-featured HRV with recirculation defrost for better efficiency, the VHR 704R unit brings a continuous supply of fresh air into the home while exhausting an equal amount of contaminated air. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. The VHR704R is equipped with automatic recirculation defrost mechanisms so even if you live in the coldest climates you can use your HRV all year long.

### Features

- Super Compact Size
- Top Port Design Fits in Tight Spaces
- Includes Easy-Mount Wall Bracket
- Aluminum Heat Recovery Core
- Easy Access Service Door
- 3' (914mm) Plug-in Power Cord
- Only 30 lbs (13.5 kg)
- Electrostatic Filters (washable)
- Easy Core Guide Channels For Removing Core
- Multiple Speed Operation

### Accessories

- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF1 (#40375) – Multi-function control
- RTS3 (#40376) – 20/40/60 minute over-ride
- RTS2 (#40164) – 20 minute over-ride
- MDEH1 (#40172) – Dehumidistat
- MDEH2 (#40173) – Mechanical low voltage dehumidistat with ON/OFF switch
- EDF1R (#40393) – Triple function wall control

### Specifications

- Duct size – 5" (125mm) oval
- Voltage/Phase – 120/1
- Power rated – 48 W
- Amp – 0.4 A
- Average airflow – 55 cfm (26 L/s)  
@ 0.4" P<sub>s</sub> (100Pa)

### 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.

### Defrost

A preset defrost sequence is activated at an outdoor temperature of 23° F (-5°C) and lower. During the defrost sequence, the fresh air is interrupted momentarily and indoor air is allowed to recirculate in the exchanger to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation until the next defrost sequence.

### Serviceability

Core, filters, motors and drain pan can be easily accessed through latched door. Core conveniently slides out on our new easy glide core guides. 10" (250mm) of clearance is recommended for removal of core.

### Duct Connections

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

### 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 8" (205 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 optional controls)

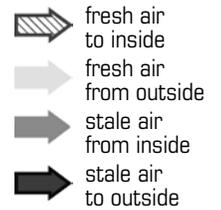
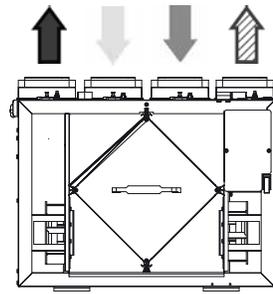
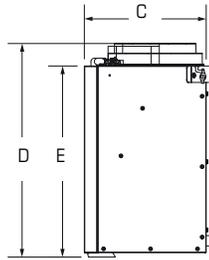
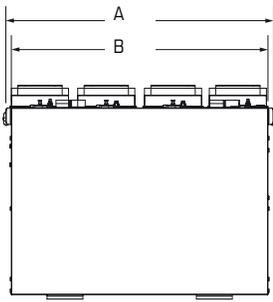
### Drain

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.

## Dimensions & Airflow



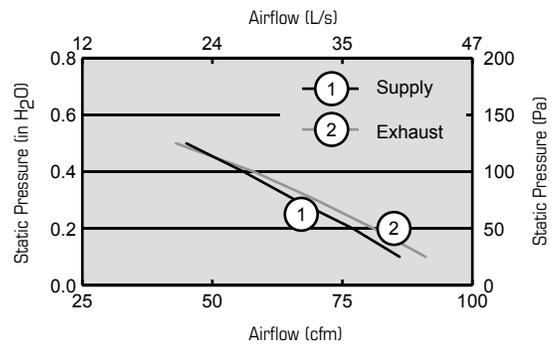
Model	A		B		C		D		E	
	in	mm								

VHR704R 22 <sup>2</sup>/<sub>5</sub> 569 21 <sup>1</sup>/<sub>2</sub> 546 10 <sup>1</sup>/<sub>5</sub> 259 17 <sup>3</sup>/<sub>16</sub> 437 16 406

Clearance of 10" (250mm) 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)
	cfm (L/s)				
Net supply airflow	84 (40)	76 (35)	64 (30)	55 (26)	44 (21)
Gross supply airflow	86 (41)	77 (36)	66 (31)	56 (26)	45 (21)
Gross exhaust airflow	91 (43)	81 (38)	70 (33)	58 (27)	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	52	25	34	61	69	0.00
	32	0	64	30	44	59	67	0.00
	-32	0	75	35	44	59	66	0.00
	-13	-25	57	27	42	61	73	0.01

## Defrost Cycle Time

Temperature Range		Run/Defrost cycle
°F	°C	Minutes
23 to 14	-5 to -14	40/3
14 to 5	-10 to -15	30/5
5 and lower	-15 and lower	20/5

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

## Distributed by:

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