

# VHR 1404

## Heat Recovery Ventilator

Product #: 40058



One of Fantech's most popular HRV for home projects, the VHR 1404 is designed for higher static pressure applications. The unit brings a continuous supply of fresh air into a 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 VHR 1404 is equipped with automatic defrost mechanisms so you can use your HRV all year long.

### Features

- Compact design
- Backward curved blade motors
- Electrostatic filters (washable)
- Aluminum heat recovery core
- External screw type dry contacts
- Easy Core Guide Channels For Removing Core
- Only weighs 45 lbs (20Kg)

### Controls

- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- RTS3 (#40376) – 20/40/60 minute over-ride
- RTS2 (#40164) – 20 minute over-ride
- MDEH1 (#40172) – Dehumidistat

### Specifications

- Duct size – 6" (152 mm)
- Voltage/Phase – 120/1
- Power rated – 156 W
- Amp – 1.2 A
- Average airflow – 159 cfm (75 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 year warranty.

### Heat Recovery Core

Aluminum heat recovery core covered by a limited lifetime warranty. Core dimensions are 9" x 9" (229 x 229 mm) with a 15" (80 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

### Defrost

A preset defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower. During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy. The unit then returns to normal operation, and continues cycle.

### 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. 17" (432 mm) of clearance is recommended for removal of core.

### 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)

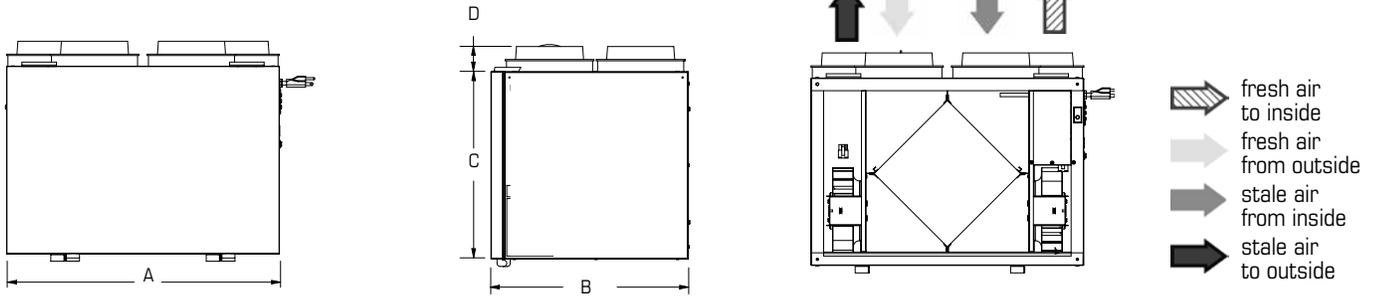
### Installation

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.

## Dimensions & Airflow

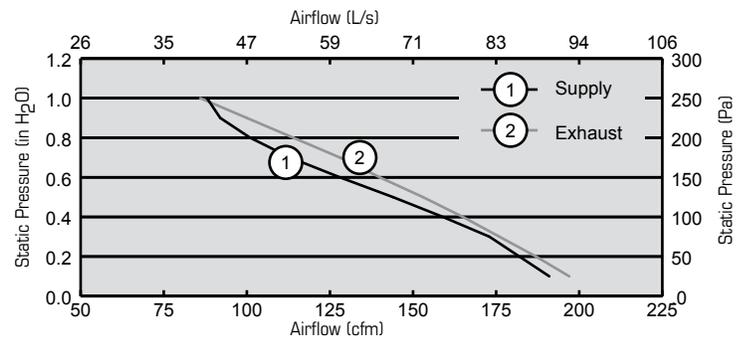


Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
VHR1404	23 3/4	603	17 3/16	437	16 1/4	413	2 3/16	56

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)				
Net supply airflow	182 (96)	159 (75)	128 (60)	101 (48)	88 (42)
Gross supply airflow	186 (88)	162 (77)	130 (62)	103 (48)	90 (42)
Gross exhaust airflow	187 (88)	165 (78)	140 (66)	114 (54)	86 (41)



## 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	61	76	-0.02
	32	0	101	48	94	63	71	-0.02
	32	0	159	75	140	60	68	-0.01
	-13	-25	85	40	71	58	75	-0.01

## 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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