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# FANTECH FTC463802 Owner's Manual

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# VH 704 Fresh Air Appliance

Top duct connection HRV, 57 cfm, w/o control

Item #: 463802



- Airflow up to 56 cfm @ 0.4" PS serves 1 to 2 bedroom homes
- Single speed ventilation; no controls needed
- Includes easy-mount wall bracket

## Application

As Fantech's smallest and most compact top duct connection HRV, the VH 704 unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air.

## How it works

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 VH 704 is equipped with automatic defrost mechanisms so you can use your HRV all year long.

## Defrost cycle

Unit is designed to operate continuously on a single speed. The automatic defrost cycle consists of a fan shutdown: when the supply air stream temperature goes below 23°F, the supply motor shuts down, while the exhaust motor continues to ventilate. Ambient air is passed through the unit for a period of 3 or 5 minutes. The supply motor will then re-start and run at the preset speed.



## Technical parameters

Product		
Frequency	60	Hz
Phase(s)	1~	
Input power	48	W
Input current	0.4	A
Air flow	56	cfm
Static pressure	0.4	in.wg
Exchanger		
Exchanger type	Heat recovery (aluminium)	
Dimensions and weights		
Weight	24.3	lb

**Used for**

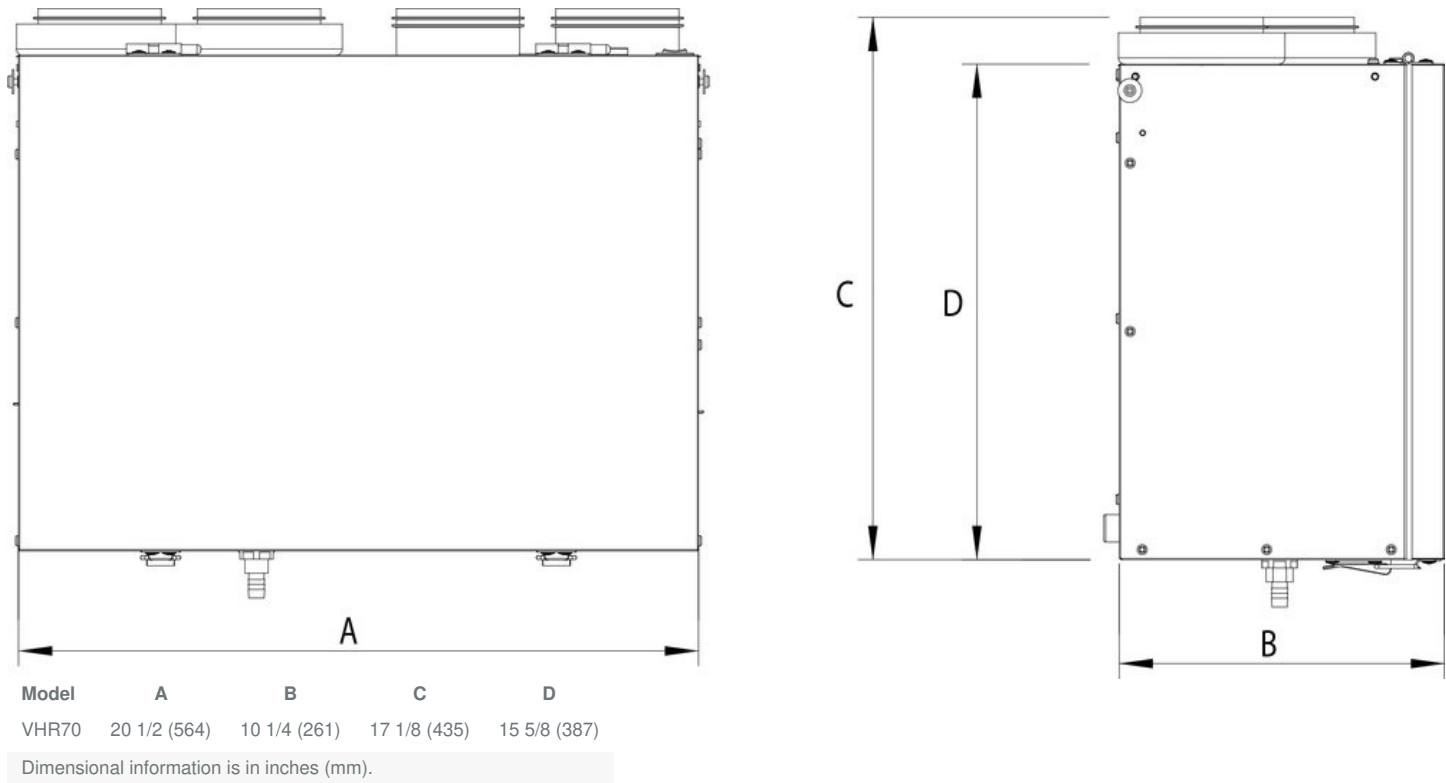
Installation placement

Vertical

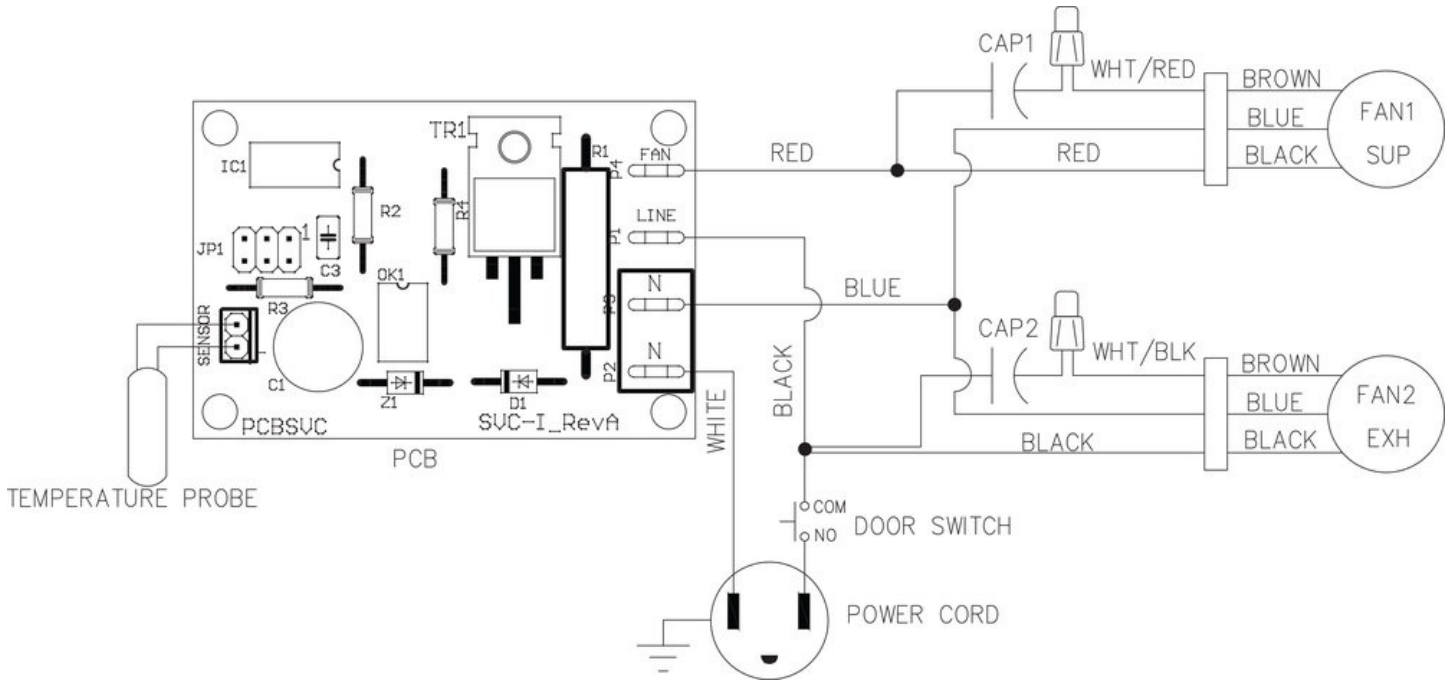
## Performances

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)	54 (26)	40	62	73	-
	32 (0)	67 (32)	40	62	70	-
	32 (0)	71 (34)	40	62	68	-
	-13 (-25)	70 (33)	37	56	74	-

## Dimensions



## Wiring



## Accessories

- FTD7 7 Day Digital Timer (49792)
- FIDT 4 Insulated Flex Duct (411061)
- Filter,MERV8,70 cfm,Repl.kit (414921)
- MGS 4 Metal Supply Grill (411368)
- COM4P Supply and Exhaust Hoods (40369)
- Filter,MERV6,70 cfm,Repl.kit (414644)
- MGE 4 Metal Exhaust Grill (411106)

## Documents

- 444788 SH704 IOM EN FR.pdf
- VH\_704\_SERVICE\_MANUAL\_\_463802\_.PDF
- 444793\_VH704\_SPEC\_SHEET\_EN.PDF

## Specification

### 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. Seven (7) year warranty. Steep fan curves requires no balancing of airflows.

### 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" (203 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

### Defrost

The automatic defrost cycle consists of a fan shutdown. When the supply air stream temperature goes below 23°F (-5°C), the supply motor shuts down while the exhaust motor continues to ventilate. Ambient air is passed through the unit for a period of 3 or 5 minutes. The supply motor will then re-start and run at the preset speed. This fan shutdown defrost cycle continues until the supply air stream rises above 23°F (-5°C).

### 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

4" (100mm) steel duct connections with rubber gasket for easy sealing.

### 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" 203mm) x 0.125" (3mm).

### Controls

Unit is designed to operate continuously on a single speed. See FTD 7 under accessories or contact Tech Support for possible intermittent, line-voltage options.

### 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.

### 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