VHR 120R

Heat Recovery Ventilator

Product #: 95761

The full-featured VHR120R from Fantech features a counter-flow heat exchanger which provides the highest level of efficiency no matter the airflow.

This unique HRV is ideal for home projects that demand higher efficiency, the VHR120R is designed for higher static pressure and higher airflow applications.

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 120R is equipped with a recirculation defrost mechanism so you can use your HRV all year long.

Features

- 75% Efficient at all airflows
- Counter-flow aluminum heat recovery core
- ENERGY STAR® Qualified
- Fans with backward curved blades
- Removable screw terminal for easy connection
- Multiple speed operation
- Internal recirculation defrost

Optional Controls:

- Eco-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- EDF1R (#40393) – Multi-function dehumidistat
- RTS2 (#40164) – 20 minute timer over-ride
- RTS5 (#44794) – 20/40/60 minute timer

Specifications

- Duct size – 6˝ (153 mm) oval
- Weight – 58 lbs (26 kg) including core
- Voltage/Phase – 120/1
- Power rated – 140 W
- Amp – 1.3 A
- Average airflow @ 0.4" P_s (100Pa) – 119 cfm (56 L/s)

Fans

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

Heat Recovery Core

Aluminum heat recovery core configured for an efficient counter-flow ventilation. Core is 9" x 18" (231 x 456 mm) with a 12" (305 mm) depth. Cores are manufactured to withstand extreme temperature variations.

Winterguard™ Defrost

The VHR120R incorporates a unique and quiet internal recirculation defrost that does not depressurize the home during the defrost cycle. A preset defrost sequence is activated when the outdoor temperature falls below 23° F (-5° C) and automatically adjusts itself based on operating conditions. The fan speed is also adjusted automatically to provide a smooth and quiet transition between Ventilation & Defrost mode.

Serviceability

Core, filters, fans, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 15" (380 mm) clearance.

Duct Connections

6" (152 mm) Oval plastic duct connections with integrated balancing damper and airflow measurement ports.

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 for the exhaust air. Dimensions: 5.71" (145 mm) x 12" (380 mm) x 0.125" (3 mm).

Warranty

Limited lifetime on aluminum core, 7 year on motors, and 5 year on parts.

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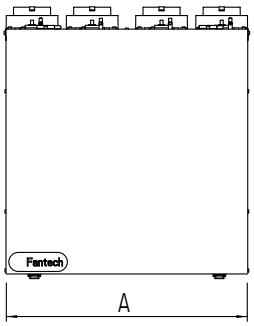
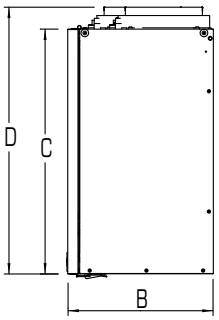
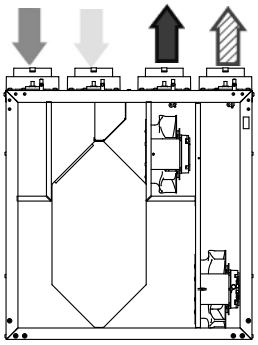
Dimensions & Airflow







fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

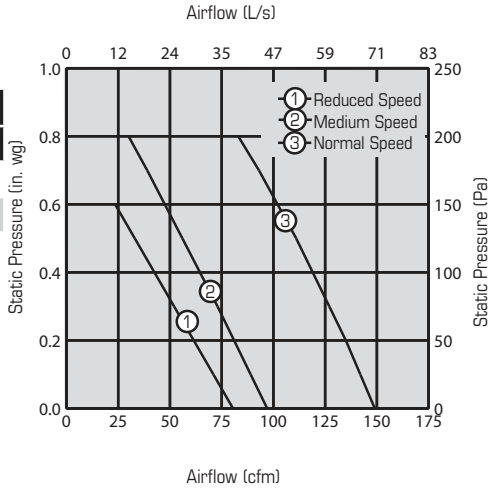
Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
VHR 120R	23 3/4	603	14 5/16	363	24	611	26 3/16	663

Dimensional information is in inches. Clearance of 15" (380 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)	0.1 (25)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	142 (67)	135 (64)	127 (60)	119 (56)	111 (52)	102 (48)	93 (44)	83 (39)
Gross supply airflow	143 (68)	136 (64)	128 (60)	120 (57)	112 (53)	103 (48)	93 (44)	83 (39)
Gross exhaust airflow	143 (68)	136 (64)	128 (60)	120 (57)	112 (53)	103 (48)	93 (44)	83 (39)

Only the data of the normal speed are HVI certified.



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	66	31	57	77	86	0.3
	32	0	85	40	80	77	86	0.1
	32	0	131	62	144	73	83	0.0
	-13	-25	70	33	75	71	91	0.6

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 and ENERGY STAR® qualified*

*** This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.**

Contacts

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

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