



PHRVR150-HE

Heat Recovery Ventilator with Recirculation

Product #: 463901



The PHRVR150-HE is ideal for high-rise apartment applications, condominiums, single and multi family homes. With a completely new design the PHRVR150-HE features a Counterflow core, round metal collars and a high efficiency rating!

Features

- Electronic balancing system
- Silent and economical
- Integrated door balancing ports
- 6" (152mm) round metal duct connections with rubberized duct seals
- Top port design fits in tight spaces
- Includes wall mounting
- Counterflow heat recovery core
- Multiple speed operation
- Recirculating defrost sequence
- Weight: 51 lbs (23.2kg) including core

Optional Controls

- STS2.0 – Touch screen multi-function control
- DIR-DG – Multi-function Dehumidistat
- EDF1R – Triple function wall control
- Dehumidistat 1 – Dehumidistat
- RTS5 – 20/40/60 minute timer

Optional Supply Air Filter

- MERV8 – Pleated Air Filter (Item N° 428526)
- MERV13 – Pleated Air Filter (Item N° 428548)

Electrical Requirements

- Voltage – 120V/60Hz/1 Phase
- Amp – 1.4 A
- Power cord – Ac 3/3-prong plug-in

Specifications

- Model – PHRVR150-HE
- Weight – 51 lbs (23.2 kg)
- Mounting – Wall Bracket (included)
- Motors – Backward curved impeller
- Duct dia. – Metal 6" (152mm) round
- Insulation – High Density polystyrene foam
- Core – Polystyrene counter-flow type
- Filters – Two (2) washable electrostatic filters
- Cabinet – ASTM A653, G90, 22 ga. galvanized steel.



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

Counterflow heat recovery exchanger built from thermoformed polymer plates covered by a limited lifetime warranty. Core dimensions are 14.4" x 14.4" (366 x 366 mm) with a 12" (305 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

Defrost Sequence

The unit 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 and electronic panel can be accessed easily from the access panel. Core conveniently slides out with only 14" (355 mm) clearance.

Duct Connections

6" (152mm) round metal duct connections with rubberized seal.

Cabinet

22 gauge galvanized steel corrosion resistant with pre-painted access door

Insulation

Cabinet is fully insulated with 3/4" (20 mm) high density expanded polystyrene.

Filters

Two (2) washable electrostatic panel type air filters 7.87" (200mm) x 11.91" (300mm) x 0.125" (3mm).

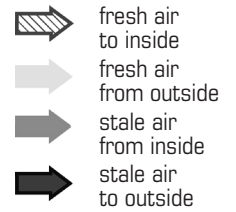
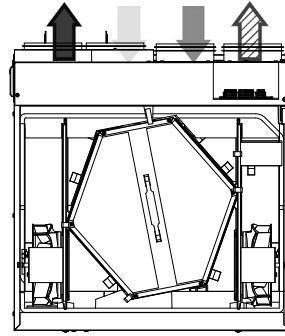
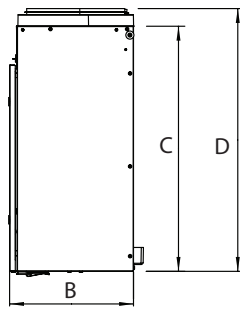
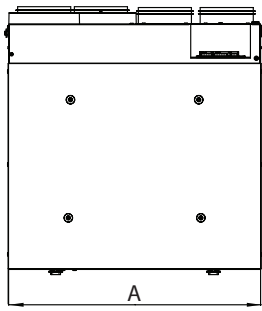
Balancing and commissioning

Balancing must be completed using the STS2.0 Programmable Touch Screen Wall Control

Warranty

Limited lifetime on counterflow exchanger, 7 year on motors, and 5 year on parts.

Dimensions & Airflow



Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
PHRVR 150-HE	27 7/8	707	13 3/8	341	23	285	24 7/8	626

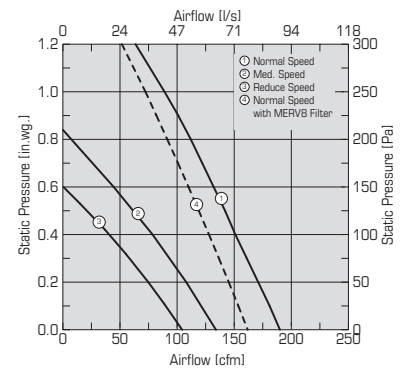
Clearance of 14" (355mm) in front of the unit is recommended for removal of core.

Ventilation Performance

in. wg. (Pa)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1.0 (250)
	cfm (L/s)	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	172 (81)	161 (76)	150 (71)	142 (67)	131 (62)	123 (58)	112 (53)	102 (48)	89 (42)
Net supply airflow with MERV8 filter	145 (69)	137 (64)	128 (60)	119 (56)	110 (52)	101 (48)	91 (43)	82 (39)	72 (34)
Gross supply airflow	178 (84)	167 (79)	157 (74)	148 (70)	138 (65)	127 (60)	117 (55)	104 (49)	93 (44)
Gross exhaust airflow	186 (88)	176 (83)	165 (78)	155 (73)	142 (67)	131 (62)	121 (57)	108 (51)	95 (45)

** - Balancing Range : 90 cfm (42 L/s) to 210 cfm (99 L/s) sized unit is selected

- If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly



Energy performance

Heating	Supply temperature		Net Airflow		Power	Sensible recovery efficiency	Adjusted Sensible recovery efficiency	Apparent sensible effectiveness ¹	Latent recovery / moisture transfer
	°F	°C	cfm	L/s					
	32	0	70	33	58	81	87	90	0.00
	32	0	104	49	86	78	84	86	0.00
	32	0	148	70	136	75	81	83	0.00
	-13	-25	66	31	78	64	67	90	0.12

¹ - Not an HVI certified value

- Energy performance results were obtained without the MERV-8 filter installed

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. This data was obtained without the use of the MERV8 supply filter.
- 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.

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Submitted by:	Date:
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Comments:	Project #:
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Architect:	
Engineer:	Contractor: