

PHRVR120-HE

Heat Recovery Ventilator with Recirculation

Product #: 463900



The PHRVR120-HE is ideal for high-rise apartment applications, condominiums, single and multi family homes. With a completely new design the PHRVR120-HE features a Counterflow core, round metal collars and a high efficiency rating!

Features

- Electronic balancing system
- Silent and economical
- Integrated door balancing ports
- 5" (125mm) 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: 41.4 lbs (18.8 kg) 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 № 428525)

Electrical Requirements

Voltage – 120V/60Hz/1 Phase

• Amp – 1.2 A

Power cord – Ac 3'/3-prong plug-in

Specifications

 Model - PHRVR120-HE Weight - 41.4 lbs (18.8 kg) Wall Bracket (included) Mounting Motors Backward curved impeller - Metal 5" (125mm) round Duct dia. Insulation - High Density polystyrene foam Core Polystyrene counter-flow type - Two (2) washable electrostatic filters Filters ASTM A653, G90, 22 ga. galvanized steel. Cabinet







Motors

Two (2) factory-balanced fans with backward curved blades. Motors are 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 10" (255 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 accesses easily from the access panel. Core conveniently slides out with only 12" (305 mm) clearance.

Duct Connections

5" (125mm) round metal duct connections with rubberrized 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 9.84" (250mm) x 0.125" (3mm).

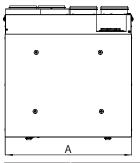
Balancing and commissioning

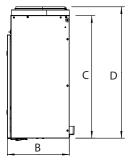
Balancing must be completed using the STS2.0 Programmable Touch Screen Wall Control

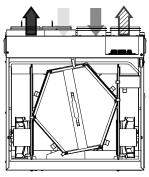
Warrant

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

Dimensions & Airflow









Model	A		В		C		D	
	in	mm	in	mm	in	mm	in	mm
PHRVR120-HE	23 1/4	590	11 1/2	291	22 ⁵ /8	575	24 1/4	616

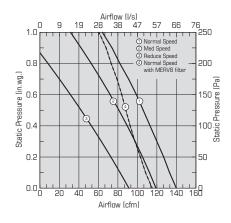
Clearance of 12" (305mm) in front of the unit is recommended for removal of core.

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)							
Net supply airflow	133 (63)	127 (60)	121 (57)	112 (53)	106 (50)	100 (47)	91 (43)	83 (39)
Net supply airflow with MERV8 filter	108 (51)	103 (49)	98 (46)	93 (44)	88 (42)	84 (40)	79 (37)	73 (34)
Gross supply airflow	138 (65)	131 (62)	125 (59)	119 (56)	110 (52)	102 (48)	95 (45)	85 (40)
Gross exhaust airflow	144 (68)	140 (66)	131 (62)	125 (59)	117 (55)	108 (51)	100 (47)	89 (42)



⁻ If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly sized unit is selected



Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency		• • • • • • • • • • • • • • • • • • • •	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	w	%	%	%	-
	32	0	70	33	68	81	88	90	0.00
	32	0	100	47	88	78	84	85	0.00
	32	0	114	54	118	76	83	85	0.00
	-13	-25	68	32	82	63	67	89	0.15

^{1 -} Not a HVI certified value

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 optained 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.

Our Branches

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



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