



PHRVR104

Heat Recovery Ventilator

Product#: 463319



Powerful things can come in a small package!

PHRVR104 is a compact HRV specially designed for small residential and multi-residential applications such as condominiums and apartment buildings that require up to 100 CFM of continuous principal ventilation. With its flexible and compact top port design incorporating the 5" oval collars with integrated airflow measurement and wall bracket, it can be installed in small spaces such as 24" closets or above the hot water heater.

The PHRVR104 is also equipped with the **Manually activated extra high speed** function to temporarily increase its exhaust capacity when needed; for example, when bathrooms or kitchens are exhausted with the use of an HRV instead of conventional methods.

Features

- **Maually activated extra high speed** function boosts exhaust capacity
- 5" (125mm) oval duct connections with integrated airflow measurement
- Removable screw terminal for easy connection
- Lightweight: only 43 lbs (19.45 kg) including core
- Super compact size
- Top port design fits in tight spaces
- Includes wall bracket
- **Aluminum** heat recovery core
- Multiple speed operation
- Internal recirculation defrost

Optional Controls

Speed control for Normal and Reduced speed standard on unit. Other operating modes available from optional controls below.

- DIR-TS – Programmable Touch Screen Wall Control
- Dehumidistat 1 – Dehumidistat
- RTS20 – 20 minute timer over-ride
- RTS5 – 20/40/60 minute timer
- EDF1R – Triple function wall control

Motors:

Two (2) German-manufactured, factory-balanced EBM 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 (7) year warranty.

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 12" (305 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

Frost Prevention System:

The PHRVR104 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:

All serviceable internal components, including core, filters, motors and electronic board are easily accessible and can be fully removed in under 5 minutes for complete service. A 12" (305 mm) clearance from the front of the unit is recommended to fully remove the core and other internal components.

Duct Connections:

5" (125mm) Oval plastic duct connections with integrated balancing damper and airflow measurement ports.

Case:

22 gauge galvanized steel cabinet with a pre-painted steel corrosion resistant door.

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 12.5" (318 mm) x 0.125" (3mm).

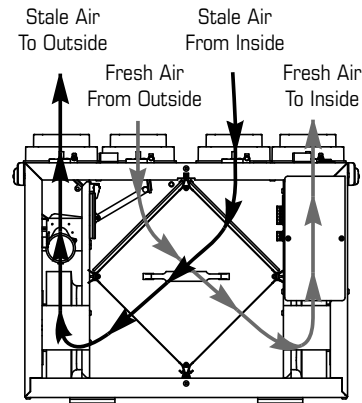
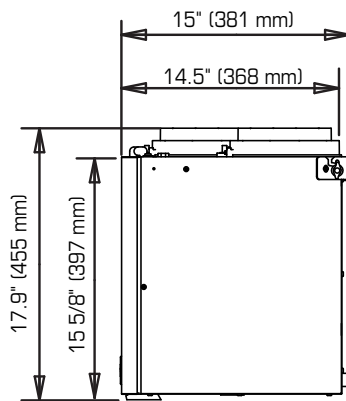
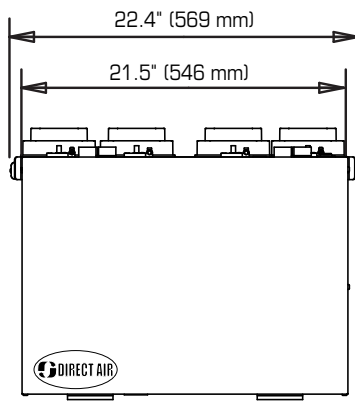
Drain:

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.

Dimensions & Airflow



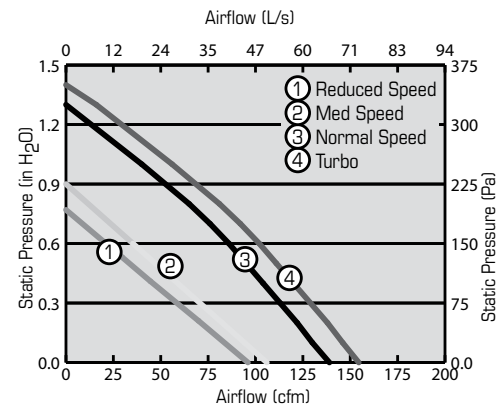
- 12" (305mm) of clearance in the front is recommended for removal of core

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)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	129 (61)	121 (57)	112 (53)	104 (49)	93 (44)	85 (40)	74 (35)
Gross supply airflow	133 (63)	125 (59)	117 (55)	108 (51)	97 (46)	89 (42)	78 (37)
Gross exhaust airflow	133 (63)	121 (57)	110 (52)	102 (48)	93 (44)	83 (39)	74 (35)

** - Balancing Range : 70 cfm (33 L/s) to 110 cfm (53 L/s)

- 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	Adjusted sensible recovery efficiency	Latent recovery/moisture transfer
	0 _F	0 _C	cfm	L/s	W	%	%	-
	32	0	62	29	89	60	66	0.00
	32	0	78	37	100	60	67	0.10
	32	0	100	47	145	59	65	0.00
	-13	-25	66	31	100	56	60	0.04

Specifications

- Model: PHRVR104
- Total assembled weight: 43 lbs (19.45 kg)
- Mounting: Wall bracket included as standard
- Motors: Permanently sealed motors, backward curved blades
- Supply & Exhaust ducts: 5" (125mm) oval
- Insulated with high density polystyrene foam.
- Core: Aluminum 8.5" (216mm) x 8.5" (216mm) x 12" (305mm)
- Filters: 2 washable electrostatic filters 8.5" (216mm) x 12.5" (318mm) x 0.125" (3mm)
- Cabinet: 22 gauge galvanized steel cabinet

with a pre-painted steel corrosion resistant door.

- Electrical requirements:

Volts	Frequency	Amps
120V	60Hz	1.6A

 3' plug-in power cord w/ 3-prong plug

Our branches

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



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