



With a profile of only 8.75" high, the PHRVTE-120 is ideally suited for condos and apartments that have no mechanical room and where it must be located over a false ceiling. The PHRVTE-120 brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The energy recovery core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

FEATURES

- Slim design, only 8.75" (222 mm) high
- No drain required
- Easy to install ceiling bracket included
- Weight: only 36 lbs (16 kg) including core
- Fans with backward curved RadiCAL blade
- Electrostatic filters (washable)
- Easy Core Guide Channels For Removing Core
- Multiple speed operation

ACCESSORIES

- DIR-TS – Programmable Touch Screen Wall Control
- DIR-DG – Electronic multi-function dehumidistat
- EDF1 – Multi-function control
- RTS5 – 20/40/60 minute Timer
- RTS20 – 20 minute over-ride
- MDEH1 – Dehumidistat

PHRVTE-120

Energy Recovery Ventilator

Product#: 99291

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.

ENERGY RECOVERY CORE AHRI certified core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. Core dimensions are 11.5" x 11.5" (290 x 290 mm) with a 7.8" (198 mm) depth.

FROST PREVENTION A preset frost prevention sequence is activated at an outdoor air temperature of 14°F (-10°C) and lower. During the frost prevention sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the frost prevention strategy. The unit then returns to normal operation, and continues cycle.

SERVICEABILITY Core, filters, fans and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 8" (203 mm) clearance.

CABINET 24 gauge G90 galvanized steel.

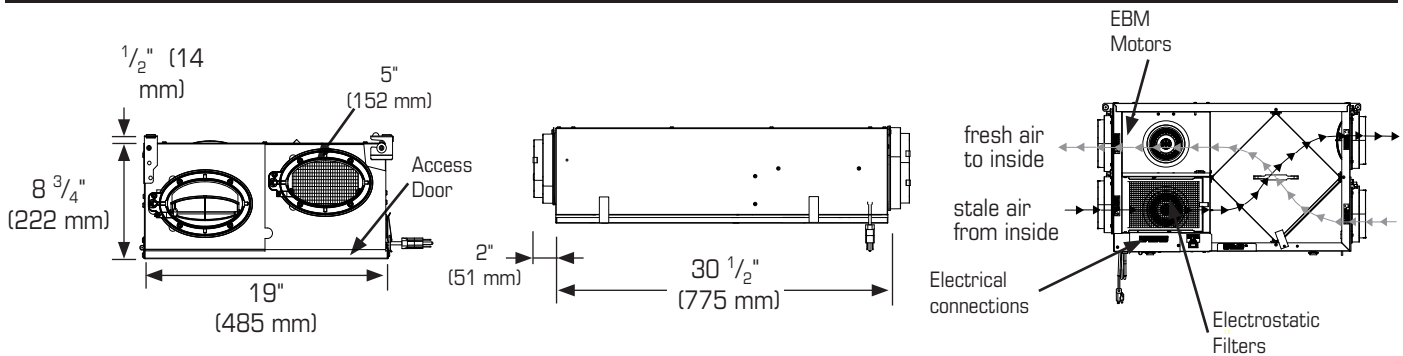
INSULATION Insulated with 1 in. (25 mm) of foil-faced high density polystyrene foam and 0.25 in. (6 mm) of closed-cell foam on the top of the unit.

FILTERS Two (2) washable electrostatic panel type air filters. Exhaust air filter dimensions 11.2" (284mm) x 7" (176 mm) x 0.125" (3mm). Supply air filter dimensions 11.4" (289mm) x 7.7" (196 mm) x 0.125" (3mm).

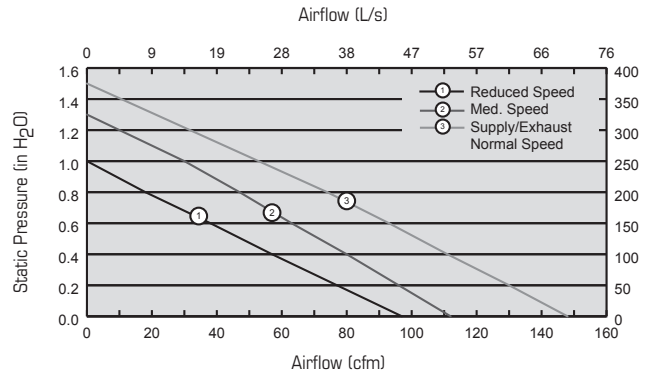
INSTALLATION Unit is typically hung by using ceiling bracket supplied with unit. Optional chain kit available.

WARRANTY 5 years on energy recovery core, 7 year on motors, and 5 year on parts.

Dimensions & Airflow - All units feature three foot plug-in power cord with 3-prong plug.



NORMAL SPEED							
EXT. STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW SUPPLY EXHAUST			
Pa	in wvg	L/s	cfm	L/s	cfm	L/s	cfm
25	0.1	63	133	66	140	66	140
50	0.2	59	125	61	129	61	129
75	0.3	54	114	57	121	57	121
100	0.4	50	106	52	110	52	110
125	0.5	46	97	48	102	48	102
150	0.6	42	89	44	93	44	93
175	0.7	38	81	39	83	39	83
200	0.8	33	70	35	74	35	74
225	0.9	29	61	30	64	30	64
250	1.0	25	53	26	55	26	55



Energy Performance

	SUPPLY TEMPERATURE		NET AIRFLOW		POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY/MOISTURE TRANSFER
	°C	°F	L/s	cfm				
Heating	0	32	31	66	82	65	83	0.55
	0	32	40	85	112	64	82	0.50
	0	32	46	97	148	63	82	0.48
	-15	5	31	66	82	56	64	0.45
Cooling	35	95	22	45	82		45 ¹	

¹ Total recovery efficiency

Specifications

- Model: PHRVTE-120
- Total assembled weight: 36 lbs (16 kg)
- Motors: ebm motors with backward curved blades
- Supply & Exhaust ducts: " (125mm) oval
- Insulated with high density polystyrene foam.
- Core: water vapor transport durable polymer membrane 1.5" (290mm) x 11.5" (290mm) x 7.8" (198mm)
- Filters: 2 washable electrostatic filters
- Exhaust air filter: 11.2" (284mm) x 7" (298mm) x 0.125" (3mm)
- Supply air filter: 11.4" (289mm) x 7.7" (196mm) x 0.125" (3mm)
- Cabinet: 24 ga. steel w/powder coat finish

- Electrical requirements:

Volts	Frequency	Amps
120V	60Hz	1.4A

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

Contacts

Submitted by:	Date:
Qty:	Model #:
Comments:	
Project #:	
Location:	
Architect:	
Engineer:	
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