

PREMIER 1.5E

Energy Recovery Ventilator (ERV)

Product #: 463922



* 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.

PREMIER

Product
Name

1.5

150 CFM
@ 0.4 in.
w.g.

E

Energy
Recovery

Greentek's PREMIER 1.5E is an Energy Recovery Ventilator designed for higher static pressure applications. The unit 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 incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

Features

- Fans with backward curved blade
- Electrostatic filters (washable)
- ERV core transfers both heat and humidity
- Removable screw terminal for easy connection with external access
- Multiple speed operation

Specifications

- Duct size – 6 in. (152 mm)
- Voltage/Phase – 120/1
- Power rated – 168 W
- Amp – 1.4 A
- Average airflow – 161 CFM (76 L/s)
@ 0.4 in. wg. (100Pa)
- Weight – 46 lbs (21 Kg) Including core

Requirements and standards

- UL 1812
- CSA C22.2 no. 113
- CSA F326
- Technical data was obtained from published results of test relating to CSA C439 Standards
- HVI and ENERGY STAR® certified*

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

Energy recovery 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 12 in. x 12 in. (305 x 305 mm) with a 10 in. (254 mm) depth.

Defrost

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

Serviceability

Core, filters, fans and drain pan can be easily accessed through latched door. Core conveniently slides out on our new easy glide core guides. 17 in. (432 mm) of clearance is recommended for removal of core.

Case

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

Insulation

Cabinet is fully insulated with 1 in. (25 mm) high density expanded polystyrene.

Filters

Two (2), UL900 certified, washable electrostatic panel type air filters 10 in. (254 mm) x 11.9 in. (302 mm) x 0.125 in. (3 mm).

Compatible Controls

Compatible with all Greentek controls.

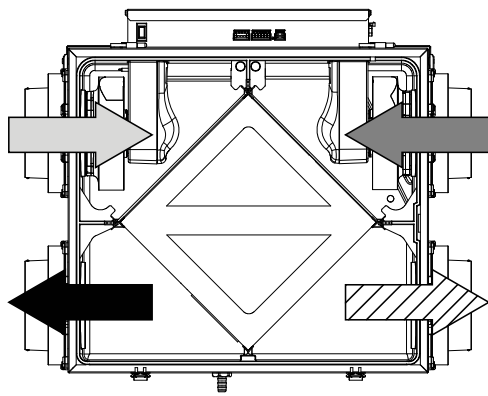
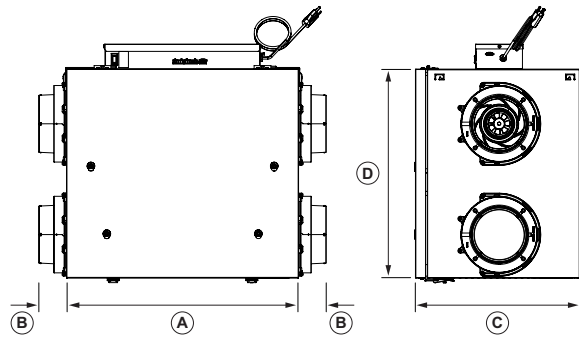
Installation

Unit is typically hung by using installation kit supplied with unit. Mounting chains inserted on hooks located on top four (4) corners of unit. An optional wall bracket is available.

Warranty

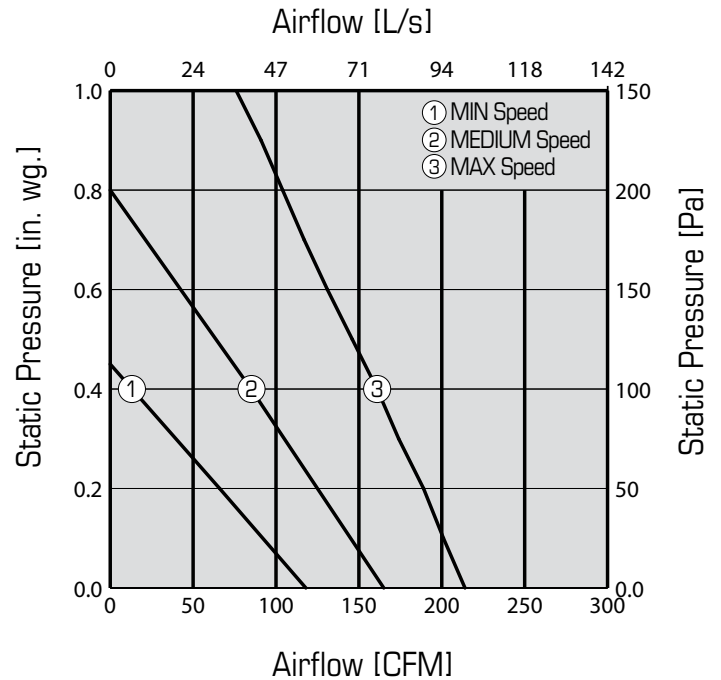
7 years on motor, 5 years on electrical components and core.

Dimensions & Airflow



A		B		C		D	
in	mm	in	mm	in	mm	in	mm
23 7/8	606	29 1/2	750	11 15/16	303	21 7/16	545

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	201 (95)	189 (89)	174 (82)	161 (76)	146 (69)	131 (62)	117 (55)	104 (49)
Gross supply airflow	203 (96)	191 (90)	176 (83)	163 (77)	148 (70)	131 (62)	119 (56)	106 (50)
Gross exhaust airflow	201 (95)	186 (88)	172 (81)	159 (75)	144 (68)	131 (62)	117 (55)	104 (49)

Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Fan efficacy	Sensible recovery efficiency	Adjusted sensible recovery efficiency	Latent recovery/moisture transfer
	°F	°C	CFM	L/s	W	CFM/W	%	%	%
	32	0	64	30	52	1.2	75	81	58
	32	0	148	70	104	1.4	67	72	45
	-13	-25	64	30	53	1.2	60	62	47

Cooling	Supply temperature		Net airflow		Consumed power	Fan efficacy	Total recovery efficiency	Adjusted Total recovery efficiency	Latent recovery/moisture transfer
	°F	°C	CFM	L/s	W	CFM/W	%	%	%
	95	35	64	30	52	1.2	60	63	60
	95	35	146	69	106	1.3	55	58	50

Contacts

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

Distributed by:

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