

SOLACE® 1.5H-EC

Heat Recovery Ventilator (HRV)

Product #: 463315



* 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.

SOLACE	1.5	H	-	EC
Product Name	Approximately 150 CFM @ 0.4 in. wg.	Heat Recovery		Electronically Commutated

Greentek's most efficient series yet! The SOLACE 1.5H-EC is ideal for high-rise apartment applications, condominiums, single and multi family homes. With a completely new design, the SOLACE 1.5H-EC features a Counterflow core, round metal collars, and a high efficiency rating!

EC motors use intelligent technology with integral electronic controls to ensure energy savings no matter what the airflow demands. Reduced energy usage results in lower operating costs. The motors develop less heat so significantly less maintenance is needed and the lifetime of the motor is increased.

Features

- Electronically commutated motors (ECM)
- 6 in. (152 mm) round metal duct connections with rubberized duct seals
- Removable screw terminal for easy connection with external access
- Top port design fits in tight spaces
- Includes wall mounting speed bracket and chains
- Counterflow heat recovery core
- Multiple speed operation
- Internal recirculation defrost
- 51 lbs (22.96 kg) including core

Specifications

- Duct size – 6 in. (152 mm) round
- Voltage/Phase – 120/1
- Power rated – 110 W
- Amp – 3.0 A
- Average airflow – 172 CFM (81 L/s) @ 0.4 in. wg (100 Pa)

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) electronically commutated motors. The EC fans operate at high efficiency levels and offer a great energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an AC motor of equivalent output. Reduced energy usage guarantees a drop in operating costs.

Heat Recovery Core

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

Defrost

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 in. (355 mm) clearance.

Duct Connections

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

Case

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

Insulation

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

Filters

Two (2), UL900 certified, washable electrostatic panel type air filters 7.87 in. (200 mm) x 11.81 in. (300 mm) x 0.125 in. (3 mm).

Compatible Controls

Compatible with all Greentek controls.

Balancing and commissioning¹

Balancing must be completed using the Greentek STS 2.0 Programmable Touch Screen Wall Control.

Installation

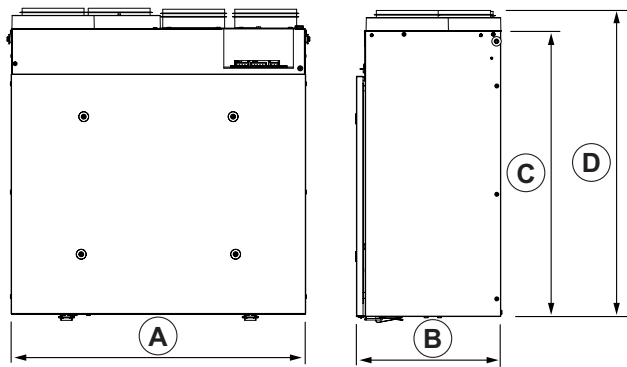
This appliance can be wall mounted using the mounting bracket or hung from the ceiling with the hanging chain installation kit.

Warranty

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

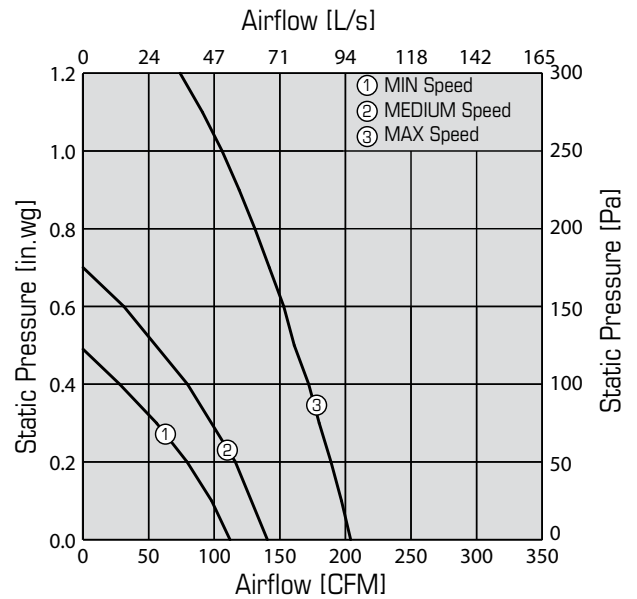
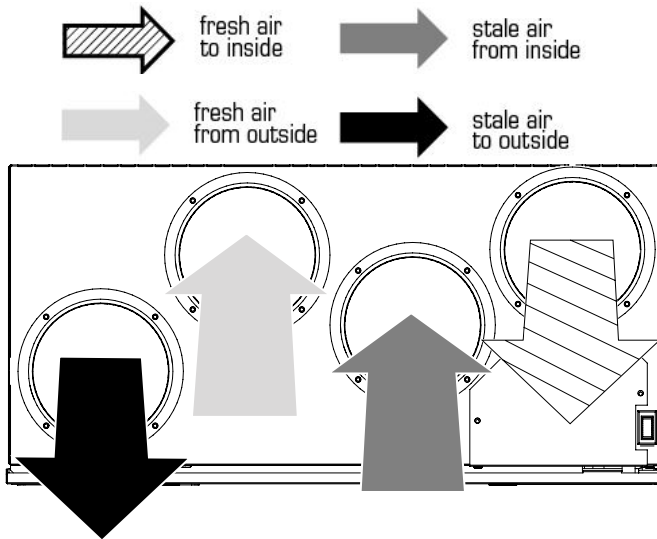


Dimensions & Airflow



A		B		C		D	
in	mm	in	mm	in	mm	in	mm
27 7/8	707	13 3/8	341	23	584	24 7/8	626

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



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	189 (89)	180 (85)	172 (81)	161 (76)	153 (72)	142 (67)	131 (62)	119 (56)	106 (50)
Gross supply airflow	191 (90)	182 (86)	174 (82)	165 (78)	155 (73)	144 (68)	133 (63)	121 (57)	106 (50)
Gross exhaust airflow	201 (95)	191 (90)	180 (85)	170 (80)	159 (75)	146 (69)	133 (63)	121 (57)	106 (50)

¹ Balancing Range : 90 CFM (42 L/s) to 210 CFM (99 L/s). If 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	Fan efficacy	Sensible recovery efficiency	Adjusted Sensible recovery efficiency	Latent recovery/moisture transfer
	°F	°C	CFM	L/s	W	CFM/W	%	%	-
	32	0	70	33	23	3.0	84	86	0.00
	32	0	106	50	37	2.8	80	83	0.00
	32	0	157	74	89	1.7	77	81	0.00
	-13	-25	66	31	47	1.4	68	69	0.14

Contacts

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

Distributed by:

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