

Solace® 2.5H-EC

Fresh Air Appliance (FAA/HRV)

Product #: 463316



Greentek's most efficient series yet! The Solace 2.5H-EC is ideal for high-rise apartment applications, condominiums, single and multi family homes. With a completely new design, the Solace 2.5H-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" (152mm) 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
- 55.6 lbs (25.2 kg) including core

Optional Controls:

- STS 2.0 (461580) Programmable touch screen wall control
- EHC 2.5 (415518) Electronic multi-function dehumidistat
- EHC 2.0 (415520) Multi-function controller
- T4 (415519) Wired digital timer 20/40/60 minutes
- T5 (463915) Pushbutton timer 20/40/60 minutes
- RD-1 (463020) Dehumidistat

Specifications

- Duct size – 6" (152mm) round
- Voltage/Phase – 120/1
- Power rated – 260 W
- Amp – 6.4 A
- Average airflow – 252 cfm (119 L/s)
@ 0.4" P_s (100 Pa)



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" x 14.4" (366 x 366 mm) with a 14" (355 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

Winterguard™ 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 16" (406 mm) clearance.

Duct Connections

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

Case

24 gauge galvanized pre-painted steel corrosion resistant

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 13.77" (350mm) x 0.125" (3mm).

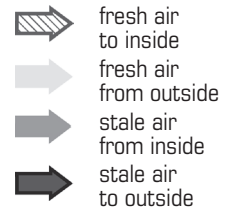
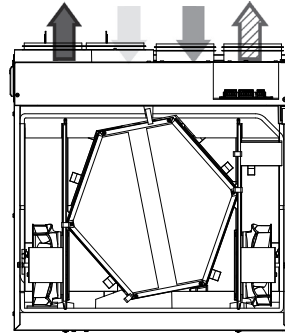
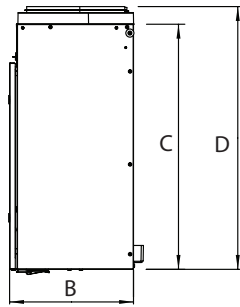
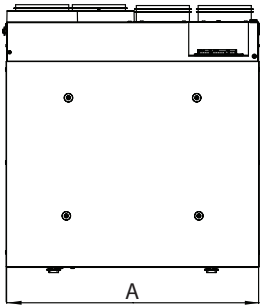
Balancing and commissioning

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

Warranty

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

Dimensions & Airflow



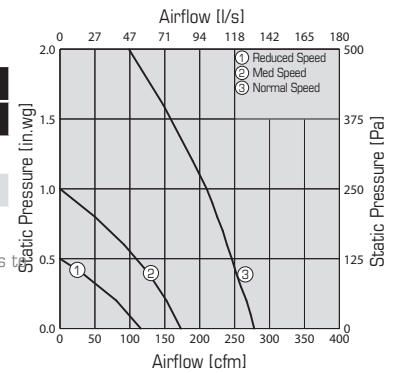
| Model | A | | B | | C | | D | |
|----------------|--------------------------------|-----|--------------------------------|-----|----|-----|--------------------------------|-----|
| | in | mm | in | mm | in | mm | in | mm |
| Solace 2.5H-EC | 27 ⁷ / ₈ | 707 | 15 ³ / ₈ | 391 | 23 | 285 | 24 ⁷ / ₈ | 626 |

Clearance of 16" (406mm) in front of the unit is recommended for removal of core.

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 | 267 (126) | 259 (122) | 252 (119) | 246 (116) | 239 (113) | 233 (110) | 225 (106) | 218 (103) | 210 (99) |
| Gross supply airflow | 284 (134) | 278 (131) | 271 (128) | 263 (124) | 256 (121) | 248 (117) | 242 (114) | 233 (110) | 225 (106) |
| Gross exhaust airflow | 299 (141) | 292 (138) | 284 (134) | 275 (130) | 267 (126) | 259 (122) | 250 (118) | 239 (113) | 229 (108) |

¹ Balancing Range : 120 cfm (57 L/s) to 280 cfm (132 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 | Sensible recovery efficiency | Adjusted Sensible recovery efficiency | Latent recovery/moisture transfer |
|---------|--------------------|-----|-------------|-----|----------------|------------------------------|---------------------------------------|-----------------------------------|
| | °F | °C | cfm | L/s | W | % | % | - |
| | 32 | 0 | 85 | 40 | 34 | 82 | 85 | 0.00 |
| | 32 | 0 | 159 | 75 | 97 | 76 | 80 | 0.00 |
| | 32 | 0 | 233 | 110 | 246 | 72 | 79 | 0.00 |
| | -13 | -25 | 83 | 39 | 65 | 63 | 65 | 0.15 |

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 obtained 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.

Contacts

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

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