

ENGINEERING DATA

Solace XPH 2.0 HRV model

Heat Recovery Ventilator

50 CFM (24 L/s) to 250 CFM (118 L/s)

Item No. 102390 (Solace XPH 2.0)



FEATURES

- 3 operating modes (Intermittent, Continuous & High)
- 100% variable speed
- ISF™ 6" (152.5 mm) dia. collar system
- Advanced proportional defrost sequence
- SPM™ Single Person Mounting system
- Permanent lubrication PSC motors

APPLICABLE REQUIREMENTS

- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N°.113 - Fans and ventilators
- UL Standard 1812. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)
- ENERGY STAR®, SRE, TRE and Fan efficacy minimum requirements

OPTIONAL ACCESSORIES

- MERV 8 Inline 6" (152.5 mm) filter box
- R-2 Style high performance supply & exhaust ventilation hoods

CABINET

- 20 gauge galvanized pre-painted steel corrosion resistant
- Cabinet liner: Molded Expanded Polystyrene (EPS) Rated UL94 HF-1

ELECTRONIC COMPONENTS

- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase.
- Electrical Input Current: 1.5 Amps Max
- Circuit output voltage: 5VDC nominal
- Integrated auxiliary furnace interlock relay
- RoHs compliant

MOTORS

- Two permanent sealed, lubricated variable speed PSC Motors. (Maintenance free)
- Maximum RPM 2695 / Horsepower; 3/32 HP. Class F, thermally protected
- CSA 22.2 #113-10, clause 8.3.5 – Backup protection – totally enclosed motor
- RoHs compliant

POLYPROPYLENE HRV CORE

- Dimensions 12" x 12" x 15" depth (304.8 mm x 304.8 mm x 381 mm)
- Corrugated cross-flow polypropylene layers, rated UL94 HB & HF-1
- Cross-flow that transfers sensible heat
- Endure harsh temperatures; effective in cold climates
- Water washable

DUOTROL™ BALANCING SYSTEM

- The system is balanced by adjusting each motor independently
- No balancing dampers required
- Connection terminals for optional wall controls
- Quiet and energy efficient

DEFROST

- Advanced Proportional supply fan shut down defrost sequence
- Defrost type: Evacuation
Activated automatically at -5°C (23°F)

DUCT CONNECTIONS

- Insert Slide & Fix (ISF™), removable collars system
- Four (4) 6" (152.5 mm) dia. round double collar.

MOUNTING

- Adjustable mounting strap system

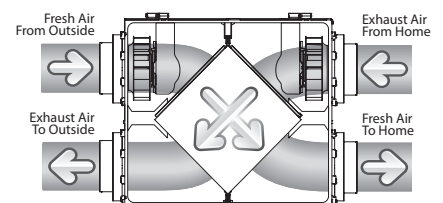
FILTERS

- Two (2) Fiberbond washable - 11¹¹/₁₆" x 14³/₄" x ⁵/₈" (297 mm x 375 mm x 15.9 mm)
- UL Class 2

WARRANTY

- 10 year limited warranty on motors
- 5 year limited warranty on parts
- Lifetime limited warranty on Heat Recovery Core

AIRFLOW



Imperial Air Technologies

480 Ferdinand Blvd.,
Dieppe, NB Canada E1A 6V9

Toll free: 1 888 724-5211
Fax: 1 (506) 388-4633

Visit us at: www.greentek.ca / www.imperialgroup.ca

PRO751 / MAY2018



Imperial Air Technologies Inc. reserves the right to modify a product, without prior notice, whether in design, colour or specifications, in order to offer at all times a quality product that is highly competitive. Please consult your national and local building codes to find out whether the installation of electrical products requires the services of a certified technician or electrician. Greentek™ is a registered Trademark used under license by Imperial Sheet Metal Ltd. All rights reserved.

ENGINEERING DATA SOLACE XPH 2.0 HRV

SPECIFICATIONS SOLACE XPH 2.0 HRV

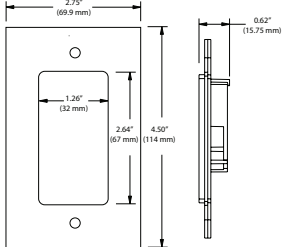
| | |
|-------------------------------|---|
| Dimensions | 29½" x 22½" x 16½" (749.3 mm x 571.5 mm x 419.1 mm) |
| Duct Connections | Four (4) 6" (152.5 mm) dia. ISF double collar system |
| Airflow Rates | 50 CFM (24 L/s) to 250 CFM (118 L/s) |
| Motor | Two (2) PSC variable speed backward curved |
| Voltage | 120 VAC @ 60 Hz / 1 Phase |
| Amperage | 1.5 A / 142 watts |
| Type of heat exchanger | Cross-flow polypropylene |
| Exchange surface | 150 ft ² (13.9 m ²) |
| Defrost type | Advanced evacuation |
| Filters | Two (2) Fiberbond washable |
| Drain Connection | ½" (12.7 mm) |
| DuoTrol | Integrated Balancing System |
| Actual Weight | 51.5 lbs (23.4 Kg) |
| Shipping Weight | 59 lbs (26.8 Kg) |
| Certification | HVI, cCSA US, CSA 22.2 N ^o .113 Complies with UL 1812 |

OPTIONAL WALL CONTROLS

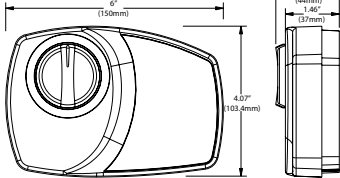
| | |
|-------------------|-----------------------------|
| Digital | EHC1.0TC and EHC1.5DC |
| Mechanical | RD-1, RD-2, RD-3P and RD-4P |
| Timers | T3 (20, 40, 60 minutes) |

WALL CONTROL DIMENSIONS

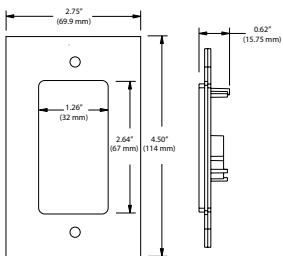
EHC1.0 & EHC1.5



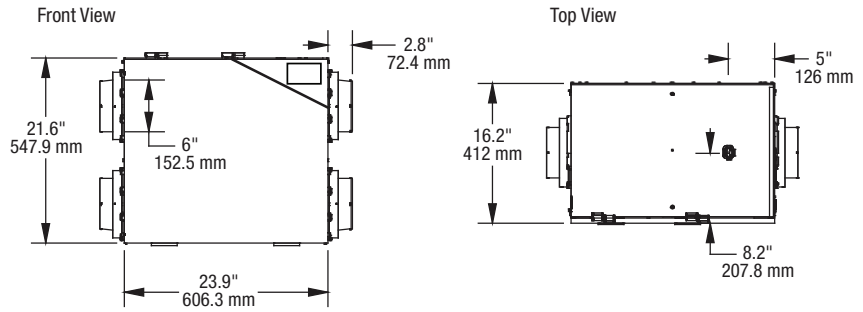
Mechanical



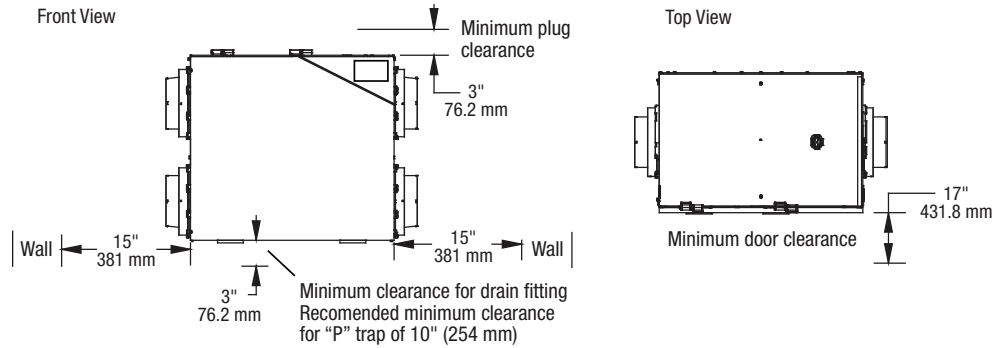
T3 Timer



DIMENSIONS DATA

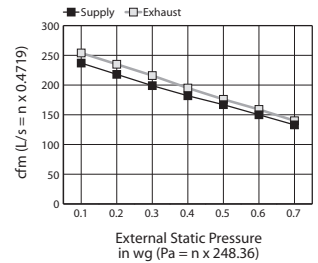


MINIMUM CLEARANCE DATA



VENTILATION PERFORMANCE

| External Static Pressure | Net Supply Air Flow | | Gross Air Flow Supply | | Gross Air Flow Exhaust | | |
|--------------------------|---------------------|--------|-----------------------|-----|------------------------|-----|-----|
| | Pa | in. wg | L/s | CFM | L/s | CFM | L/s |
| 25 | 0.1 | 111 | 235 | 112 | 237 | 120 | 254 |
| 50 | 0.2 | 102 | 216 | 103 | 218 | 111 | 235 |
| 75 | 0.3 | 93 | 197 | 94 | 199 | 102 | 216 |
| 100 | 0.4 | 85 | 180 | 86 | 182 | 92 | 195 |
| 125 | 0.5 | 78 | 165 | 79 | 167 | 83 | 176 |
| 150 | 0.6 | 70 | 148 | 71 | 150 | 75 | 159 |
| 175 | 0.7 | 62 | 131 | 63 | 133 | 66 | 140 |



This product earned the ENERGY STAR[®] by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR[®] requirements only when used in Canada.

ENERGY PERFORMANCE

| | Supply Temperature | | Net Air Flow | | Power Consumed | Sensible Recovery | Adjusted Sensible |
|----------------|--------------------|-----|--------------|-----|----------------|--------------------|------------------------------|
| | °C | °F | L/s | CFM | Watts | Efficiency (SRE %) | Recovery Efficiency (ASRE %) |
| HEATING | 0 | 32 | 31 | 66 | 58 | 75 | 82 |
| | 0 | 32 | 43 | 91 | 70 | 73 | 80 |
| | 0 | 32 | 60 | 127 | 88 | 69 | 75 |
| | -25 | -13 | 31 | 66 | 55 | 60 | 63 |

| | |
|-------------|----------|
| Quoted by: | Date: |
| Project: | Remarks: |
| Quantity: | |
| Model: | |
| Site: | |
| Architect: | |
| Engineer: | |
| Contractor: | |