

ENGINEERING DATA

Solace XPH 1.5 HRV model

Heat Recovery Ventilator

30 CFM (24 L/s) to 150 CFM (71 L/s)

Item No. 463003 (Solace XPH 1.5)



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: 1.0 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 2630 / 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 10" depth (304.8 mm x 304.8 mm x 254 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

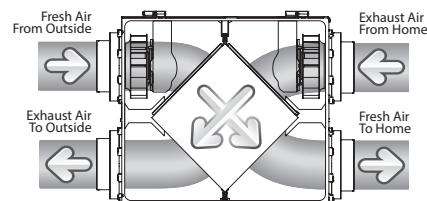
FILTERS

- Two (2) Fiberbond washable - 11" x 9" x 1" (297 mm x 248 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



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463717 / OCT 2018



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SPECIFICATIONS SOLACE 1.5 HRV

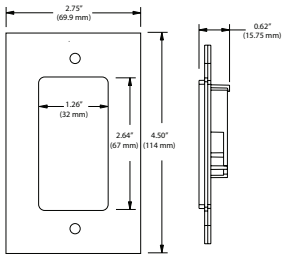
Dimensions	29½" x 22½" x 11⅞" (749.3 mm x 571.5 mm x 289 mm)
Duct Connections	Four (4) 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	30 CFM (14 L/s) to 150 CFM (71 L/s)
Motor	Two (2) PSC variable speed backward curved
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	1 A / 100 watts
Type of heat exchanger	Cross-flow polypropylene
Exchange surface	85 ft² (7.9 m²)
Defrost type	Advanced evacuation
Filters	Two (2) Fiberbond washable
Drain Connection	½" (12.7 mm)
DuoTrol	Integrated Balancing System
Actual Weight	43.5 lbs (19.7 Kg)
Shipping Weight	49 lbs (22.2 Kg)
Certification	HVI, cCSAUs, CSA 22.2 N°113 Complies with UL 1812

OPTIONAL WALL CONTROLS

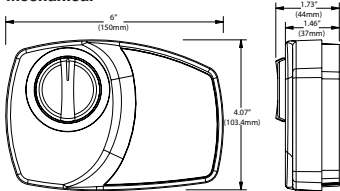
Digital	EHC1.0TC and EHC1.5DC
Mechanical	RD-1, RD-2, RD-3P and RD-4P
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

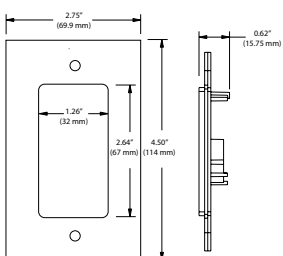
EHC1.0 & EHC1.5



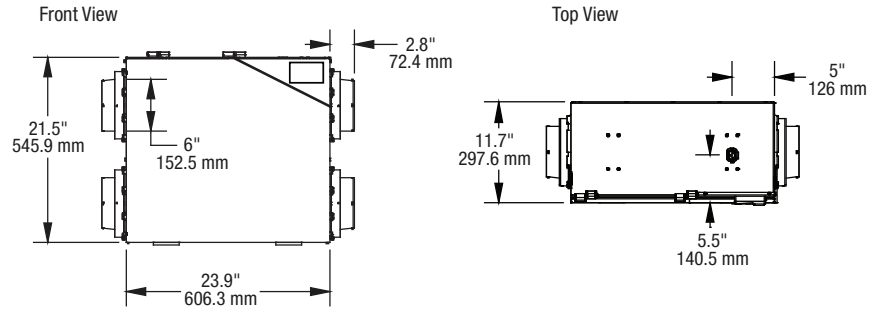
Mechanical



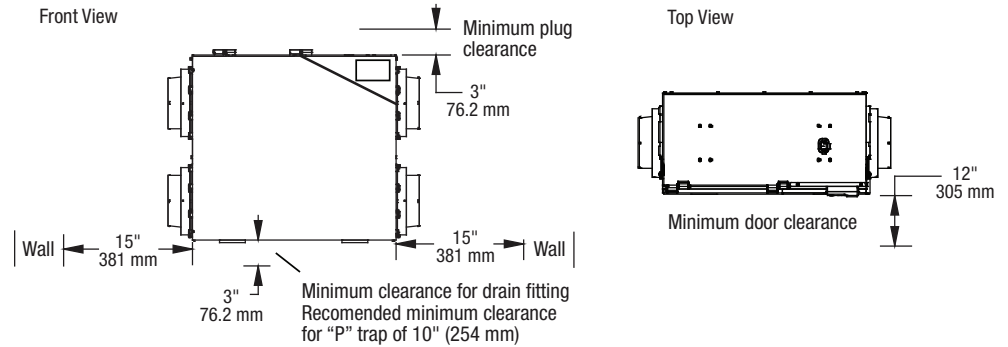
T3 Timer



DIMENSIONS DATA

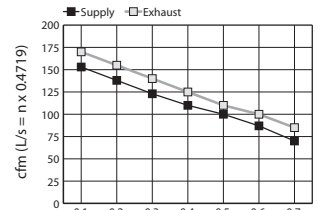


MINIMUM CLEARANCE DATA



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	71	150	72	153	80	170
50	0.2	64	136	65	138	73	155
75	0.3	58	123	58	123	66	140
100	0.4	52	110	52	110	59	125
125	0.5	47	100	47	100	52	110
150	0.6	40	85	41	87	47	100
175	0.7	33	70	33	70	40	85



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	30	64	52	70	76
	0	32	40	85	64	65	71
	0	32	50	106	78	64	69
	-25	-13	33	70	51	60	62

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