

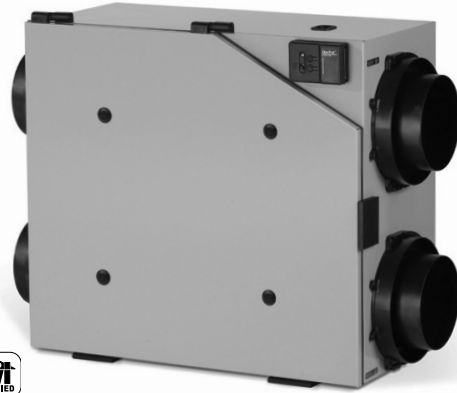
ENGINEERING DATA

PH 10.22 ES HRV model

Heat Recovery Ventilator

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

Item No. 463030 (PH 10.22 ES Greentek)



FEATURES

- 3 operating modes (Intermittent, Continuous & High)
- 100% variable speed
- Integrated door pressure balancing taps
- ISF™ 6" (152.5 mm) dia. collar system
- Proportional defrost sequence
- SPM™ Single Person Mounting system
- Permanent lubrication of 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

- 22 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

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

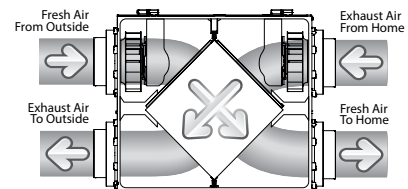
FILTERS

- Two (2) Fiberbond washable - 11¹/₁₆" 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



Greentek
50 Kanalfakt Way,
Boucouché, NB Canada E4S 3M5

Toll free: 1 888 724-5211
Fax: 1 (866) 426-7430

Visit us at: www.greentek.ca

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ENGINEERING DATA PH 10.22 ES HRV

SPECIFICATIONS PH 10.22 ES HRV

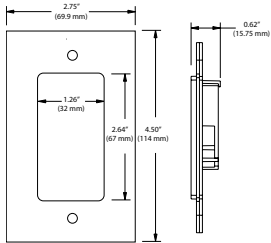
Dimensions	29½" x 22½" x 16½" (749.3 mm x 571.5 mm x 419.1 mm)
Duct Connections	Four (4) 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	50 CFM (24 L/s) to 250 CFM (118 L/s)
Motor	Two (2) PSC variable speed backward curved
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	1.5 A / 142 watts
Type of heat exchanger	Cross-flow polypropylene
Exchange surface	150 ft ² (13.9 m ²)
Defrost type	Evacuation
Filters	Two (2) Fiborbond 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, cCSAUS, CSA 22.2 N ^o .113 Complies with UL 1812

OPTIONAL WALL CONTROLS

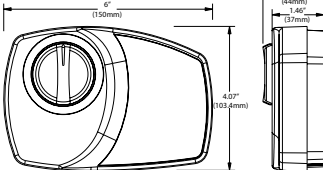
Digital	EHC1.0TC and EHC1.5DC
Mechanical	RD-1, RD-2, RD-3P and RD-4P
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

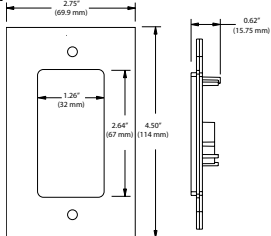
EHC1.0 & EHC1.5



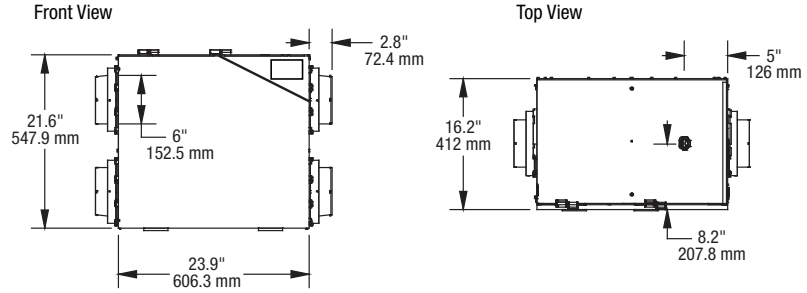
Mechanical



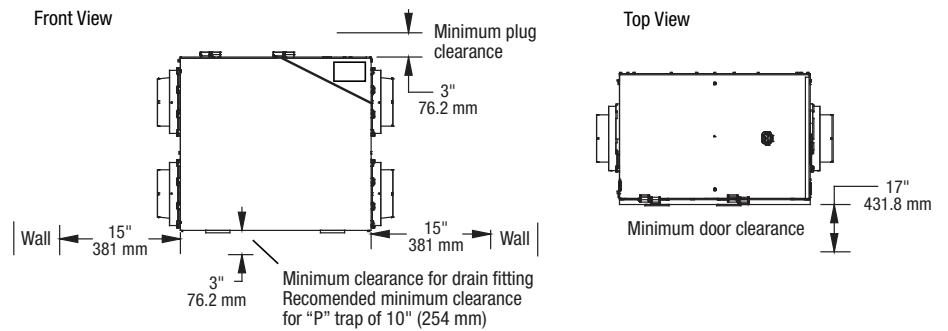
T3 Timer



DIMENSIONS DATA

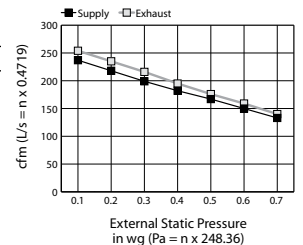


MINIMUM CLEARANCE DATA



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:	