

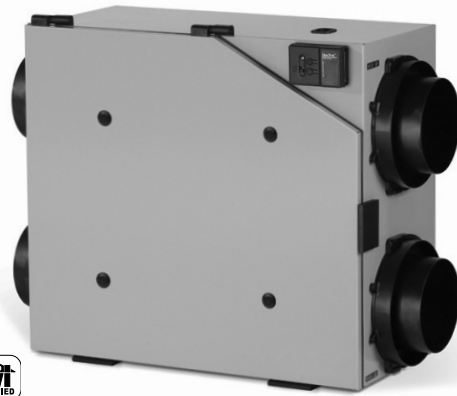
# ENGINEERING DATA

## PH 10.22 HRV model

Heat Recovery Ventilator

70 CFM (33 L/s) to 220 CFM (104 L/s)

Item No. 463001 (PH 10.22 Greentek)



### FEATURES

- 4 operating modes (Econo\*, 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 PSC motors

*\*Econo ventilation mode offered when Vectra Series wall controls model EHC1.0TC or EHC1.5DC are connected to system.*

### APPLICABLE REQUIREMENTS

- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N<sup>o</sup>.113 - Fans and ventilators
- UL Standard 1812. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)

### 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

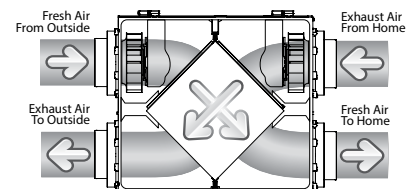
### FILTERS

- Two (2) Fiberbond washable - 11<sup>1</sup>/<sub>16</sub>" x 14<sup>3</sup>/<sub>4</sub>" x <sup>5</sup>/<sub>8</sub>" (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



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# ENGINEERING DATA PH 10.22 HRV

## SPECIFICATIONS PH 10.22 HRV

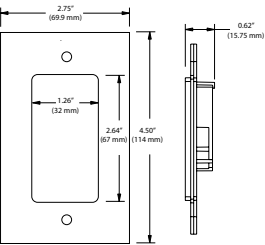
<b>Dimensions</b>	29½" x 22½" x 16½" (749.3 mm x 571.5 mm x 419.1 mm)
<b>Duct Connections</b>	Four (4) 6" (152.5 mm) dia. ISF double collar system
<b>Airflow Rates</b>	70 CFM (33 L/s) to 220 CFM (104 L/s)
<b>Motor</b>	Two (2) PSC variable speed backward curved
<b>Voltage</b>	120 VAC @ 60 Hz / 1 Phase
<b>Amperage</b>	1.5 A / 142 watts
<b>Type of heat exchanger</b>	Cross-flow polypropylene
<b>Exchange surface</b>	150 ft <sup>2</sup> (13.9 m <sup>2</sup> )
<b>Defrost type</b>	Evacuation
<b>Filters</b>	Two (2) Fiborbond washable
<b>Drain Connection</b>	½" (12.7 mm)
<b>DuoTrol</b>	Integrated Balancing System
<b>Actual Weight</b>	51 lbs (23.1 Kg)
<b>Shipping Weight</b>	58.5 lbs (26.5 Kg)
<b>Certification</b>	HVI, cCSA US, CSA 22.2 N <sup>o</sup> .113 Complies with UL 1812

## OPTIONAL WALL CONTROLS

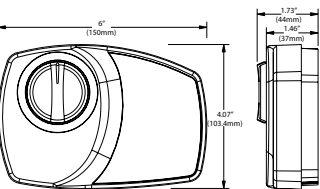
<b>Digital</b>	EHC1.0TC and EHC1.5DC
<b>Mechanical</b>	RD-1, RD-2, RD-3P and RD-4P
<b>Timers</b>	T3 (20, 40, 60 minutes)

## WALL CONTROL DIMENSIONS

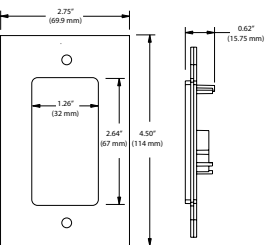
### EHC1.0 & EHC1.5



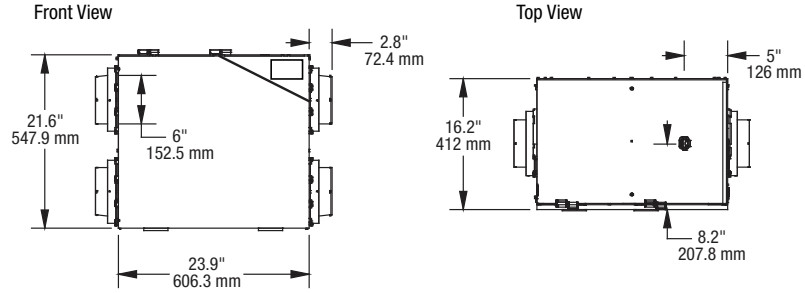
### Mechanical



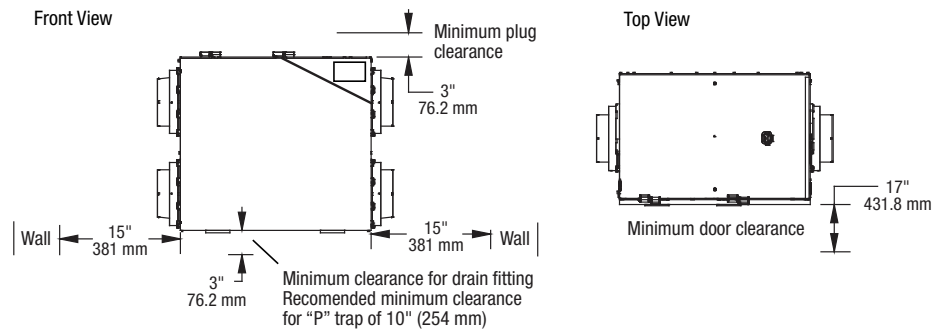
### T3 Timer



## DIMENSIONS DATA

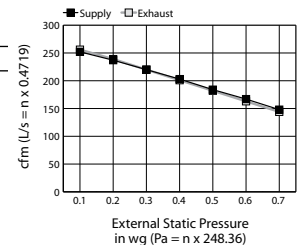


## MINIMUM CLEARANCE DATA



## 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	119	252	119	252	121	256
50	0.2	111	235	112	237	113	239
75	0.3	103	218	104	220	104	220
100	0.4	95	201	96	203	95	201
125	0.5	86	182	87	184	86	182
150	0.6	79	167	79	167	77	163
175	0.7	70	148	70	148	68	144



## ENERGY PERFORMANCE

	Supply Temperature		Net Air Flow		Power Consumed	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency
	°C	°F	L/s	CFM	Watts	SRE %	ASRE %
<b>HEATING</b>	0	32	29	61	62	75	82
	0	32	43	91	74	72	78
	0	32	60	127	92	67	72
	-25	-13	33	70	59	58	61

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