# ENGINEERING DATA

# C 3.14 HRV model

Heat Recovery Ventilator
30 CFM (14 L/s) to 140 CFM (66 L/s)

Item No. 463002 (C 3.14 Greentek)

## FEATURES

- 4 operating modes (Intermittent, Continuous, Recirculation* & High)
- 100% variable speed
- 5" (127 mm) oval collar system
- Proportional defrost sequence
- Single person mounting system
- Permanent lubrification of PSC motors
- Intergrated balancing taps in door

** Recirculation mode available with optional Vectra EHC 1.5 Control*

## APPLICABLE REQUIREMENTS

- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N$^{0}$.113 - Fans and ventilators
- UL Standard 1812. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)
- Energy Star®, SRE and fan efficancy minimum requirements, for packaged Heat and Energy Recovery Ventilators.

## OPTIONAL ACCESSORIES

- MERV 8 Inline 6" (152.5 mm) filter box
- Matrix 2 in 1 high performance concentric ventilation hood
- 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: 1.0 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, clause 8.3.5 – Backup protection – totally enclosed motor

## POLYPROPYLENE HRV CORE

- Dimensions 10"x 10"x 12.8" depth (254 mm x 254 mm x 325 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 defrost sequence
- Defrost type: Recirculation Activated automatically at -5°C (23°F)

## DUCT CONNECTIONS

- Four (4) 5" (127 mm) oval double collar

## MOUNTING

- Adjustable mounting strap system

## FILTERS

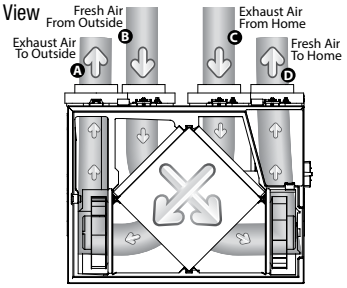
- Two (2) Fiberbond washable - 12.8"x 10"x 5/8" (325 mm x 254 mm x 15.9 mm)
- UL Class 2

## WARRANTY

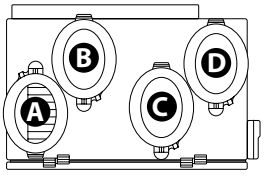
- 5 year limited warranty on motors
- 5 year limited warranty on parts
- Lifetime limited warranty on Heat Recovery Core

## AIRFLOW

Front View




Top View

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# ENGINEERING DATA C 3.14 HRV

## SPECIFICATIONS C 3.14 HRV

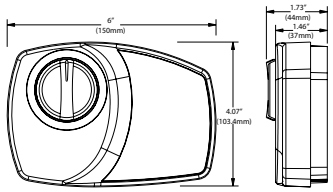
| | |
|---|---|
| **Dimensions** | 23 3/32"x 17 13/32"x 15 51/64" (587 mm x 442 mm x 401 mm) |
| **Duct Connections** | Four (4) 5" (127 mm) oval |
| **Airflow Rates** L/s) | 30 CFM (14 L/s) to 140 CFM (66 |
| **Motor** | Two (2) PSC variable speed backward curved |
| **Voltage** | 120 VAC @ 60 Hz / 1 Phase |
| **Amperage** | 1.0 A / 100 watts |
| **Type of heat exchanger** | Cross-flow Polypropylene |
| **Exchange surface** | 85 ft² (7.8 m²) |
| **Defrost type** | Recirculation |
| **Filters** | Two (2) Fiberbond washable |
| **Drain Connection** | ½" (12.7 mm) |
| **DuoTrol** | Integrated Balancing System |
| **Actual Weight** | 45.5 lbs (20.6 Kg) |
| **Shipping Weight** | 50 lbs (22.7 Kg) |
| **Certification** | HVI, cCSAus, CSA 22.2 N⁰.113 Complies with UL 1812 |

## OPTIONAL WALL CONTROLS

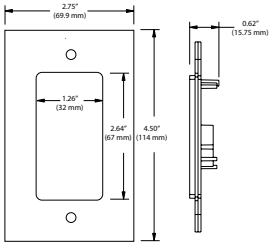
| | |
|---|---|
| **Mechanical** | RD-1, EHC1.0TC and EHC1.5DC |
| **Timers** | T3 (20, 40, 60 minutes) |

## WALL CONTROL DIMENSIONS

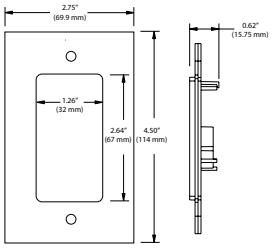
**RD-1**



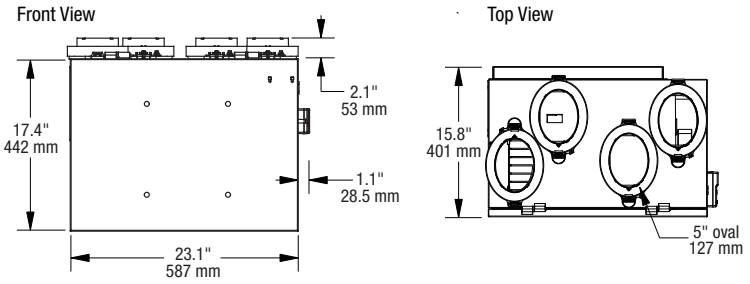

**EHC1.0TC and EHC1.5DC**



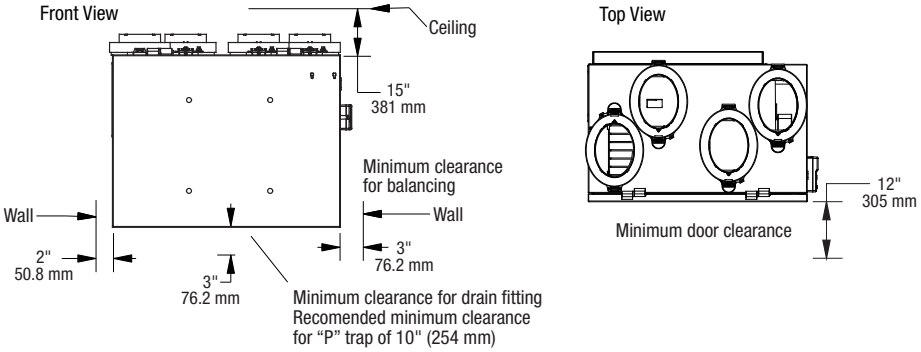

**T3 Timer**




## DIMENSIONS DATA

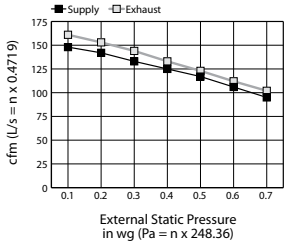



## MINIMUM CLEARANCE DATA




## 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 | CFM |
| 25 | 0.1 | 69 | 146 | 70 | 148 | 76 | 161 |
| 50 | 0.2 | 66 | 140 | 67 | 142 | 72 | 153 |
| 75 | 0.3 | 62 | 131 | 63 | 133 | 68 | 144 |
| 100 | 0.4 | 58 | 123 | 59 | 125 | 63 | 133 |
| 125 | 0.5 | 54 | 114 | 55 | 117 | 58 | 123 |
| 150 | 0.6 | 49 | 104 | 50 | 106 | 53 | 112 |
| 175 | 0.7 | 44 | 93 | 45 | 95 | 48 | 102 |




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 Efficiency | Adjusted Sensible Recovery Efficiency |
|---|---|---|---|---|---|---|---|
| | °C | °F | L/s | CFM | Watts | SRE % | ASRE % |
| HEATING | 0 | 32 | 24 | 51 | 52 | 75 | 82 |
| | 0 | 32 | 30 | 64 | 58 | 73 | 79 |
| | 0 | 32 | 40 | 85 | 70 | 69 | 75 |
| | -25 | -13 | 32 | 68 | 66 | 65 | 68 |
| | -25 | -13 | 25 | 53 | 56 | 64 | 67 |

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