ENGINEERING DATA

RNC12 HRV model

Heat Recovery Ventilator
comes with EHC1.0TC wall control

30 CFM (14 L/s) to 100 CFM (47 L/s)

Item No. 463118 (RNC12 HRV)

FEATURES

- 4 operating modes (Intermittent, Continuous, Recirculation* & High)
- 100% variable speed
- 5" (127 mm) oval collar system
- Proportional damper 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

- 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: 0.85 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 3135 / Horsepower; 1/11 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" (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

DEFROST

- Advanced Proportional damper defrost sequence
- Defrost type: Recirculation Activated automatically at -5°C (23°F)

DUCT CONNECTIONS

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

MOUNTING

- Hanging chains

FILTERS

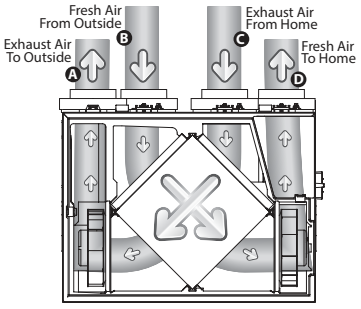
- Two (2) Fiberbond washable - 12.8"x 10"x 5/8" (325 mm x 254 mm x 15.9 mm)
- UL Class 2

WARRANTY

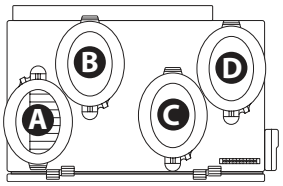
- 2 year limited warranty on motors
- 2 year limited warranty on parts
- Lifetime limited warranty on Heat Recovery Core

AIRFLOW

Front View



Top View



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463782 / OCT 2018

ENGINEERING DATA RNC12 HRV

SPECIFICATIONS RNC12 HRV

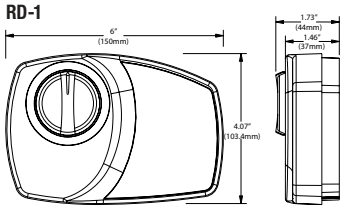
Dimensions	23 3/32"x 17 13/32"x 15 51/64" (587 mm x 442 mm x 401 mm)
Duct Connections	Four (4) 5" (127 mm) oval
Airflow Rates	30 CFM (14 L/s) to 100 CFM (47 L/s)
Motor	Two (2) PSC variable speed backward curved
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	0.85 A / 66 watts
Type of heat exchanger	Cross-flow Polypropylene
Exchange surface	85 ft² (7.8 m²)
Defrost type	Recirculation
Filters	Two (2) Fiberbond washable
Drain Connection	½" (12.7 mm)
Actual Weight	45.5 lbs (20.6 Kg)
Shipping Weight	50 lbs (22.7 Kg)
Certification	HVI, cCSAus, CSA 22.2 N°.113 Complies with UL 1812

OPTIONAL WALL CONTROLS

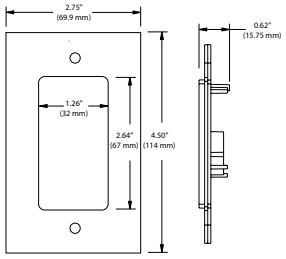
Digital	EHC1.0TC and EHC1.5DC
Mechanical	RD-2, RD-3D and RD-4D
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

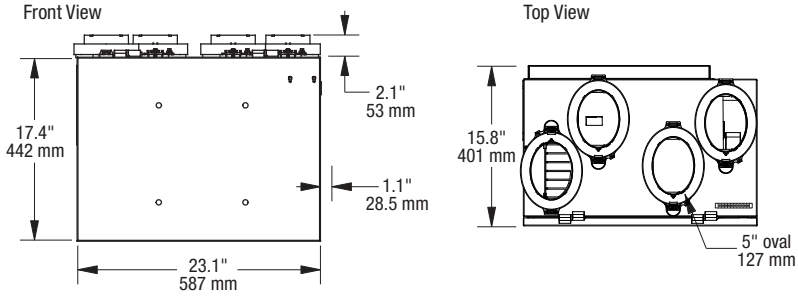
RD-1



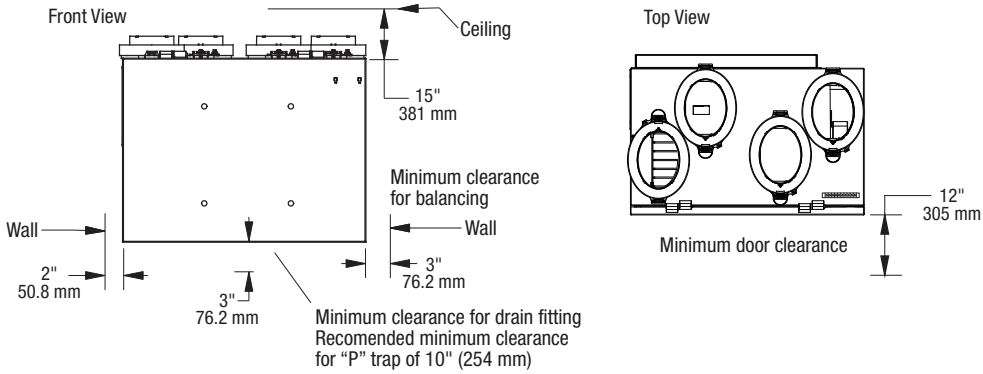
Digital & T3 Timer



DIMENSIONS DATA



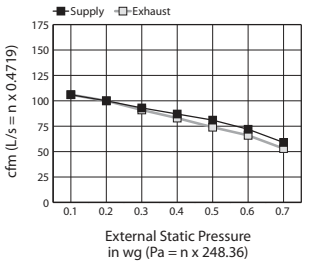
MINIMUM CLEARANCE DATA



VENTILATION PERFORMANCE (HVI Certification Pending)

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	49	104	50	106	50	106
50	0.2	46	97	47	100	47	100
75	0.3	43	91	44	93	43	91
100	0.4	40	85	41	87	39	83
125	0.5	37	78	38	81	35	74
150	0.6	33	70	34	72	31	66
175	0.7	27	57	28	59	25	53

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 (HVI Certification Pending)

	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	42	76	82
	0	32	30	64	48	75	80
	0	32	39	83	54	71	76
	-25	32	30	64	50	62	65

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