Heat Recovery Ventilator
VH30120R

CLEAN COMFORT™
INDOOR AIR ESSENTIALS

Features
- Four operating modes (Intermittent, Continuous, Recirculation and High)
- 100% variable speed
- ISF™ (Insert, Slide and Fix) 6" (127 mm) oval collar system
- Advanced proportional supply fan shut-down defrost sequence
- Factory-installed, adjustable hanging strap system
- Dual permanently lubricated PSC motors
- Integrated auxiliary furnace interlock relay
- Ventilator can be balanced by adjusting each motor independently; no balancing dampers required
- Connection terminals for optional wall controls
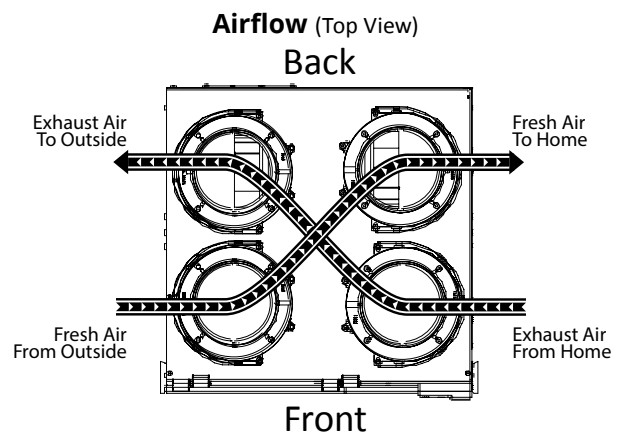- Quiet operation

Heat Recovery Core
- Transfers sensible heat
- Effective in warm and cold climates
- Water washable

Optional Accessories
- Matrix 2-in-1 high-performance concentric ventilation hood

Certifications and Standards
- HVI Certified
- CSA C439 Standard (Packaged Heat/Energy Recovery Ventilators (HRV/ERV))
- CSA Standard CSA 22.2 NO.113-10 (Fans and ventilators)
- UL Standard 1812 2nd Ed. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)

Airflow (Top View)

Back

Exhaust Air To Outside

Fresh Air To Home

Fresh Air From Outside

Exhaust Air From Home

Front

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Specifications VH30120R

Cabinet

Dimensions	26-1/32"x 16-1⁄32" x 21" (675.6 mm x 421.6 mm x 533.4 mm)
Construction	20-gauge galvanized pre-painted steel corrosion-resistant liner: molded expanded Polystyrene (EPS) Rated UL94 HF-1
Duct Connections	Four, 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	30 CFM (14 L/s) to 120 CFM (57 L/s)

Motors

	Two PSC variable-speed backward curved Maximum RPM 2695; 3/32 HP, class F, thermally protected
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	1.5 A / 142 W
Electronic Components	Circuit output voltage: 5VDC nominal RoHS compliant

Heat Exchanger

	Polypropylene HRV Core
Exchange surface	98 ft^2 (9.1 m^2)
Dimensions	10"L x 10⁷/₈"W x 10"D (254 mm x 275 mm x 254 mm)
Construction	Corrugated cross-flow polypropylene layers Recognized UL94 HB and HF-1
Defrost type	Recirculation
Filters	Two Fiberbond washable
Drain Connection	½" (12.7 mm)
Actual Weight	47 lbs (21.3 Kg)
Shipping Weight	56 lbs (25.4 Kg)

Optional Wall Controls

Mechanical	VHP-RD3D
Timers	VHP-T3 (20, 40, 60 minutes)

Wall Control Dimensions

VHP-RD3D

6" (150mm)
1.73" (44mm)
1.46" (37mm)
4.07" (103.4mm)

VHP-T3 Timer

2.75" (69.9 mm)
0.62" (15.75 mm)
1.26" (32 mm)
2.64" (67 mm)
4.50" (114 mm)
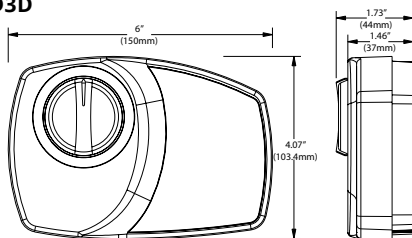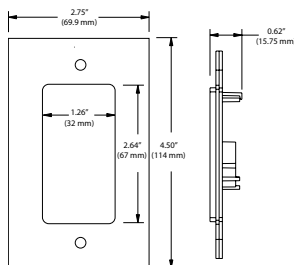
Dimensional Data

Side View

6" 152.5 mm
2.8" 72.4 mm
14.6" 372 mm

Top View

21.0" 533 mm
21" 533 mm
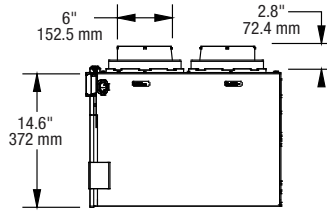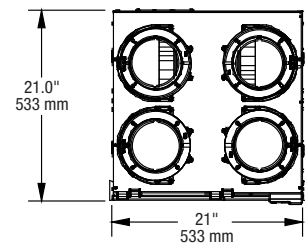
Minimum Clearance Data

Side View

Ceiling
15" 381 mm
3" 76.2 mm
Minimum clearance for drain fitting Recomended minimum clearance for "P" trap of 10" (254 mm)

Top View

5" 127 mm
Minimum door clearance
12" 305 mm
3" 76.2 mm
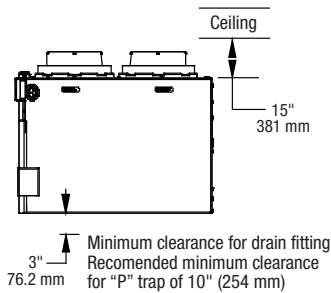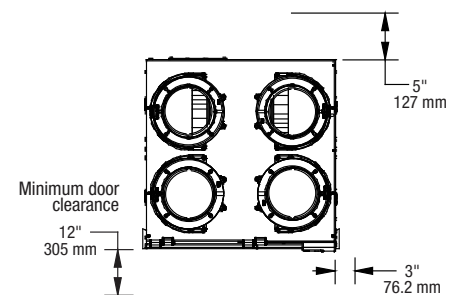
Ventilation Performance

External Static Pressure		Net Supply Airflow		Gross Airflow Supply		Gross Airflow Exhaust	
Pa	In. wg	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	55	116	55	117	67	142
50	0.2	50	107	51	109	62	132
75	0.3	46	98	47	100	57	122
100	0.4	42	90	43	91	53	112
125	0.5	38	81	39	83	49	103
150	0.6	34	73	35	74	44	94
175	0.7	30	64	31	65	40	85

Supply — Exhaust
cfm (L/s = n x 0.4719)
External Static Pressure in wg (Pa = n x 248.36)
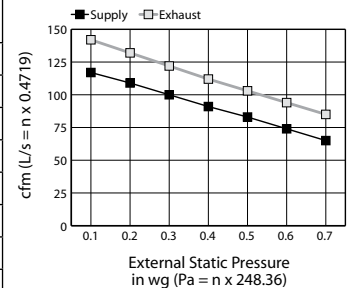
Energy Performance

	Supply Temperature		Net Airflow		Power Consumed (Watts)	Sensible Recovery Efficiency
	°C	°F	L/s	CFM		
Heating	0	32	24	50	70	64
	0	32	31	65	84	62
	0	32	41	86	106	59
	-25	-13	31	66	94	55