

# Heat Recovery Ventilator VH70220

**CLEAN COMFORT™**  
INDOOR AIR ESSENTIALS

## Features

- Three operating modes (Intermittent, Continuous and High)
- 100% variable speed
- Integrated door pressure balancing taps
- ISF™ (Insert, Slide and Fix) 6" (153 mm) dia. 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

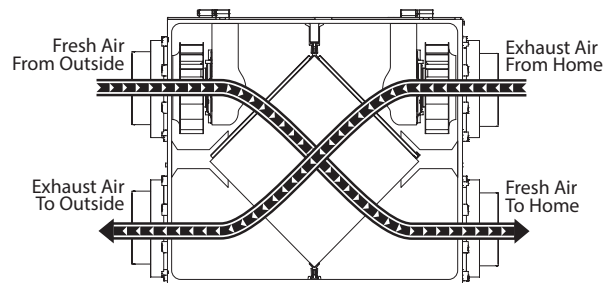
- Transfers sensible heat
- Effective in warm and cold climates
- Water washable

## 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)



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## Specifications VH70220

### Cabinet

**Dimensions** 29½" x 22½" x 16½"  
(749.3 mm x 571.5 mm x 419.1 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** 70 CFM (33 L/s) to 220 CFM (104 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 Exchange surface Dimensions** Polypropylene HRV Core  
150 ft<sup>2</sup> (13.9 m<sup>2</sup>)  
12" L x 12" W x 15" D  
(304.8 mm x 304.8 mm x 381 mm)

**Construction** Corrugated cross-flow polypropylene layers  
Recognized UL94 HB and HF-1

**Defrost type** Evacuation; activated automatically at 23°F (-5°C)

**Filters** Two Fiberbond washable  
11-11/16" x 14-3/4" x 5/8"  
(297 mm x 375 mm x 16 mm)

**Drain Connection** ½" (12.7 mm)

**Actual Weight** 51 lbs (23.1 Kg)

**Shipping Weight** 58½ lbs (26.5 Kg)

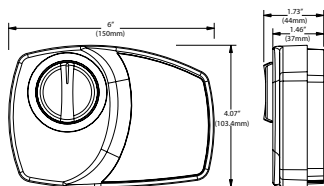
### Optional Wall Controls

**Mechanical** VHP-RD1, VHP-TC10 or VHP-DC15

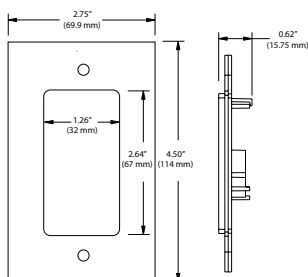
**Timers** VHP-T3 (20, 40, 60 minutes)

### Wall Control Dimensions

#### VHP-RD1



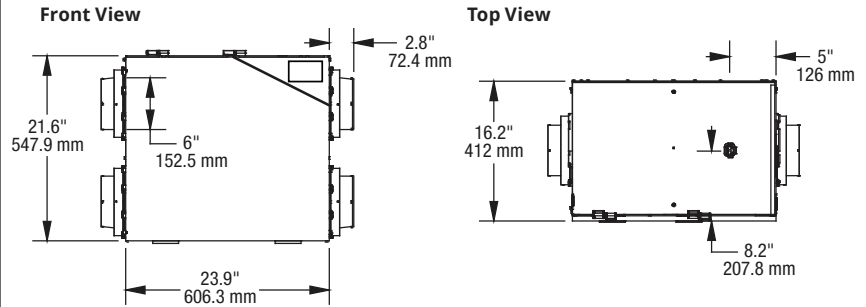
#### VHP-T3 Timer and



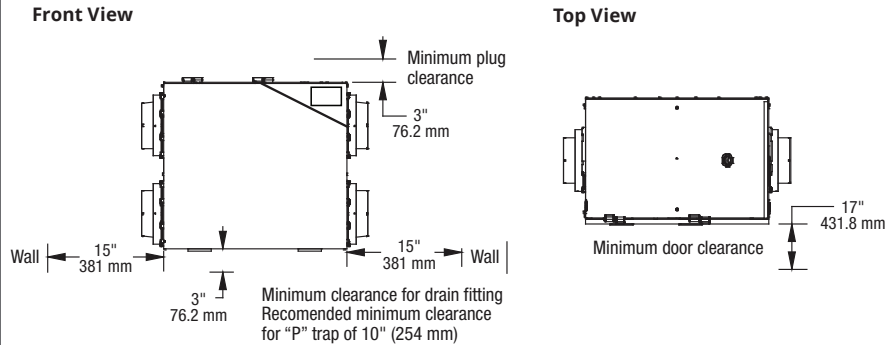
VHP-TC10 /  
VHP-DC-15

Wall Controls

### Dimensional Data

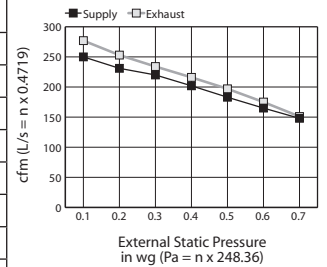


### Minimum Clearance Data



### 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	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 Airflow		Power Consumed (Watts)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency
	°C	°F	L/s	CFM			
Heating	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

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