## Energy Recovery Ventilator VE70220

# CLEAN COMFORT INDOOR AIR ESSENTIALS

#### **Features**

- Three operating modes (Intermittent, Continuous and High)
- 100% variable speed
- 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

#### **Energy Recovery Core**

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

#### **Optional Accessories**

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

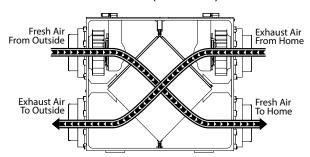
#### **Certifications and Standards**

- 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 (Front View)



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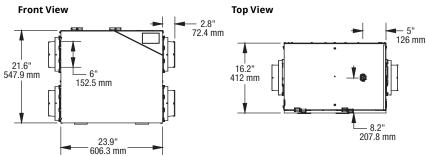
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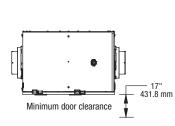
#### Specifications VE70220 Cabinet 29½ "x 22½ " x 16½" **Dimensions** (749.3 mm x 571.5 mm x 419.1 mm) Construction 20-gauge galvanized pre-painted steel corrosion-resistant liner: molded expanded Polystyrene (EPS) Rated UL94 HF-1 Duct Connections Four, 6" (152.5 mm) dia. ISF double collar system **Airflow 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 120 VAC @ 60 Hz / 1 Phase Voltage **Amperage** 1.5 A / 142 W **Electronic** Circuit output voltage: 5VDC nominal Components RoHS compliant **Heat Exchanger** dpoint cross-flow (Enthalpic Polymer Membrane) Exchange surface 127 ft<sup>2</sup> (11.8 m<sup>2</sup>) **Dimensions** 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"x14-3/4"x5/8" (297 mm x 375 mm x 16 mm) **Drain Connection** ½" (12.7 mm) **Actual Weight** 50 lbs (22.7 Kg) **Shipping Weight** 57½ lbs (26.1 Kg) **Optional Wall Controls** Mechanical VHP-RD1 or VHP-RD3P **Timers** VHP-T3 (20, 40, 60 minutes) W ۷H

#### **Dimensional Data**

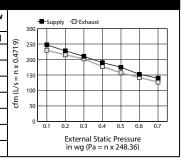


### **Minimum Clearance Data**

Wall 381 mm Minimum clearance for drain fitting Recomended minimum clearance for "P" trap of 10" (254 mm)



1	Venti								
	Externa Pres		Net Supply Airflow		Gross / Sup		Gross Airflow Exhaust		
	Pa	in. wg	L/s	CFM	L/s	CFM	L/s	CFM	l
	25	0.1	115	244	116	247	108	230	l
	50	0.2	106	225	107	228	101	215	l
	75	0.3	98	208	99	210	95	202	١
1	100	0.4	88	188	89	190	83	177	l
1	125	0.5	81	173	82	175	74	157	l
1	150	0.6	71	150	71	152	67	142	
	175	0.7	65	139	66	140	60	127	l



Wall Control Dimensions  HP-RD1 or VHP-RD3P		Energy Performance								
		Supply Temperatu		e Net Airflow		Power Consumed (Watts)	Sensible Recovery Efficiency	Latent Recovery Moisture Transfer		
		°C	°F	L/s	СҒМ			Transici		
4.07* (103.decen)		0	32	37	78	74	71	0.44		
	ating	0	32	50	107	80	72	0.41		
	Hea	0	32	71	150	102	69	0.35		

Total Recovery Efficiency

35 95 35 75 72 — 48

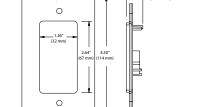
58

0.27

65

75

36



**VHP-T3 Timer** 

-15

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