

Energy Recovery Ventilator VE30160

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

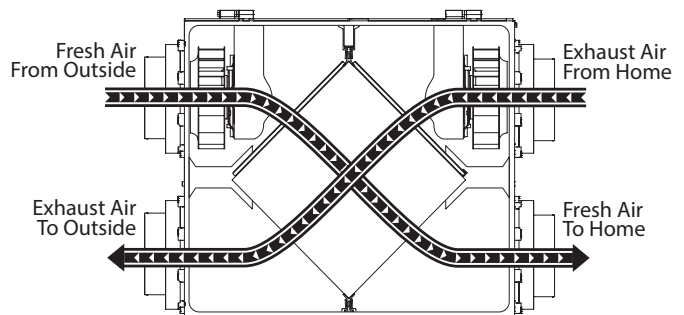
- Transfers both sensible and latent heat
- Effective in warm and cold climates
- Water washable

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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Specifications VE30160

Cabinet

Dimensions 29½" x 22½" x 11⅜"
(749.3 mm x 571.5 mm x 289 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 160 CFM (76 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 dpoinet cross-flow (Enthalpic Polymer Membrane)
Exchange surface 85 ft² (7.9 m²)
Dimensions 12"L x 12"W x 10"D (304.8 mm x 304.8 mm x 254 mm)
Construction Corrugated aluminum layers with advanced polymer membrane, Recognized UL94 HB

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

Filters Two Fiberbond washable 11-11/16"x9-3/4"x5/8" (297 mm x 248 mm x 16 mm)

Drain Connection ½" (12.7 mm)

Actual Weight 42 lbs (19 Kg)

Shipping Weight 47½ lbs (21.5 Kg)

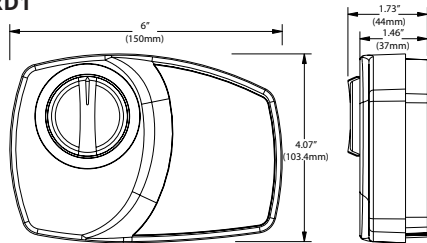
Optional Wall Controls

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

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

Wall Control Dimensions

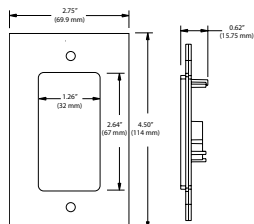
VHP-RD1



VHP-T3 Timer

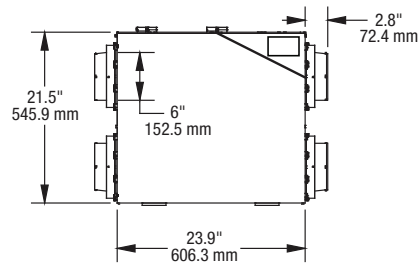
and

VHP-TC10 /
VHP-DC-15
Wall Controls

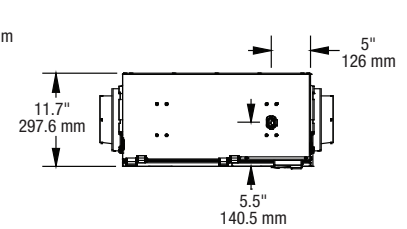


Dimensional Data

Front View

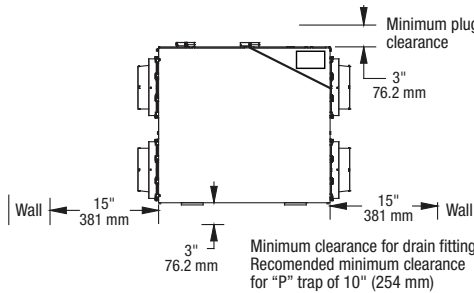


Top View

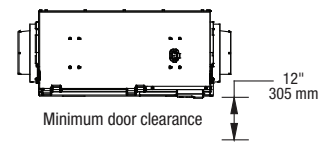


Minimum Clearance Data

Front View

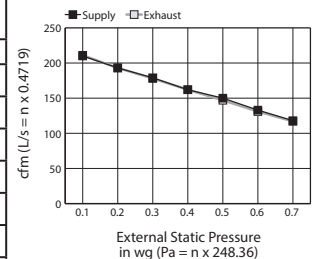


Top View



Ventilation Performance

External Static Pressure	Net Supply Airflow		Gross Airflow Supply		Gross Airflow Exhaust		
	Pa	in. wg	L/s	CFM	L/s	CFM	
25	0.1	97	207	99	210	99	211
50	0.2	89	189	91	193	91	193
75	0.3	88	187	84	179	84	178
100	0.4	75	159	76	162	76	162
125	0.5	70	148	71	150	69	147
150	0.6	62	131	63	133	62	131
175	0.7	55	116	55	118	55	117



Energy Performance

	Supply Temperature		Net Airflow		Power Consumed (Watts)	Sensible Recovery Efficiency	Latent Recovery Moisture Transfer	Adjusted Sensible Recovery Efficiency	Total Recovery Efficiency
	°C	°F	L/s	CFM					
Heating	0	32	24	51	58	65	0.32	73	
	0	32	38	80	76	65	0.29	71	
	0	32	56	118	96	62	0.26	67	
	-15	5	26	55	59	51	0.26	55	
Cooling	35	95	30	64	66	—	—	—	34

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