



VENMAR AVS 1.8 HE

PART NO. 45400

115 to 197 CFM (0.4 in. w.g.)



FOR HOMEOWNERS LOOKING FOR THE BEST PERFORMANCE, ADDED VALUE, QUALITY AND A LONGER WARRANTY

Recognized for its unsurpassed quality and superior craftsmanship, the High Efficiency Series reflects a new level of exceptional performance. It is guaranteed to satisfy the homeowner looking for durability, reliability and performance.

- Vertical design
- All ports on top
- HomeShield™ patented defrost system; no negative pressure
- SilentSure™ quiet operation
- Low voltage connector for optional controls

REPAIRS AND MAINTENANCE

All parts of the 1.8 HE HRV can be removed quickly, allowing direct access for easy repairs. The low power consumption PSC motors are permanently lubricated. Even better, the entire motor subassembly can be removed for easier maintenance. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The 1.8 HE HRV is fully protected by a 5-year warranty on parts, the best in the industry, and the heat recovery core is covered by a lifetime warranty for as long as the buyer owns the house in which the unit has been installed.

Available at:



HEAT RECOVERY VENTILATOR

Controls

- The following main controls are available:
 - Altitude programmable digital control with Smart mode no. 40440
 - Deco-Touch digital control no. 40395
- One or more of the following optional controls can also be added:
 - Dehumidistat no. 11297
 - 20/40/60-minute push button no. 03364
 - 60-minute mechanical timer no. 00910

Options

- Integrated furnace interlock relay
- Complete line of registers and diffusers
- Electric duct heater
- Installation parts are available from your wholesaler

No Negative Pressure Defrost

The 1.8 HE HRV uses a unique defrost method. No negative pressure is created by air exhausted to the outside, as the air is recirculated into the house, helping to prevent any backdraft.

Outdoor temperature		Defrost cycle Defrosting min./ Operating min.
°C	°F	
Warmer than -5	Warmer than 23	No defrost
-5 to -15	23 to 5	6/60
-15 to -27	5 to -19	6/32
-27 and less	-19 and less	6/20

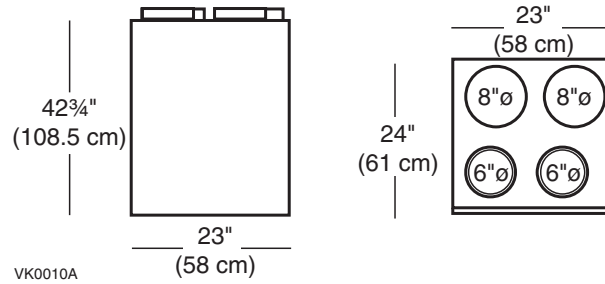
Heat Recovery Core

Dimensions: 15" x 28" x 14 3/8" (38 cm x 71 cm x 36.5 cm)
 Exchange surface: 184 ft² (17.1 m²)
 Weight: 32 lb. (14 kg)
 Type: Counterflow
 Material: Polypropylene, light and easy to clean
 Warranty: Limited lifetime

Requirements and standards

- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with the CSA C444 requirements regulating the installation of Heat Recovery Ventilators
- Technical data were obtained from published results of tests relating to CSA C439 Standards
- HVI certified

Dimensions: HRV 1.8 HE

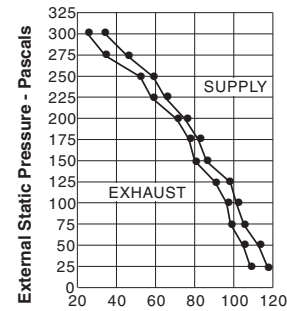


Ventilation Performance

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW			GROSS AIR FLOW					
PA	IN. W.G.	L/S	CFM	M ³ /H	SUPPLY			EXHAUST		
					L/S	CFM	M ³ /H	L/S	CFM	M ³ /H
25	0.1	109	231	392	116	246	418	107	227	386
50	0.2	107	227	386	114	242	411	103	218	370
75	0.3	99	209	355	105	222	377	97	206	350
100	0.4	93	197	335	99	210	357	93	197	335
125	0.5	89	189	321	95	201	341	88	186	316
150	0.6	81	171	291	86	182	309	81	172	292
175	0.7	75	159	270	80	169	287	76	161	274
200	0.8	68	143	243	72	153	260	69	145	246
225	0.9	62	131	223	66	140	238	58	123	209
250	1.0	55	116	197	58	123	209	50	106	180
275	1.1	43	92	156	46	97	165	35	74	126

Energy Performance

SUPPLY T		NET AIR FLOW			POWER CONSUMED	SENSIBLE RECOVERY	APPARENT SENSIBLE	LATENT RECOVERY/
°C	°F	L/S	CFM	M ³ /H	WATTS	EFFICIENCY	EFFECTIVENESS	MOISTURE TRANSFER
HEATING								
0	32	52	111	187	158	84	95	0.05
0	32	55	117	198	-	84	-	-
0	32	71	151	256	184	79	90	0.03
0	32	84	179	302	210	79	89	0.12
-25	-13	57	121	205	176	72	88	-0.04
COOLING								
					TOTAL RECOVERY EFFICIENCY			
35	95	55	117	198	160	13		
35	95	76	162	274	198	15		



NOTE: All specifications are subject to change without notice.

Specifications

- Model: Venmar AVS 1.8 HE
- Part Number: 45400
- Total Assembled Weight (including polypropylene core): 140 lb. (63.5 kg)
- Outgoing air duct connections:
 - Stale: 6" (15.25 cm)
 - Fresh: 8" (20 cm)
- Incoming air duct connections:
 - Stale: 8" (20 cm)
 - Fresh: 6" (15.25 cm)
- Drains: 1/2" (1.2 cm) fittings with 10' (3 m) PVC drain
- Filters: 20 ppi washable reticulated foam
- Housing: Pre-painted steel
- Insulation: 3/4" (1.9 cm) expanded polystyrene and 1/2" acoustic fiberglass wool
- Mounting:
 - Suspension by chains and springs
- Supply and Exhaust blower motor: 2 motors
 - Protection type: Thermally protected
 - Insulation class: B
- Fan speed control:
 - Low, increased low, high speed
 - Two speeds available to user
 - Low or increased low speed is selected at the time of installation
- Heat recovery core:
 - Heat exchange surface area: 184 ft² (17.1 m²)
 - Type: Counterflow
 - Material: Polypropylene
- Unit electrical characteristics: 120 V 60 Hz 250 W 2.5 A

Project:	REMARKS
Location:	
Part no.: 45400	
Qty.:	
Submitted by: _____ Date: _____	



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