

HEAT RECOVERY VENTILATORS

Models 1.3 HE and 1000 HE

Part #43405 vänEE Canada (1000 HE)
Part #43400 Venmar Canada and U.S. (1.3 HE)

65 to 130 cfm (0.4 in. w.g.)



VB0043

1.3 HE



VB0044

1000 HE

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
- R-2000 approved

REPAIRS AND MAINTENANCE

All parts of the High Efficiency HRVs can be removed quickly, allowing direct access for easy repairs. The low power consumption PSC motor is 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 High Efficiency HRV units are 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:

Controls

- Built-in electronic circuit board ready to receive one of the following main controls:

Venmar		vänEE	
-VENTA	#40310	-BASIC	#40210
-SUPRA	#40320	-ELECTRO	#40220
-ULTIMA	#40340		

- One or more of the following optional controls can be added:

- Humidity Control	#11297 (Venmar)	#200694 (vänEE)
- 60-min. mechanical timer	#00910 (Venmar and vänEE)	
- 20/40/60-minute push button	#03364 (Venmar)	#03701 (vänEE)
- Wireless 20-minute remote control	#03366 (Venmar)	

Options

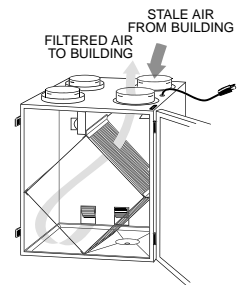
- Integrated furnace interlock relay.
- Complete line of registers and diffusers.
- Electric duct heater.
- Installation parts available from your wholesaler.

No Negative Pressure Defrost

The HRV High Efficiency units use a unique defrost method. No negative pressure is created by air exhausted to the outside, as the air is recirculated into the house, thus avoiding any return from the chimney. Moreover, this defrost method by air circulation ensures that no shortage of air is created for the combustion units.

AIR FLOW DURING DEFROST (and in circulation)

OUTSIDE 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 & LESS	(-19 & LESS)	6/20



VF0005
1.3 HE and 1000 HE

Heat Recovery Core

Dimensions: 13" x 13" x 13" (33 cm x 33 cm x 33 cm)

Exchange surface: 144 ft² (13.3 m²)

Weight: 8.8 lb (4 kg)

Type: Crossflow

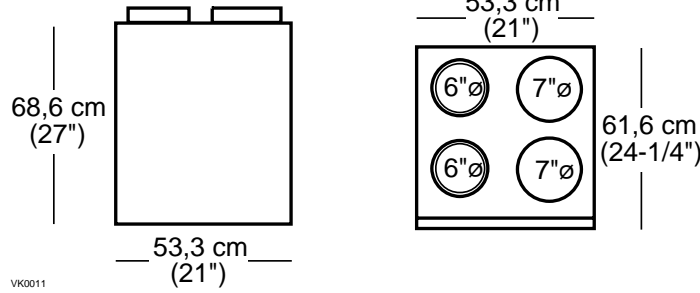
Material: Polypropylene (coroplast) light and easy to clean

Warranty: Limited lifetime

Requirements and Standards

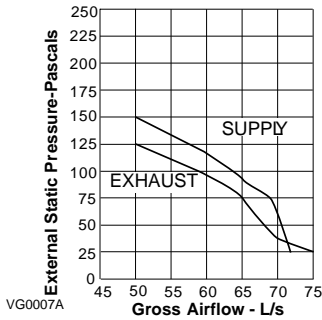
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators (for US only).
- Complies with the CSA C22.2 # 113 Standard applicable to ventilators.
- Complies with the CSA C444 requirements regulating the installation of Heat Recovery Ventilators.
- Technical data was obtained from published results of tests relating to CSA C439 Standards.
- HVI certified.

Dimensions and Service Clearances: HRV 1.3 HE and 1000 HE



Ventilation Performance

EXT STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW			
				SUPPLY		EXHAUST	
Pa	in. w.g.	l/s	cfm	l/s	cfm	l/s	cfm
25	.1	72	152	73	155	75	159
50	.2	69	145	70	148	69	146
75	.3	67	141	68	144	66	140
100	.4	63	133	64	136	60	127
125	.5	58	123	59	125	50	106
150	.6	49	104	50	106	3	6



Energy Performance

SUPPLY TEMPERATURE		NET AIR FLOW	POWER CONSUMED	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY / MOISTURE TRANSFERT		
C°	F°						l/s	pcm
HEATING								
0	+32	30	64	109	103	81	92	0.02
0	+32	46	99	168	115	76	85	0.03
0	+32	54	106	180	117	72	80	0.02
-25	-13	30	64	109	110	69	89	0.11
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COOLING							TOTAL RECOVERY EFFICIENCY	
+35	+95	34	72	122	105	23		
+35	+95	50	106	180	109	26		

Specifications and Ratings

- Models: Venmar 1.3 HE and vänEE 1000 HE
- Part Numbers: #43405 Canada only, #43400 U.S. and Canada
- Total Assembled Weight (including polypropylene core): 80 lbs (36.3 kg)
- Outgoing Air Duct Connections: -stale: 6" (15.25 cm) -fresh: 7" (17.8 cm)
- Incoming Air Duct Connections: -stale: 7" (17.8 cm) -fresh: 6" (15.25 cm)
- Drains: 1/2" (1.2 cm) fittings with 10ft (3 m) PVC drain
- Filters: aluminum
- Cabinet: 20 ga. pre-painted steel
- Insulation: 1" (2.54 cm) expanded polystyrene
- Mounting:
 - suspension by chains and springs
 - 40 ft (12.2 m) wire for wall control
- Supply & Exhaust Blower Motor: 1 motor
 - Protection type: Thermally protected
 - Insulation class: B
 - V (motor marking): 120 Vac, 50/60 Hz, 1.2/1.0 A, 1050/1300/1660 RPM
- 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: 144 ft² (13.3 m²)
 - Type / Material: Crossflow / Polypropylene
- Unit Electrical Characteristics:
 - Voltage: 120 volts
 - Power: 115 watts
 - Current: 1.2 amperes
 - Hz: 60 Hz

NOTE: All specifications are subjected to change without notice.

Submitted by:		Date:	Project:
Qty:	Model #:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:



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