



VENMAR AVS ERV CONSTRUCTO 1.5 QUATTRO

Part #43115

60 to 156 CFM (0.3 in. w.g.)
60 to 148 CFM (0.4 in. w.g.)



VB0098

THE NEW ERV CONSTRUCTO QUATTRO SERIES: ENERGY RECOVERY NOW MORE AFFORDABLE.

Cost being a top of mind consideration for homebuilders, Venmar AVS has conceived an ERV that will provide value to the construction at a more affordable price. The Venmar AVS ERV Constructo 1.5 Quattro Series is an improved platform that offers key features for the new construction market, such as pressure taps, integrated balancing dampers and a no negative pressure defrost that ensures quick installation and trouble-free operation. Designed for builders and contractors requiring simple, reliable, affordable yet efficient all-year-round ventilation solutions.

- Unique pan design, easy to clean and maintain
- Integrated balancing dampers and pressure taps
- No drain
- Polymerized paper crossflow core: recovers heat and humidity
- Exclusive Homeshield™ patented defrost system
- SilentSure™ operation
- PSC motor

REPAIRS AND MAINTENANCE

Venmar AVS ERV Constructo Quattro modular design makes it possible to remove all mechanical parts in less than 5 minutes. The low power consumption PSC motor is permanently lubricated. Even better, the entire motor subassembly can be removed in less than a minute for easier maintenance. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The Venmar AVS ERV Constructo 1.5 Quattro is protected by a 2-year warranty on parts only. The energy recovery core is covered by a 5-year warranty.

Available at:

ENERGY RECOVERY VENTILATOR

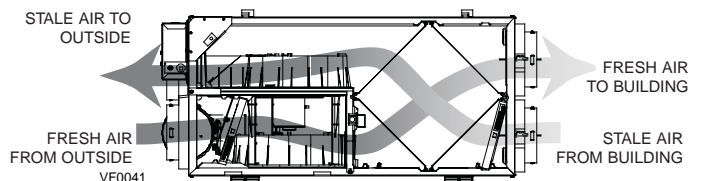
Control

- Built-in electronic circuit board ready to receive the Lite-Touch Constructo main control.
- One or more of the following optional controls can be added:
 - 60-min. mechanical timer no. 00910
 - 20-min. lighted push button no. 12030

Options

- Complete line of registers and diffusers.
- Electric duct heater.

Airflow During Air Exchange



Homeshield™ Defrosting System

The AVS ERV CONSTRUCTO QUATTRO uses a unique defrosting method. No negative pressure is created by air exhausted to the outside, as the air is recirculated into the house, thus avoiding any backdraft from the chimney. Moreover, this defrosting method by air circulation ensures that no shortage of air is created for combustion units.

OUTSIDE TEMPERATURE °C	DEFROST CYCLE	
	TEMPERATURE °C	TEMPERATURE (°F) operating min.
Warmer than -5	Warmer than (23)	No defrost
-5 to -15	(23 to 5)	10/60
-15 to -27	(5 to -17)	10/30
-27 & less	(-17 & less)	10/20

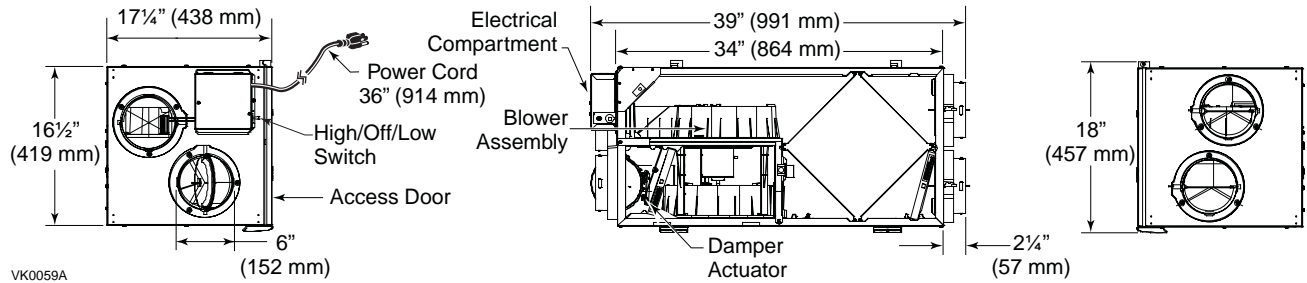
Energy Recovery Core

Dimensions: 15.4" x 10.6" x 10.6" (39.1 cm x 26.9 cm x 26.9 cm)
Exchange surface: 107 ft² (9.94 m²)
Weight: 14.2 lb (6.44 kg)
Material: Polymerized paper
Type: Crossflow core

Requirements and Standards

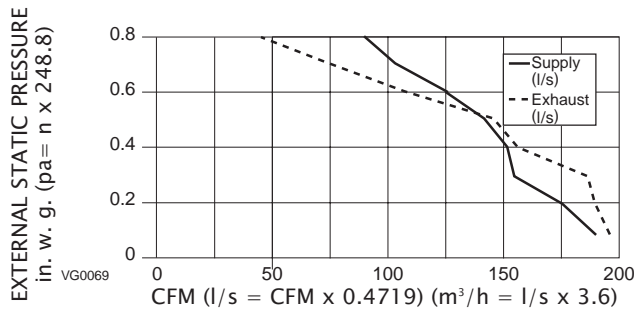
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 #113 Standard applicable to ventilators
- Complies with CSA F326 requirements regulating the installation of Energy Recovery Ventilators
- HVI certified
- Technical data was obtained from published results of tests relating to CSA C439 Standards

Dimensions and Service Clearances: Venmar AVS ERV CONSTRUCTO 1.5 QUATTRO



Ventilation Performance

EXT. STATIC PRESSURE	NET SUPPLY AIR FLOW			GROSS AIR FLOW						
	Pa	in.wg.	l/s	cfm	m ³ /h	SUPPLY			EXHAUST	
25	.1	84	179	304	85	181	308	92	196	333
50	.2	82	173	294	83	175	298	88	187	318
75	.3	74	156	265	75	158	269	85	181	308
100	.4	70	148	252	71	151	257	77	163	277
125	.5	64	135	230	65	137	233	67	143	243
150	.6	58	124	211	59	125	213	54	114	194
175	.7	50	105	179	50	106	180	33	71	121
200	.8	41	87	148	42	88	150	20	43	73



Energy Performance

SUPPLY TEMPERATURE		NET AIR FLOW			POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY / MOISTURE TRANSFER
C	F	l/s	cfm	m ³ /h				
HEATING								
0	+32	30	64	109	66	61	75	62
0	+32	46	97	165	77	60	71	58
0	+32	66	141	239	137	57	69	52
-25	-13	22	47	80	92	49	80	56
-25	-13	--	--	--	--	--	--	--
						TOTAL RECOVERY EFFICIENCY		
+35	+95	31	65	110	63	56		
+35	+95	--	--	--	--			

NOTE: All specifications are subject to change without notice.

Specifications and Ratings

- Model: Venmar AVS ERV CONSTRUCTO 1.5 QUATTRO
- Part Number: No. 43115
- Total Assembled Weight: (Including polymerized paper core) 74 lb (34 kg)
- Supply and Exhaust Air Duct Connections: 6" (15.24 cm) diameter
- Filters: -15 ppi washable reticulated foam
-15.375" x 7.125" x 0.75"
(39 x 18 x 1.9 cm)
- Cabinet: 20 ga. pre-painted steel
- Insulation: 1" (2.54 cm) aluminum foil faced fiberglass 0.825" (2.10 cm) expanded polystyrene
- Mounting: suspension by chains and springs
- Supply & Exhaust Blower Motor: 1 motor
 - Protection type: Thermally protected
 - Insulation class: B
 - V (motor marking): 120 V ac, 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
- Energy Recovery Core:
 - Exchange Surface Area: 107 ft² (9.94 m²)
 - Type: Crossflow
 - Material: Polymerized paper
- Unit Electrical Characteristics:

Volts	Freq.	Amps	Watts
120	60 Hz	1.3	115

Submitted by:		Date:	Project:
Qty.:	Model no.:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:

