



## VENMAR AVS ERV CONSTRUCTO 2.0 QUATTRO

Part #45115

80 to 198 CFM (0.3 in. w.g.)  
80 to 183 CFM (0.4 in. w.g.)



VB0099

### 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 2.0 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 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

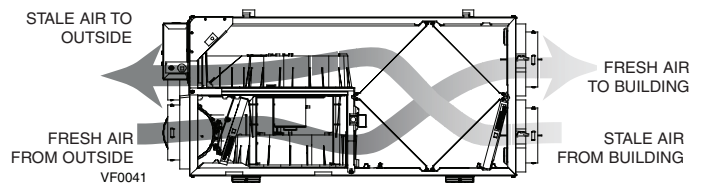
## Control

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

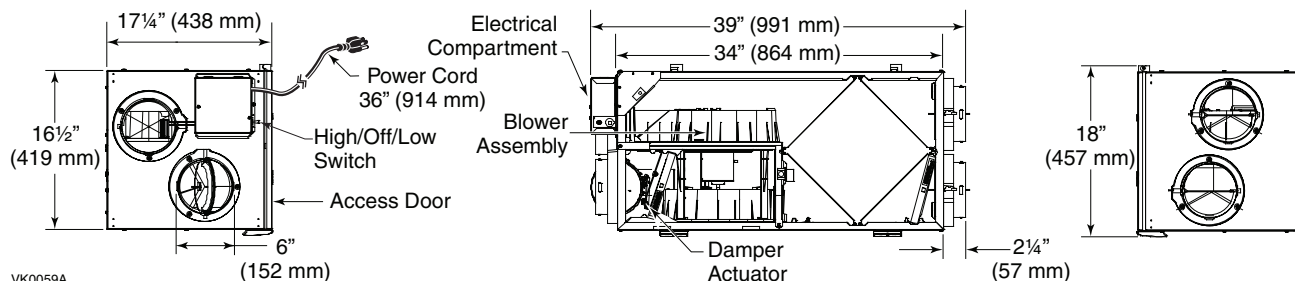
## Energy Recovery Core

Dimensions: 15.4" x 10.6" x 10.6" (39.1 cm x 26.9 cm x 26.9 cm)  
Exchange surface: 107 ft<sup>2</sup> (9.94 m<sup>2</sup>)  
Weight: 14.2 lb (6.44 kg)  
Material: Polymerized paper  
Type: Crossflow core

## Requirements and Standards

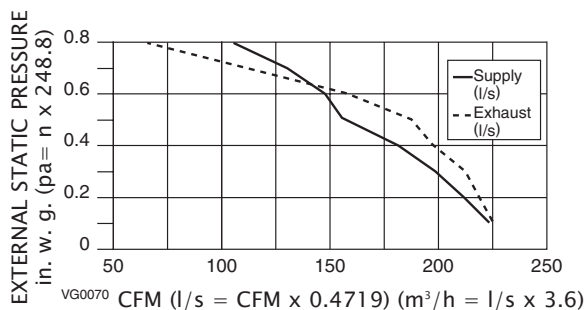
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 #113 Standard applicable to ventilators
- Complies with CSA F326 requirements regulating the installation of Energy Recovery Ventilators
- HVI certified
- Technical data was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

# Dimensions and Service Clearances: Venmar AVS ERV CONSTRUCTO 2.0 QUATTRO



## Ventilation Performance

EXT. STATIC PRESSURE	NET SUPPLY AIR FLOW			GROSS AIR FLOW SUPPLY			EXHAUST			
	Pa	in.wg.	l/s	cfm	m <sup>3</sup> /h	l/s	cfm	m <sup>3</sup> /h	l/s	cfm
25	.1	105	222	377	106	225	382	106	225	383
50	.2	99	209	355	100	212	360	104	220	374
75	.3	93	198	336	94	200	340	100	212	360
100	.4	86	183	311	88	186	316	93	198	337
125	.5	76	162	275	78	165	280	87	185	315
150	.6	70	148	251	71	150	255	75	158	269
175	.7	60	128	217	61	130	221	56	119	202
200	.8	50	107	182	51	108	183	29	61	104



## 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 <sup>3</sup> /h				
<b>HEATING</b>								
0	+32	38	80	137	84	60	72	60
0	+32	--	--	--	--	--	--	--
0	+32	54	114	194	113	58	69	53
0	+32	79	167	284	169	56	66	45
-25	-13	31	65	110	116	41	86	47
<b>COOLING</b>								
+35	+95	39	82	139	81	TOTAL RECOVERY EFFICIENCY 52		

NOTE: All specifications are subject to change without notice.

## Specifications and Ratings

- Model: Venmar AVS ERV CONSTRUCTO 2.0 QUATTRO
- Part Number: No. 45115
- Total Assembled Weight: (Including polymerized paper core) 76 lb (35 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 ft<sup>2</sup> (9.94 m<sup>2</sup>)
  - Type: Crossflow
  - Material: Polymerized paper
- Unit Electrical Characteristics:
 

Volts	Freq.	Amps	Watts
120	60 Hz	2.1	240

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



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