



Venmar AVS HRV EKO 1.5

Part no. 43901

80 to 157 CFM (0.4 in. w.g.) 53 to 106 CFM (0.4 in. w.g.)
 66 to 132 CFM (0.4 in. w.g.) 40 to 80 CFM (0.4 in. w.g.)



VB0122

DISCOVER THE NEW GENERATION OF VENMAR AIR EXCHANGERS: ULTRA-EFFICIENT AND ENVIRONMENTALLY-FRIENDLY

The AVS HRV EKO 1.5 has been designed to be one of the most eco-friendly HRV air exchangers on the market. Its innovative design incorporates extremely high performance ECM* motors, which enable EKO to significantly lower energy costs without affecting its performance. Additional energy efficiency is found through its advanced heat recovery core, which can retain up to 80% of home's heating. EKO surpasses energy-saving standards while providing effective heat recovery, ventilation and quiet operation. All aspects have been designed to facilitate balancing of air flow and simplify uses and installation.

- High performance ECM* motors
- Faster and easier installation of insulated flexible ducts with practical straps
- Integrated balancing dampers
- Integrated electronic board on motors
- Homeshield™ defrosting system
- Heat recovery core with superior capacity
- Optimized drainage system
- ENERGY STAR® qualified

REPAIRS AND MAINTENANCE

The AVS HRV EKO 1.5 high output ECM* motors are permanently lubricated. The electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The AVS HRV EKO 1.5 unit is protected by a complete 5-year warranty on all parts. The heat recovery core is covered by a limited lifetime warranty, with the original proof of purchase.

*Electronically Commutated Motor.

Available at:

HEAT RECOVERY VENTILATOR

Controls

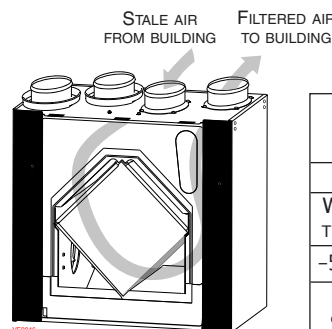
- This unit is very simple to operate. Once it is installed, press on its push button, located under the unit, to activate it. Press once for low speed, once again for high speed, and once more to stop it
- The following main controls are available:
 - Altitude programmable digital control with Smart mode no. 40440
 - Deco-Touch digital control no. 40395
- Also, one to 5 of the following optional controls can be added:
 - 20/40/60-min. Push-Button Timer no. 03364
 - 60-min. Mechanical Timer no. 00910

Options

- Complete line of registers and diffusers
- Electric duct heater

Homeshield™ Defrosting System

The AVS HRV EKO 1.5 uses a unique defrosting 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.



Heat Recovery Core

Dimensions: 10" x 10" x 14.25" (25.4 cm x 25.4 cm x 36.2 cm)

Exchange surface: 110 ft² (10.2 m²)

Weight: 7.36 lb (3.3 kg)

Material: Polypropylene

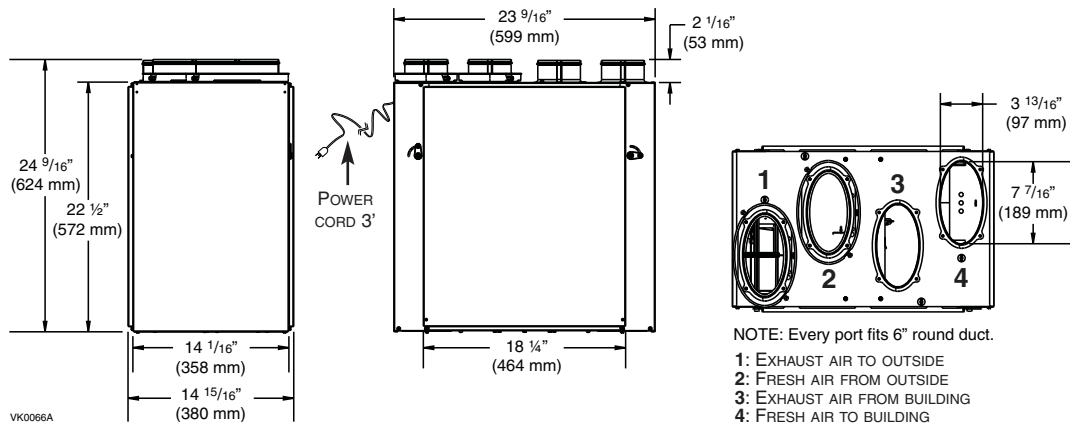
Type: Cross Flow

Warranty: Limited lifetime

Requirements and Standards

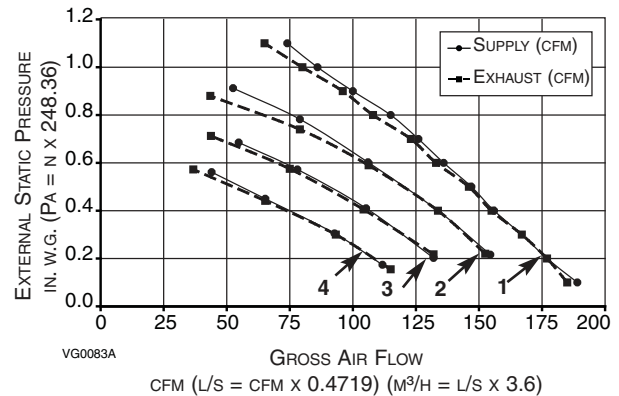
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA C444 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from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

Dimensions and Service Clearances: Venmar AVS HRV EKO 1.5



Ventilation Performance

EXT. 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	89	189	320	89	190	320	87	185	313
50	0.2	83	177	299	84	179	302	83	177	299
75	0.3	79	167	284	79	169	284	79	167	284
100	0.4	74	156	266	74	158	266	73	155	263
125	0.5	69	147	248	69	148	248	68	146	245
150	0.6	64	136	230	64	137	230	63	133	227
175	0.7	59	126	212	60	127	216	58	123	209
200	0.8	54	115	194	54	116	194	51	108	184
225	0.9	47	110	169	47	101	169	45	96	162
250	1.0	40	86	144	41	87	148	38	80	137
275	1.1	35	74	126	35	75	126	31	65	112



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				
HEATING							
0	32	23	49	24	75	83	0.01
0	32	30	64	26	74	80	0.01
0	32	38	81	32	73	78	0.01
0	32	57	122	54	67	72	0.01
-25	-13	29	61	40	64	89	0.02

- SPEED RANGE* 1: 80 TO 157 CFM
- SPEED RANGE* 2: 66 TO 132 CFM
- SPEED RANGE* 3: 53 TO 106 CFM
- SPEED RANGE* 4: 40 TO 80 CFM

*At 0.4 IN. W.G.

NOTE: All specifications are subject to change without notice.

Specifications and Ratings

- Model: AVS HRV EKO 1.5
- Part number: 43901
- Total assembled weight (including polypropylene core): 52.4 lb (23.8 kg)
- Oval shaped ports; fit 6" round ducts
- Drains: 1/2" (1.2 cm) fittings with 10 ft (3 m) PVC drain
- Core filters: 2 washable Merv 9 9.2" x 14.25" x 3.8" (23.4 cm x 36.2 cm x 9.6 cm)
- Housing: Pre-painted steel
- Insulation: Expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply & Exhaust blower motors: 2 ECM motors
 - Protection type: Thermally protected
 - Insulation class: B
- Speed control on unit:
 - Low and high speed.
 - Other modes available with Altitude or Deco-Touch main control.
- Heat recovery core:
 - Heat exchange surface area: 110 ft² (10.2 m²)
 - Type: Cross flow
 - Material: Polypropylene
- Unit electrical characteristics:

Volts	Frequency	Amperes	Watts
120	60 Hz	1.3	98

PROJECT:	REMARKS
LOCATION:	
MODEL NO.:	
QTY.:	
SUBMITTED BY: DATE:	



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12/03

PRODUCT SHEET NO. 91414