



**Venmar E15 ECM HRV**

**Part no. 43901**

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

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



VB0210

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

The E15 ECM HRV 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 the E15 ECM HRV to significantly lower energy costs without affecting its performance. Additional energy efficiency is achieved through its advanced heat recovery core, which can retain up to 80% of the home's heating. The E15 ECM HRV 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 E15 ECM HRV high output ECM\* motors are permanently lubricated. The electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

**WARRANTY**

The E15 ECM HRV 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 the unit 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 also available:
  - Altitude programmable digital control with SMART mode no. 40440
  - Deco-Touch digital control no. 40395
- Also, the following auxiliary wall controls can be added:
  - 20/40/ 60-min. push button no. 03364
  - 60-min. Mechanical timer no. 00910
  - Dehumidistat no. 11297

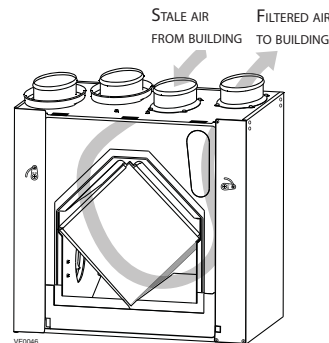
For more details about controls, refer to their specification sheet on [www.venmar.ca](http://www.venmar.ca).

**Options**

- Complete line of registers and diffusers
- Electric duct heater

**Homeshield™ Defrosting System**

The E15 ECM HRV 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.



OUTSIDE TEMPERATURE		DEFROST CYCLE MIN./ OPERATING MIN.
°C	°F	
WARMER THAN -5	WARMER THAN 23	NO DEFROST
-5 TO -15	23 TO 5	7/25
-15 TO -27	5 TO -17	7/25
-27 AND LESS	-17 AND LESS	10/22

**Heat Recovery Core**

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

Exchange surface: 110 ft.<sup>2</sup> (10.2 m<sup>2</sup>)

Weight: 7.36 lb. (3.3 kg)

Material: Polypropylene

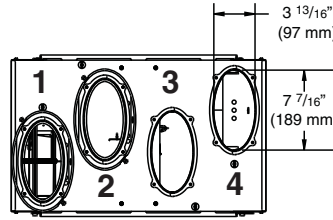
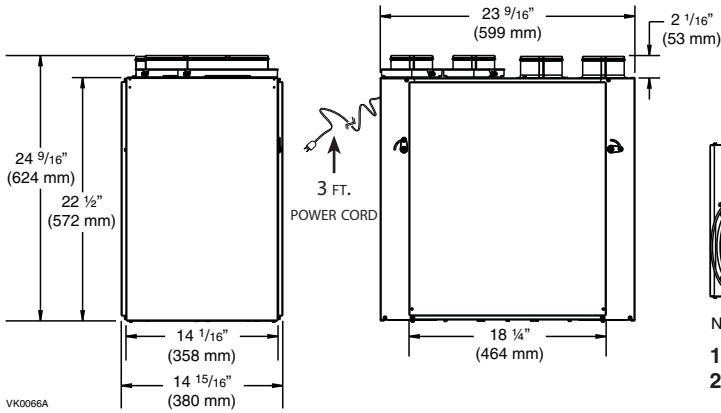
Type: Cross Flow

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: E15 ECM HRV



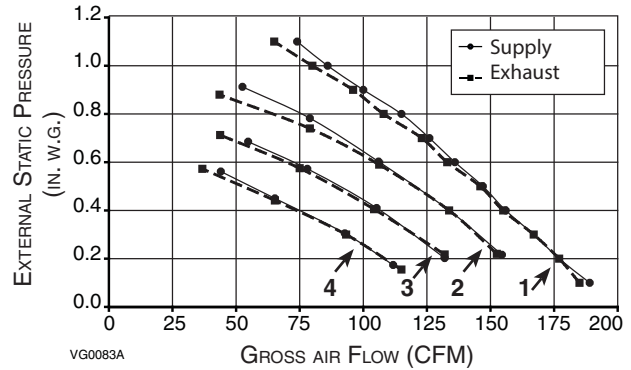
NOTE: ALL UNITS PORTS WERE CREATED TO BE CONNECTED TO DUCTS HAVING A MINIMUM OF 6" DIAMETER, BUT IF NEEDED, THEY CAN BE CONNECTED TO BIGGER SIZED DUCTS BY USING AN APPROPRIATE TRANSITION (E.G.: 6" DIAMETER TO 7" DIAMETER TRANSITION).

NOTE: Every port fits 6" round duct.

- 1: EXHAUST AIR TO OUTSIDE PORT
- 2: FRESH AIR FROM OUTSIDE PORT
- 3: EXHAUST AIR FROM BUILDING PORT
- 4: FRESH AIR TO BUILDING PORT

## VENTILATION PERFORMANCE

EXTERNAL STATIC PRESSURE	NET SUPPLY AIR FLOW		GROSS AIR FLOW								
			SUPPLY			EXHAUST					
PA	IN. W.G.	L/S	CFM	M <sup>3</sup> /H	L/S	CFM	M <sup>3</sup> /H	L/S	CFM	M <sup>3</sup> /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	M <sup>3</sup> /H				
HEATING								
0	32	23	49	83	24	75	83	0.01
0	32	30	64	109	26	74	80	0.01
0	32	38	81	138	32	73	78	0.01
0	32	57	122	207	54	67	72	0.01
-25	-13	29	61	104	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

- Model: E15 ECM HRV
- 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 filters, 9.2" x 14.25" x 0.38" (23.4 cm x 36.2 cm x 1 cm)
- Insulation: Expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply and Exhaust Blower Motors: 2 ECM motors
  - Protection type: Thermally protected
  - Insulation class: B
- Speed Control on Unit:
  - Low speed and high speed
  - Other modes available with Altitude or Deco-Touch main control
- Heat Recovery Core:
  - Heat Exchange Surface Area: 110 ft.<sup>2</sup> (10.2 m<sup>2</sup>)
  - Type: Crossflow
  - Material: Polypropylene
- Housing: Pre-painted steel
- Unit Electrical Characteristics:
 

Volts	Frequency	Ampere	Watts
120	60 Hz	1.3	98

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



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