



## HRV CONSTRUCTO 1.5ES

Part no. 46110 CANADA

Part no. 1601702 U.S.A.

66 to 150 CFM (0.4 in. w.g.)



VB0166

### CONSTRUCTO® SERIES: PERFECT FOR NEW RESIDENTIAL CONSTRUCTION

Contractors and builders need cost-effective, reliable and code-compliant mechanical ventilation systems for new home construction. The Venmar AVS Constructo Series offers superior value at an entry-level price. The Constructo 1.5ES represents over 15 years of continuous improvement to deliver contractors the durability and reliability they have come to expect from Venmar.

Key features:

- Maintenance free, totally enclosed, sealed bearings motor
- Pressure taps, balancing dampers and straps for insulated ducts for quick, effective installation
- Integrated “snap-in” drain system installs in seconds with no additional parts
- ENERGY STAR® qualified
- Compatible with the Deco-Touch™ digital wall control

### REPAIRS AND MAINTENANCE

All parts of the HRV Constructo 1.5ES that could need maintenance can be removed in less than 5 minutes, allowing direct access for easy repairs. The motor is permanently lubricated.

### WARRANTY

The HRV Constructo 1.5ES is protected by a 5-year warranty on parts. The heat recovery core is covered by a limited lifetime warranty, with the original proof of purchase.

Available at:

## HEAT RECOVERY VENTILATOR

### Controls

- This unit is very simple to operate: press on its push button, located on the electrical compartment, 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:

- Deco-Touch digital control\* no. 40395
- Lite-Touch Constructo no. 40370
- Constructo no. 40350

\* Recirculation mode not available.

- Up to 5 of the following optional auxiliary controls can also be added:

- Dehumidistat no. 11297
- 20-min. lighted push-button no. 12030

For more details about controls, refer to their specification sheet on venmar.ca.

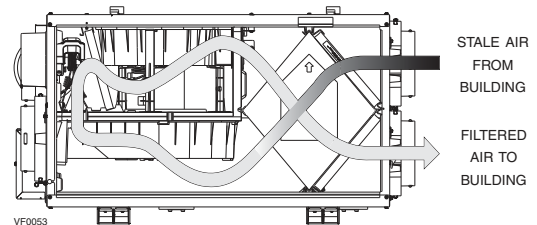
### Option

- Complete line of registers and diffusers

### Defrosting System

The HRV Constructo 1.5ES uses an efficient 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
°C	°F	DEFROSTING MIN./OPERATING MIN.
WARMER THAN -5	WARMER THAN 23	NO DEFROST
-5 TO -15	23 TO 5	7/50
-15 TO -27	5 TO -17	7/25
-27 & LESS	-17 & LESS	10/20



### Heat Recovery Core

Dimensions: 12" x 14" x 15.5" (30.5 cm x 35.5 cm x 39.4 cm)

Exchange surface: 102 ft<sup>2</sup> (9.54 m<sup>2</sup>)

Weight: 6.2 lb (2.8 kg)

Material: Polypropylene

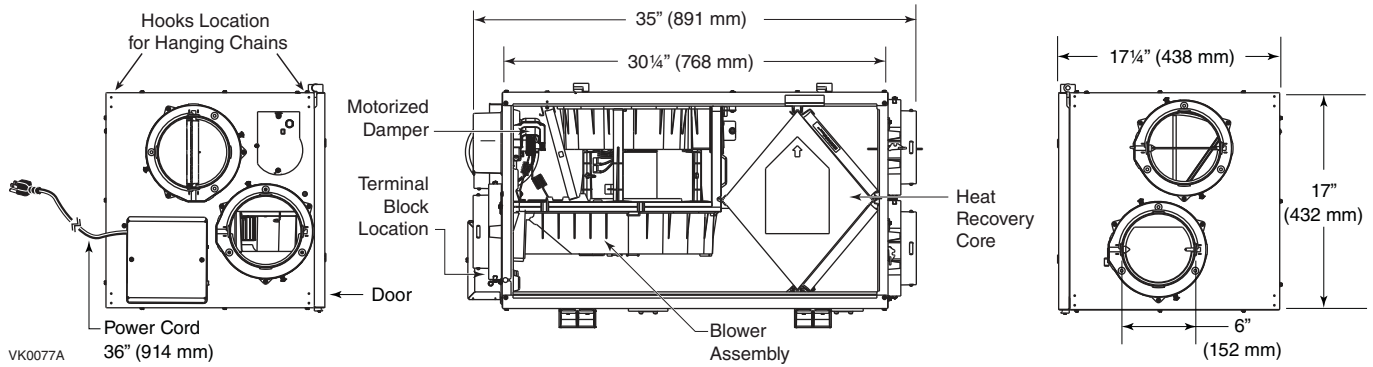
Type: Crossflow core

Warranty: Limited Lifetime

### Requirements and Standards

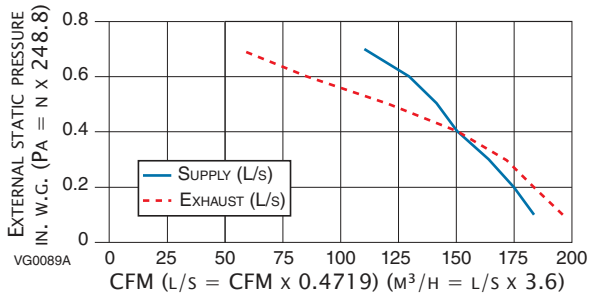
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of tests relating to CSA C439 Standards
- HVI certified and ENERGY STAR® qualified

# Dimensions: HRV Constructo 1.5ES



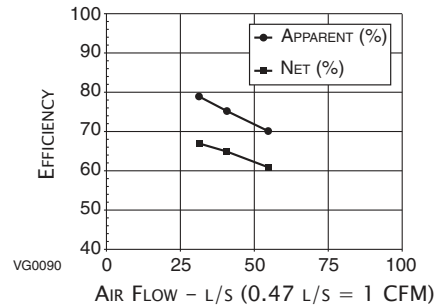
## Ventilation Performance

EXT. STATIC PRESSURE	NET SUPPLY AIR FLOW			GROSS AIR FLOW							
	PA	IN. W.G.	L/S	CFM	M <sup>3</sup> /H	SUPPLY			EXHAUST		
						L/S	CFM	M <sup>3</sup> /H	L/S	CFM	M <sup>3</sup> /H
25	0.1	85	180	306	86	182	309	92	194	330	
50	0.2	82	174	296	82	175	297	86	182	309	
75	0.3	77	163	277	77	164	279	81	171	291	
100	0.4	71	150	255	71	151	257	71	151	257	
125	0.5	67	141	240	67	142	241	57	120	204	
150	0.6	60	128	217	61	130	221	40	85	144	
175	0.7	51	108	183	52	110	187	27	57	97	



## Energy Performance

SUPPLY TEMPERATURE	NET AIR FLOW	POWER CONSUMED	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY MOISTURE TRANSFER			
						°C	°F	L/S
HEATING								
0	32	31	66	112	67	67	79	-0.01
0	32	40	86	146	74	65	75	-0.01
0	32	54	115	195	90	61	70	-0.01
-25	-13	38	81	138	87	60	76	0.02



NOTE: All specifications are subject to change without notice.

## Specifications and Ratings

- Model: HRV Constructo 1.5ES
- Part Number Canada: 46110
- Part Number U.S.A.: 1601702
- Total Assembled Weight (including polypropylene core): 65 lb (29.5 kg)
- Drains: 1/2" (1.2 cm) fittings with 10 ft (3 m) PVC drain
- Filters: 15 ppi washable reticulated foam 15.375" x 7.125" x 0.75" (39 cm x 18 cm x 1.9 cm)
- 6" Round Ports
- Housing: Pre-painted steel
- Insulation: Expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply & Exhaust Blower Motor: 1 PSC motor
  - Protection type: Thermally protected
  - Insulation class: B
- Speed Control on unit: Low & High speed. Other modes available with optional main wall controls.
- Heat Recovery Core:
  - Heat Exchange Surface Area: 102 ft<sup>2</sup> (9.54 m<sup>2</sup>)
  - Type/Material: Crossflow/Polypropylene
- Unit Electrical Characteristics:
 

Volts	Frequency	Amps	Watts
120	60 Hz	1.5	160

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



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