



## HRV SOLO 1.5ES

Part no. 46720 CANADA

Part no. 46725 U.S.A.

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



VB0164

### SOLO®: THE ONE HRV YOU NEED FOR OPTIMAL INDOOR AIR QUALITY

Homeowners who want the best in heat-recovery ventilation choose the Solo 1.5ES for its power, reliability and very quiet operation. When used along with the Altitude IAQ wall control with SMART mode (automated ventilation based on indoor relative humidity and outdoor temperature), the Solo 1.5ES allows you to optimize your ventilation and your energy consumption. The Solo 1.5ES represents over 15 years of continuous improvement to deliver contractors the durability and reliability they have come to expect from Venmar.

- Maintenance free, totally enclosed, sealed bearings motor; prevents dust from entering
- 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
- Reversible for greater installation flexibility
- Recirculation mode, available with Altitude or Deco-touch main control, to move air in homes without forced-air heating
- Very quiet operation
- ENERGY STAR® qualified
- Approved for the Novoclimat®\* program for new homes when used with Altitude or Deco-touch main wall control

\*Novoclimat® is a program of the Agence de l'efficacité énergétique du Québec.

### REPAIRS AND MAINTENANCE

All parts of the HRV SOLO 1.5ES can be removed in less than five minutes, allowing direct access for easy repairs. The low power consumption motor is permanently lubricated. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

### WARRANTY

The HRV Solo 1.5ES is protected by a 5-year warranty on parts. The heat recovery core is covered by a 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 also available:
  - Altitude programmable digital control with SMART mode no. 40440
  - Deco-Touch digital control no. 40395
  - Lite-Touch Constructo no. 40370
  - Simple-Touch Constructo no. 40390
  - Constructo no. 40350
- Up to 5 of the following optional auxiliary controls can also be added:
  - Dehumidistat no. 11297
  - 20/40/60 min. lighted push-button no. 03364

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

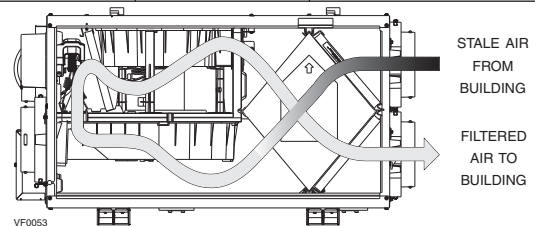
### Option

- Complete line of registers and diffusers

### Defrosting System

The HRV Solo 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

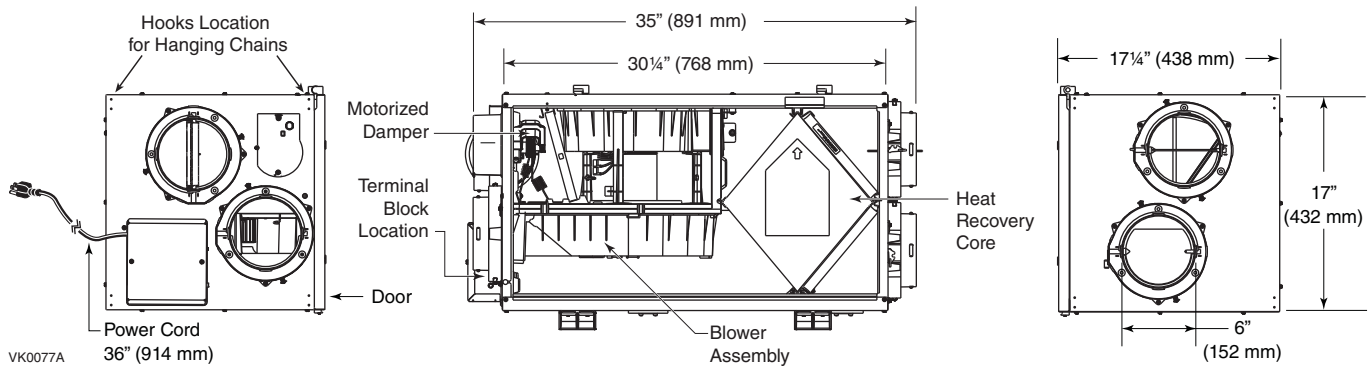
Type: Crossflow core

Warranty: Limited Lifetime

### Requirements and Standards

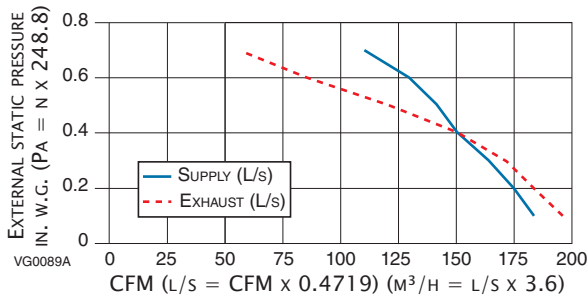
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA C444 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from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

# Dimensions: HRV Solo 1.5ES



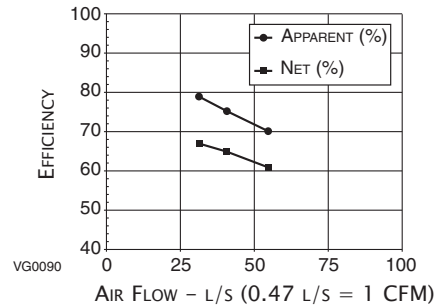
## Ventilation Performance

EXT. 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	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 WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY MOISTURE TRANSFER	
	°C	°F	M <sup>3</sup> /H					
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 Solo 1.5ES
- Part Number Canada: 46720
- Part Number U.S.A.: 46725
- Total Assembled Weight (including polypropylene core): 65 lb (29.5 kg)
- 6" Round Ports
- 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)
- 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: