

HEAT RECOVERY VENTILATOR

VENMAR CONSTRUCTO 2.0

Part # 45110 Canada

Part # 1601612 U.S.

Part # 45119 International

128 to 208 CFM (0.3 in. w.g.)

117 to 189 CFM (0.4 in. w.g.)



VB0010

CONSTRUCTO SERIES: PERFECT FOR NEW RESIDENTIAL CONSTRUCTION

Affordability is a priority for the homebuilder who wants to offer a healthy environment. The Constructo Series is an entry level product that offers all the basic features for the new construction market, such as a small sized cabinet, integrated balancing damper and a no negative pressure defrost that ensures quick installation and trouble free operation. Best price for builders & contractors requiring simple, affordable and reliable products.

- **Warranty:** 2 years on all unit parts and a lifetime warranty on the heat recovery core.
- **A minimum of vital parts per unit:** Motor, damper motor and electronic circuit board.
- **Microprocessors:** A proven technology known for its reliability which allows elimination of numerous mechanical parts which are most likely to break down.

Quiet ventilation is a priority for homeowners and builders. The Constructo HRV Series produces 10 db less than any unit in its category, and therefore provides the quietest operation.

- **The SilentSure™ operation system,** a unique design which allows the motor, located at the exhaust ports, to blow air into the house through an integrated silencer in the unit.
- **The motor attachment,** located in the center of the unit prevents any vibration.

Available at :

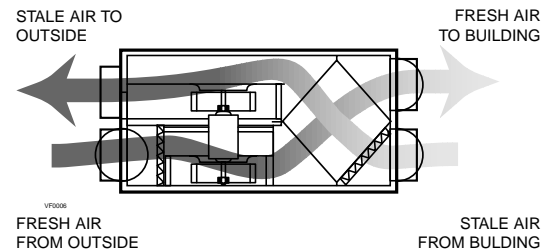
Controls

- Built-in electronic circuit board ready to receive one of the following main controls:
 - Humidity Control #11297
 - Constructo #40350
- One or two of the following optional controls can be added:
 - 20-min. lighted push button #12030
 - 60-min. mechanical timer #00910

Options

- Integrated furnace interlock relay
- Complete line of registers and diffusers
- Electric duct heater
- Installation parts available from your wholesaler

Airflow During Air Exchange



Homesield™ Defrosting System

The Constructo 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 TEMPERATURE °C	DEFROST CYCLE defrosting min. / operating min.
-5 TO -27	6/32
-27 & LESS	6/20

Heat Recovery Core

Dimensions: 12" x 14" x 15-1/2" (30,5 cm x 35,5 x 39,4 cm)

Exchange surface: 102 ft² (9,5 m²)

Weight: 6.2 lbs (2,8 kg)

Material: Polypropylene (coroplast)

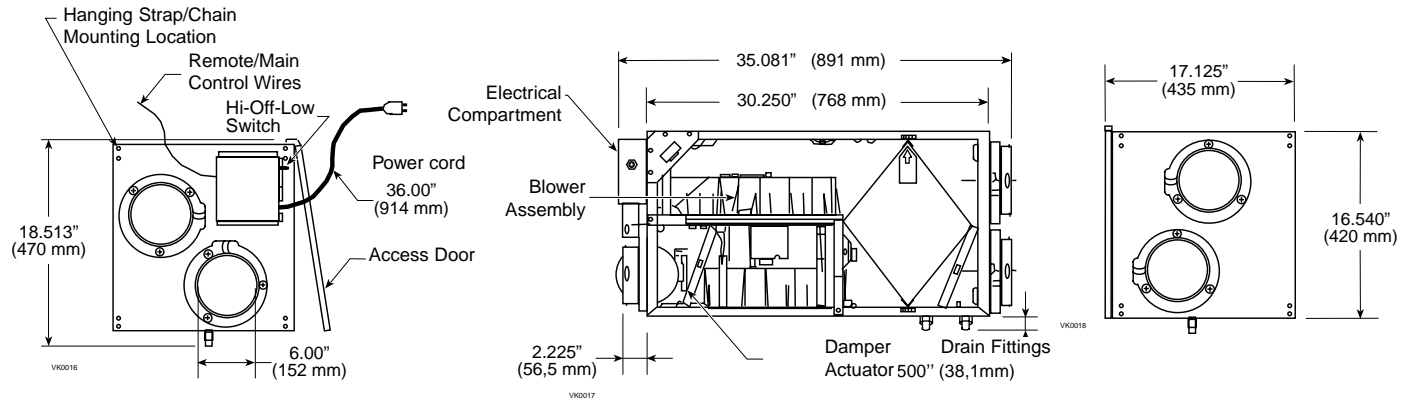
Type: Crossflow core

Warranty: Lifetime

Requirements and Standards

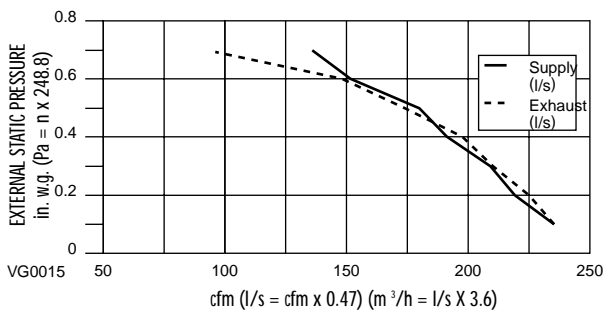
- Complies with the UL 1812 requirements regulating the installation of Heat Recovery Ventilators.
- Complies with the CSA C22.2 #113 Standard applicable to ventilators.
- Complies with the CSA C444 requirements regulating the installation of Energy Recovery Ventilators.
- HVI certified.
- Technical data was obtained from published results of tests relating to CSA C439 Standards.

Dimensions and Service Clearances: Venmar HRV Constructo 2.0



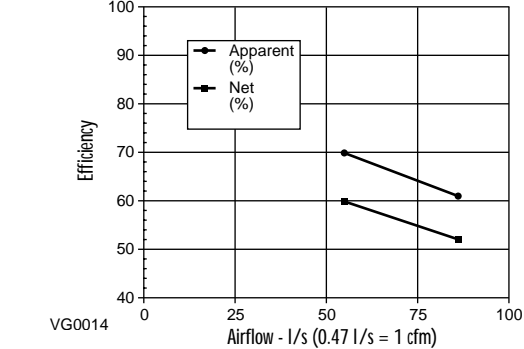
Ventilation Performance

EXT STATIC PRESSURE	NET SUPPLY AIR FLOW					GROSS AIR FLOW				
	Pa	in. w.g.	l/s	cfm	m ³ /h	l/s	cfm	m ³ /h	l/s	cfm
25	.1	110	234	396	112	237	403	112	237	403
50	.2	103	219	374	105	223	378	106	225	382
75	.3	98	208	353	100	211	360	99	210	356
100	.4	89	189	320	91	192	328	91	193	328
125	.5	84	177	302	85	180	306	82	174	295
150	.6	71	151	256	72	153	259	70	149	256
175	.7	64	136	231	65	138	234	44	94	160



Energy Performance

SUPPLY TEMPERATURE	C°	F°	NET AIR FLOW		POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT RECOVERY/MOISTURE TRANSFER
			l/s	cfm				
HEATING								
0	+32	56	119	202	124	60	70	-0.01
0	+32	86	182	310	197	53	62	-0.01
0	+32	---	---	---	---	---	---	---
-25	-13	37	78	133	114	62	80	0.08
-25	-13	---	---	---	---	---	---	---
COOLING								
+35	+95	---	---	---	---	TOTAL RECOVERY EFFICIENCY		
+35	+95	---	---	---	---	Not tested		



Specifications and Ratings

- Model: Venmar Constructo 2.0
- Part Number #45110 Canada, #1601612 U.S., #45119 Int.
- Total Assembled Weight: 67 lbs (30,5 Kg)
- Supply Air Duct Connections: 6" (15,24 cm) diameter
- Exhaust Air Duct Connections: 6" (15,24 cm) diameter
- Drains: 1/2" (1,2 cm) fittings
- 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) aluminium foil faced fiberglass, 0.825" (2,10 cm) expanded polystyrene
- Mounting: Chain and hardware provided to suspend unit
- Supply & Exhaust Blower Motor: 1 motor
 - Protection type: Thermally protected
 - Insulation class: B
 - V (motor marking): 120 V ac, 60 Hz, 1.7 A, 1040/1300/1630 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.
- Heat Recovery Core:
 - Heat Exchange Surface Area: 102 ft² (9,5 m²)
 - Type/Material: Crossflow / Polypropylene
- Unit Electrical Characteristics:

	Volts	Freq	Amperes	Watts	IP
Canada/US	120	60 Hz	2.1	240	-
Int. units	100	50/60 Hz	1.9/2.0	158/195	20
"	120	50/60 Hz	1.7/1.7	162/197	20
"	230-240	50/60 Hz	1.0/1.0	188/213	20

NOTE: All specifications are subjected to change without notice.

Submitted by:		Date:	Project:
Qty:	Model #:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:

