

VENMAR AVS DUO 1.9 Part no. 45700 Canada/U.S.A.

117 to 169 CFM (0.4 in. w.g.)



THE "HEALTH CONSCIOUS" SYSTEM THAT IS RIGHT FOR YOU

Designed to provide clean air all year round, the AVS DUO is particularly intented for customers with health concerns. Airborne bacteria, mites and allergens such as dust, pollen and mold are removed. Combined with an optional filter that can be inserted in the unit, the AVS DUO is the perfect ventilation system that provides a healthier indoor environment. The AVS DUO is also the prime choice to work in combination with an air conditioning unit.

- · Reversible unit installation
- Improved standard filter performance
- Unique pan design, easier to clean and maintain
- Integrated balancing dampers and pressure taps
- Polymeric enthalpy wheel: Recovers heat and humidity
- No drain
- Exclusive HomeShield™ patented defrost system
- SilentSure[™] operation
- PSC motor

REPAIRS AND MAINTENANCE

Venmar AVS DUO modular design makes it possible to remove all mechanical parts in less than 5 minutes. The recovery wheel and its driving mechanism are characterized by their simplicity and ease of maintenance. Resorting to proven technologies, the Venmar development team applied the principle of the belt-driven system used in cars and used a shock and vibration-absorbing axle to prevent wear on the motor.

The low power consumption PSC motor is permanently lubricated. Even better, the entire motor subassembly can be removed in less than a minute for easier maintenance. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The Venmar AVS DUO is fully protected by a 5-year warranty including the energy recovery thermal wheel. We are so confident in our product that we also offer a 90-day in-home warranty on parts and service.

Available at:

ENERGY RECOVERY VENTILATOR

Controls

- Our main control Altitude no. 40440 allows you to manage your ventilation with a programmable mode.
 This control also features our fully automated optimizer mode called the Smart mode
- The following main control is also available:

- Venta no. 40310

 One or more of the following optional controls can be added:

Humidity Control
60-minute mechanical timer
20/40/60-minute push button
no. 11297
no. 00910
no. 03364

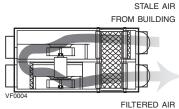
Options

- Complete line of registers and diffusers
- Electric duct heater

Filters: - Charcoal no. 03315
 - Pleated no. 03316
 - Electronic no. 03314

Homeshield™ Defrosting System

The AVS DUO 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.



		SIDE RATURE	DEFROST CYCLE DEFROSTING MIN./		
	°C	°F	OPERATING MIN.		
	WARMER	WARMER	No		
	THAN -5	THAN 23	DEFROST		
	-5 то -15	23 то 5	9/60		
	–15 то –27	5 то -19	9/32		
	-27 &	-19 &	0/20		
	LESS	LESS	9/20		

Energy Recovery Wheel

Dimensions: 14" Ø x 3¾" (36 cm Ø x 9.5 cm)

TO BUILDING

Weight: 5.5 lb (2.5 kg)

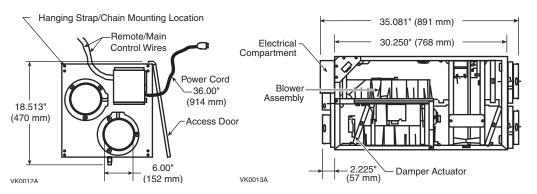
Material: Polymeric wheel impregnated with desiccant

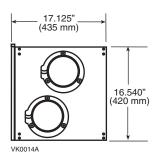
Type: Thermal wheel Warranty: 5-year warranty

Requirements and Standards

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

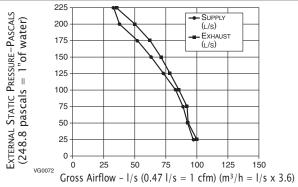
Dimensions and Service Clearances: Venmar AVS DUO 1.9





Ventilation Performance

EXT. STATIC		NET SUPPLY			GROSS AIR FLOW					
Pressure		Air Flow			SUPPLY			EXHAUST		
PA	IN. W. G.	L/S	CFM	м ³ /Н	L/S	CFM	M^3/H	L/S	CFM	M^3/H
25	0.1	97	206	350	99	211	359	100	214	364
50	0.2	92	196	333	95	201	342	95	203	345
75	0.3	85	181	308	87	186	316	90	192	326
100	0.4	79	169	287	81	173	294	85	180	306
125	0.5	72	153	260	74	156	265	79	168	285
150	0.6	63	134	228	65	138	235	70	149	253
175	0.7	51	108	184	52	111	189	62	132	224
200	0.8	38	81	138	39	83	141	50	106	180
225	0.9	33	69	117	33	71	121	35	75	127



Energy Performance

SUPPLY TEMPERATURE		NET AIR FLOW			Power CONSUMED	SENSIBLE RECOVERY	APPARENT SENSIBLE	LATENT/RECOVERY MOISTURE	
°C	°F	L/S	CFM	M ³ /H	WATTS	EFFICIENCY	EFFECTIVENESS	TRANSFER	
HEATING									
0	32	56	119	202	137	69	77	0.79	
0	32	83	177	302	201	64	71	0.75	
Cooling						TOTAL RECOVERY EFFICIENCY			
35	95	55	116	198	132	70			

NOTE: All specifications are subject to change without notice.

Specifications and Ratings

- Model: Venmar AVS DUO 1.9
- Part Number: 45700 Canada/U.S.A.
- Total Assembled Weight (including energy recovery wheel): 73 lb (33.1 Kg)
- Supply and Exhaust Air Duct Connections: 6" (15.24 cm) diameter
- Filters:20 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: 1" (2.54 cm) aluminum foil faced fiberglass, 0.825" (2.1 cm) expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply & Exhaust Blower Motor: 1 motor
- Protection type: Thermally protected
- Insulation class: B

- Fan Speed Control:
- Low or increased low & high speed
- Two speeds available for the user
- Low or increased low speed is selected at the time of installation
- Unit Electrical Characteristics: Canada/U.S.A.

Volts Frequency Amperes Watts 120 60 Hz 2.2 250

Project:	REMARKS	
LOCATION:		
Model no.:		
QTY.:		
SUBMITTED BY: DATE:		772371.04657



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