



**V E N M A R**®

# ENERGY RECOVERY VENTILATOR

## VENMAR AVS DUO 1.9

Part no. 45709

200 to 300 m<sup>3</sup>/h (100 Pa)



VB0088

### THE "HEALTH CONSCIOUS" SYSTEM THAT IS RIGHT FOR YOU

Designed to provide clean air all year round, the AVS DUO is particularly intended 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 electro mechanical 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.

Available at:

### Controls

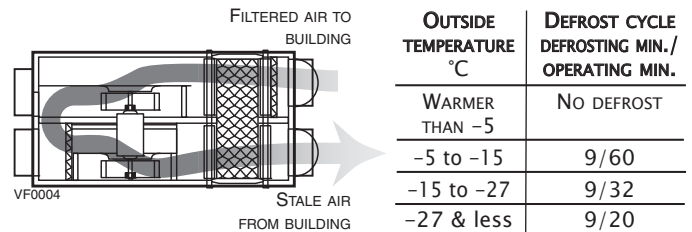
- Our brand new main control Altitude no. 40440 allows you to manage your ventilation with a new programmable mode. Also included, our unique and fully automated optimizer mode called the Smart mode. The Altitude brings your ventilation experience to new heights.
- Also, the following main control is available:  
-VENTA no. 40315
- One or more of the following optional controls can be added:  
Humidity Control: no. 11297  
60-minute mechanical timer: no. 00910  
20/40/60-minute push button: no. 03364

### Options

- Complete line of registers and diffusers
- 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, 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.



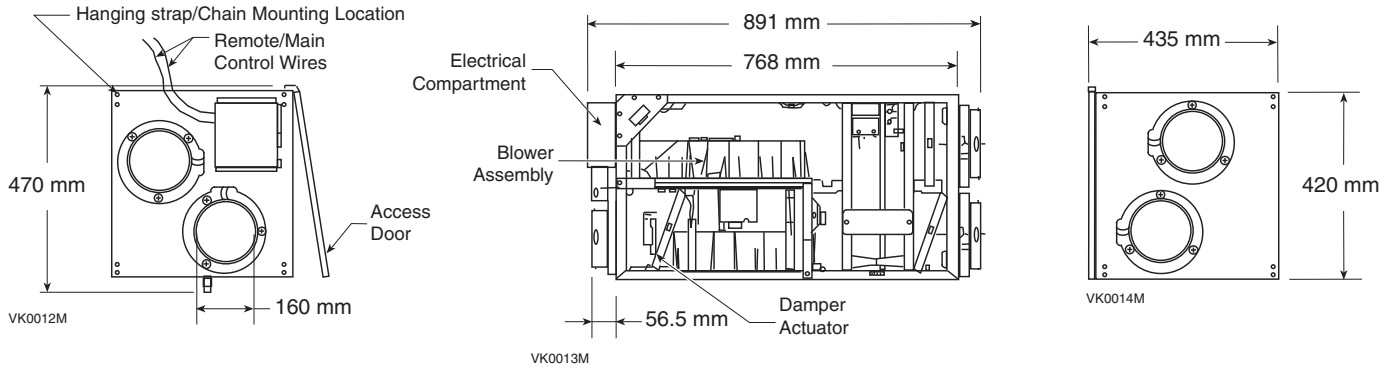
### Energy Recovery Wheel

Dimensions: 36 cm Ø x 9.5 cm  
 Weight: 2.5 kg  
 Material: Polymeric wheel impregnated with desiccant  
 Type: Thermal wheel  
 Warranty: 5-year warranty

### Requirements and Standards

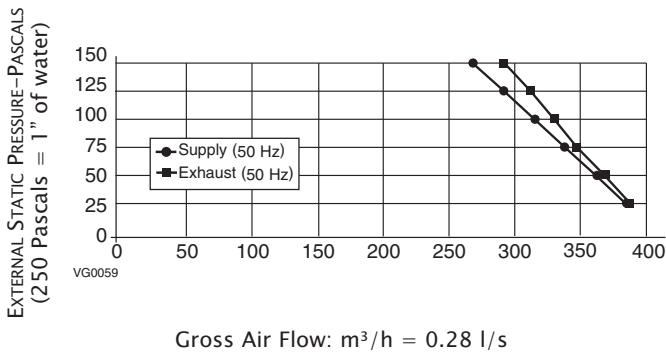
- Complies with the essential requirements of EN 60335-1 Safety of household and similar electrical appliances - Part 1: General requirements (September 1994) and Amendment A11 (May 1995).

# Dimensions and Service Clearances: Venmar AVS DUO 1.9



## Ventilation Performance (Unit at 50 Hz)

EXT. STATIC PRESSURE Pa	NET SUPPLY AIR FLOW m <sup>3</sup> /h	GROSS AIR FLOW	
		SUPPLY m <sup>3</sup> /h	EXHAUST m <sup>3</sup> /h
25	381	385	388
50	358	361	369
75	335	338	349
100	312	315	330
125	289	292	311
150	266	269	291



## Energy Performance

SUPPLY TEMPERATURE °C	NET AIR FLOW m <sup>3</sup> /h	POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT/RECOVERY MOISTURE TRANSFER
HEATING					
0	202	156	71	81	0.56
0	302	230	65	72	0.46
0	-	-	-	-	-
-25	184	189	66	82	0.69
-25	-	-	-	-	-
COOLING					
			TOTAL RECOVERY EFFICIENCY		
35	198	151	69		
35	-	-	-		

NOTE: All specifications are subjected to change without notice.

## Specifications and Ratings

- Model: Venmar AVS DUO 1.9
- Part Number: 45709
- Total Assembled Weight (Including polypropylene core) : 31 Kg
- Supply and Exhaust Air Duct Connections: 16 cm diameter
- Filters: -20 ppi washable reticulated foam 39 cm x 18 cm x 1.9 cm
- Cabinet: pre-painted steel
- Insulation: 2.54 cm aluminum foil faced fiberglass, 2.10 cm expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply and Exhaust Blower Motor: 1 motor
  - Protection type: Thermally protected
  - Insulation class: B
- V (motor marking): 120V ac, 50/60 Hz, 1.7A, 1040/1300/1630 RPM
- 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:
 

Volts	Freq	Amperes	Watts	IP
230-240	50Hz	1.0	193	20



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