



VENMAR®

VENMAR AVS DUO 1.4

Part no. 43709

109 to 205 m³/h (100 Pa)



VB0087

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:

ENERGY RECOVERY VENTILATOR

Controls

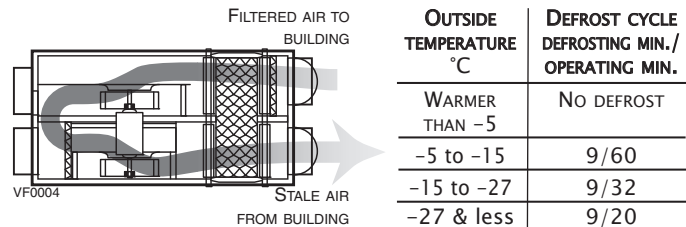
- Our brand new main control Altitude no. 40440 allows you to manage your ventilation with a new programmable mode. Also included, our unique and fully automated optimizer mode called the Smart mode. The Altitude brings your ventilation experience to new heights.
- Also, the following main control is 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.



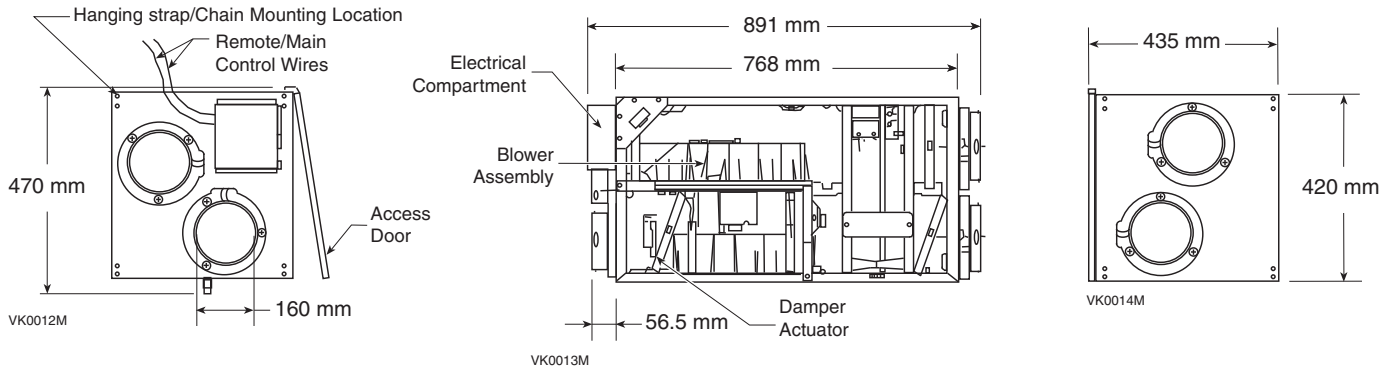
Heat Recovery Wheel

Dimensions: 30.5 cm Ø x 9.5 cm
 Weight: 1.9 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 1.4



Ventilation Performance (Unit at 60 Hz)

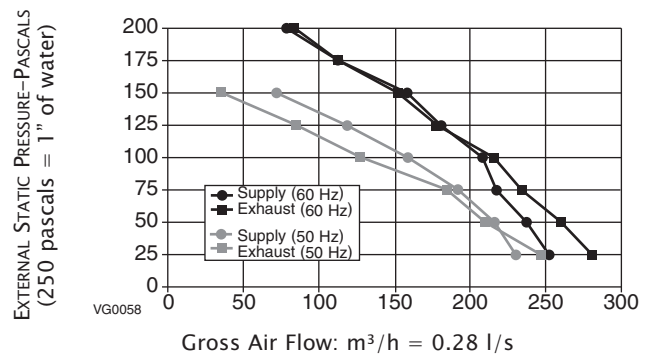
EXT. STATIC PRESSURE Pa	NET SUPPLY AIR FLOW m ³ /h	GROSS AIR FLOW	
		SUPPLY m ³ /h	EXHAUST m ³ /h
25	246	251	280
50	233	238	260
75	216	219	234
100	204	209	216
125	177	180	177
150	155	158	151
175	109	112	112
200	78	80	83

(Unit at 50 Hz)

EXT. STATIC PRESSURE Pa	NET SUPPLY AIR FLOW m ³ /h	GROSS AIR FLOW	
		SUPPLY m ³ /h	EXHAUST m ³ /h
25	225	230	248
50	212	216	210
75	188	192	184
100	156	159	138
125	116	119	84
150	70	72	35

Energy Performance

SUPPLY TEMPERATURE °C	NET AIR FLOW m ³ /h	POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT/RECOVERY MOISTURE TRANSFER
HEATING					
0	115	110	70	80	0.79
0	169	164	65	74	0.67
0	205	172	64	72	0.60
-25	104	120	64	79	0.65
-25	-	-	-	-	-
COOLING			TOTAL RECOVERY EFFICIENCY		
35	112	104	69		
35	205	168	61		



NOTE: All specifications are subjected to change without notice.

Specifications and Ratings

- Model: Venmar AVS DUO 1.4
- Part Number: 43709
- Total Assembled Weight (Including polypropylene core) : 29.5 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, 1.2/1.0A, 1050/1300/1660 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	50/60 Hz	0.7/0.7	147/164	20



PO Box 853 Woodend
Victoria Australia 3442

[T] 61 (03) 5427 3175
 [F] 61 (03) 5427 3215
 [M] 0412 482 060
 [E] info@air2energy.com.au
 [W] www.air2energy.com.au