



VENMAR AVS 1.8 HE

PART NO. 45400

115 to 197 CFM (0.4 in. w.g.)



FOR HOMEOWNERS LOOKING FOR THE BEST PERFORMANCE, ADDED VALUE, QUALITY AND A LONGER WARRANTY

Recognized for its unsurpassed quality and superior craftsmanship, the High Efficiency Series reflects a new level of exceptional performance. It is guaranteed to satisfy the homeowner looking for durability, reliability and performance.

- Vertical design
- All ports on top
- HomeShield™ patented defrost system; no negative pressure
- SilentSure™ quiet operation
- Low voltage connector for optional controls

REPAIRS AND MAINTENANCE

All parts of the 1.8 HE HRV can be removed quickly, allowing direct access for easy repairs. The low power consumption PSC motors are permanently lubricated. Even better, the entire motor subassembly can be removed for easier maintenance. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The 1.8 HE HRV is fully protected by a 5-year warranty on parts, the best in the industry, and the heat recovery core is covered by a lifetime warranty for as long as the buyer owns the house in which the unit has been installed.

Available at:



HEAT RECOVERY VENTILATOR

Controls

- This unit must be controlled by a main control. For a complete list of main and optional auxiliary controls available, refer to the **Wall Control Compatibility Chart** on last pages of wall controls specification sheet, available at www.venmar.ca.
- For more details about controls, refer to the **Main and auxiliary wall controls** user guide, also available at www.venmar.ca.

Options

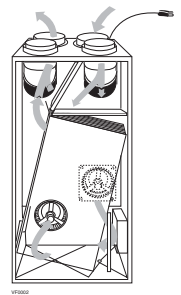
- Integrated furnace interlock relay
- Complete line of registers and diffusers
- Electric duct heater
- Installation parts are available from your wholesaler

No Negative Pressure Defrost

The 1.8 HE HRV uses a unique defrost method. No negative pressure is created by air exhausted to the outdoors, as the air is recirculated into the house, helping to prevent any backdraft.

| Outdoor temperature | | Defrost cycle Defrosting min./ Operating min. |
|---------------------|----------------|---|
| °C | °F | |
| Warmer than -5 | Warmer than 23 | No defrost |
| -5 to -15 | 23 to 5 | 6/60 |
| -15 to -27 | 5 to -19 | 6/32 |
| -27 and less | -19 and less | 6/20 |

Filtered air to building Stale air from building



Heat Recovery Core

Dimensions: 15" x 28" x 14 3/8" (38 cm x 71 cm x 36.5 cm)

Exchange surface: 184 ft.² (17.1 m²)

Weight: 32 lb. (14 kg)

Type: Counterflow

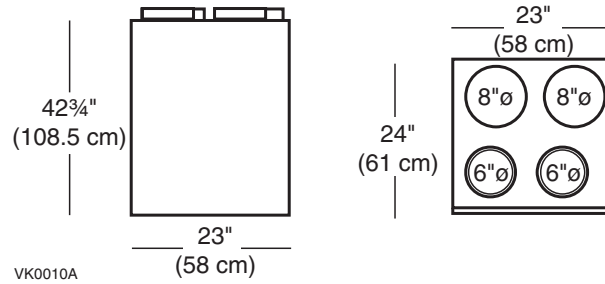
Material: Polypropylene, light and easy to clean

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 the CSA C444 requirements regulating the installation of Heat Recovery Ventilators
- Technical data were obtained from published results of tests relating to CSA C439 Standards
- HVI certified

Dimensions: HRV 1.8 HE

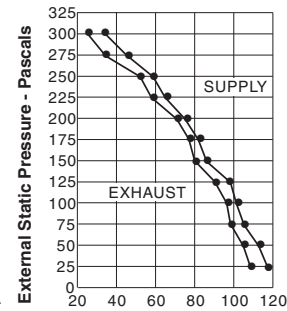


Ventilation Performance

| EXTERNAL STATIC PRESSURE | | NET SUPPLY AIR FLOW | | | GROSS AIR FLOW | | | | | |
|--------------------------|----------|---------------------|-----|-------------------|----------------|-----|-------------------|---------|-----|-------------------|
| PA | IN. W.G. | L/S | CFM | M ³ /H | SUPPLY | | | EXHAUST | | |
| | | | | | L/S | CFM | M ³ /H | L/S | CFM | M ³ /H |
| 25 | 0.1 | 109 | 231 | 392 | 116 | 246 | 418 | 107 | 227 | 386 |
| 50 | 0.2 | 107 | 227 | 386 | 114 | 242 | 411 | 103 | 218 | 370 |
| 75 | 0.3 | 99 | 209 | 355 | 105 | 222 | 377 | 97 | 206 | 350 |
| 100 | 0.4 | 93 | 197 | 335 | 99 | 210 | 357 | 93 | 197 | 335 |
| 125 | 0.5 | 89 | 189 | 321 | 95 | 201 | 341 | 88 | 186 | 316 |
| 150 | 0.6 | 81 | 171 | 291 | 86 | 182 | 309 | 81 | 172 | 292 |
| 175 | 0.7 | 75 | 159 | 270 | 80 | 169 | 287 | 76 | 161 | 274 |
| 200 | 0.8 | 68 | 143 | 243 | 72 | 153 | 260 | 69 | 145 | 246 |
| 225 | 0.9 | 62 | 131 | 223 | 66 | 140 | 238 | 58 | 123 | 209 |
| 250 | 1.0 | 55 | 116 | 197 | 58 | 123 | 209 | 50 | 106 | 180 |
| 275 | 1.1 | 43 | 92 | 156 | 46 | 97 | 165 | 35 | 74 | 126 |

Energy Performance

| SUPPLY T | | NET AIR FLOW | | | POWER CONSUMED | SENSIBLE RECOVERY EFFICIENCY | APPARENT SENSIBLE EFFECTIVENESS | LATENT RECOVERY/MOISTURE TRANSFER |
|----------|-----|--------------|-----|-------------------|---------------------------|------------------------------|---------------------------------|-----------------------------------|
| °C | °F | L/S | CFM | M ³ /H | WATTS | | | |
| HEATING | | | | | | | | |
| 0 | 32 | 52 | 111 | 187 | 158 | 84 | 95 | 0.05 |
| 0 | 32 | 55 | 117 | 198 | - | 84 | - | - |
| 0 | 32 | 71 | 151 | 256 | 184 | 79 | 90 | 0.03 |
| 0 | 32 | 84 | 179 | 302 | 210 | 79 | 89 | 0.12 |
| -25 | -13 | 57 | 121 | 205 | 176 | 72 | 88 | -0.04 |
| COOLING | | | | | | | | |
| | | | | | TOTAL RECOVERY EFFICIENCY | | | |
| 35 | 95 | 55 | 117 | 198 | 160 | 13 | | |
| 35 | 95 | 76 | 162 | 274 | 198 | 15 | | |



NOTE: All specifications are subject to change without notice.

Specifications

- Model: Venmar AVS 1.8 HE
- Part Number: 45400
- Total Assembled Weight (including polypropylene core): 140 lb. (63.5 kg)
- Outgoing air duct connections:
 - Stale: 6" (15.25 cm)
 - Fresh: 8" (20 cm)
- Incoming air duct connections:
 - Stale: 8" (20 cm)
 - Fresh: 6" (15.25 cm)
- Drains: 1/2" (1.2 cm) fittings with 10' (3 m) PVC drain
- Filters: 20 ppi washable reticulated foam
- Housing: Pre-painted steel
- Insulation: 3/4" (1.9 cm) expanded polystyrene and 1/2" acoustic fiberglass wool
- Mounting:
 - Suspension by chains and springs
- Supply and Exhaust blower motor: 2 motors
 - Protection type: Thermally protected
 - Insulation class: B
- 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: 184 ft² (17.1 m²)
 - Type: Counterflow
 - Material: Polypropylene
- Unit electrical characteristics: 120 V 60 Hz 250 W 2.5 A

| | |
|---------------------------------|---------|
| Project: | REMARKS |
| Location: | |
| Part no.: 45400 | |
| Qty.: | |
| Submitted by: _____ Date: _____ | |



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