



BROAN HRVH100
Part no. HRVH100S

50 to 104 CFM (0.4 in. w.g.)



VB0245

THE BROAN HRVH100 UNIT IS A NEW GENERATION OF HEPA FILTRATION

Indeed, this heat recovery ventilator is equipped with a HEPA filter that removes 99.97% of allergens and other microscopic particles in the air. The Broan HRVH100 unit has an ultra-quiet operation, barely audible at low speed (2.5 sones), thanks to the advanced design of its blower, which also contributes to its high energy efficiency. Furthermore, since the Broan HRVH100 ducting diameter is reduced to 5 inches, its installation is now easier and faster than before.

- 5-in. diameter ports mean smaller duct to ease installation
- Integrated control
- Removable terminal block to ease optional wall control connections
- Integrated pressure taps
- Ultra-quiet operation
- Furnace interlock capability
- ENERGY STAR® qualified

REPAIRS AND MAINTENANCE

All parts of the Broan HRVH100 unit that could need maintenance can be removed in less than five minutes, allowing direct access for easy repairs. The PSC motor is permanently lubricated.

WARRANTY

The Broan HRVH100 unit is protected by a 5-year warranty on parts only. The heat recovery core is covered by a limited lifetime warranty, with the original proof of purchase.

This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR requirements only when used in Canada.

HEAT RECOVERY VENTILATOR

Controls

- This unit is very simple to operate: once it is installed, press on its push button, located on the bottom of the electronic compartment, to activate it. Press once for low speed, once again for high speed, and once more to stop it.
- For more convenience, this unit can also be controlled by an optional main control. For a complete list of optional main and auxiliary controls available, refer to the **Wall Control Compatibility Chart** on last pages of wall controls specification sheet.
- For more details about controls, refer to the **Main and auxiliary wall controls** user guide.

Options

- Dual exterior hood kit (including Tandem® transition), part no. VTYIK1
- Complete line of registers and diffusers

Homesield™ Defrost System

When the outdoor temperature is below 23°F, heat recovery creates frost in the core. To maintain its proper operation, the Broan HRVH100 unit is programmed to defrost the heat recovery core, using a unique defrosting method. No negative pressure is created by air exhausted to the outdoor, as the air is recirculated into the house, helping to prevent any backdraft.

| OUTDOOR TEMPERATURE | | DEFROST CYCLE |
|---------------------|-----------------|------------------------|
| °F | °C | DEFROST / AIR EXCHANGE |
| WARMER THAN 23 | WARMER THAN -5 | NO DEFROST |
| FROM 23 TO 5 | FROM -5 TO -15 | 6 MINUTES / 40 MINUTES |
| FROM 5 TO -17 | FROM -15 TO -27 | 5 MINUTES / 21 MINUTES |
| -17 AND LESS | -27 AND LESS | 8 MINUTES / 15 MINUTES |

Heat Recovery Core

Dimensions: 10 in. x 10 in. x 10 in. (25.4 cm x 25.4 cm x 25.4 cm)

Exchange surface: 70 sq. ft. (6.5 m²)

Weight: 5 lb. (2.3 kg)

Material: Polypropylene

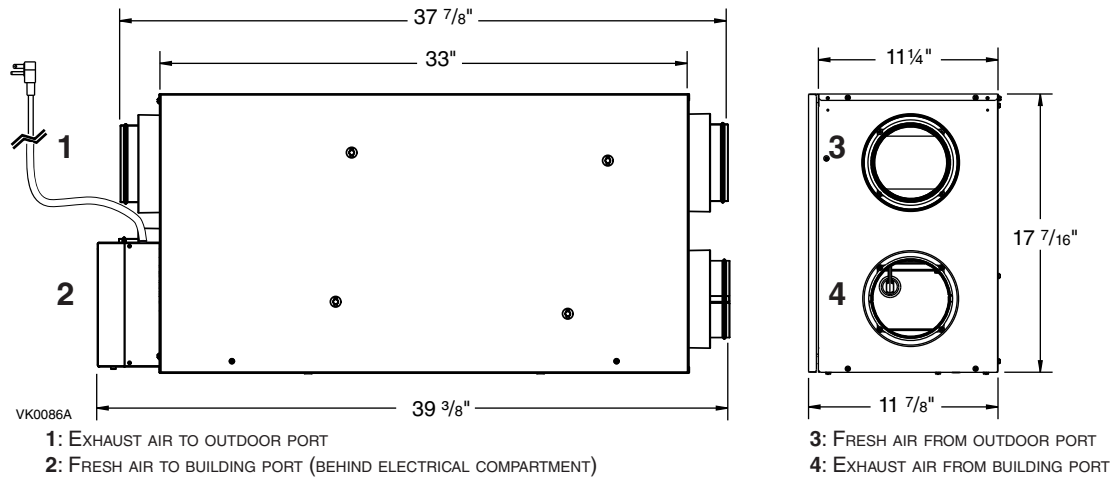
Type: Cross flow

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 CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of tests relating to CSA C439 Standards
- HVI certified
- ENERGY STAR® qualified

DIMENSIONS: BROAN HRVH100



NOTE: All unit ports were created to be connected to ducts having a minimum of 5" diameter, but if need be, they can be connected to bigger sized ducts by using an appropriate transition (e.g.: 5" diameter to 6" diameter transition).

VENTILATION PERFORMANCE

| EXTERNAL STATIC PRESSURE | | NET SUPPLY AIR FLOW | | | GROSS AIR FLOW | | | | | |
|--------------------------|----------|---------------------|-----|-----|----------------|-----|-------------------|---------|-----|-------------------|
| PA | IN. W.G. | AIR FLOW | | | SUPPLY | | | EXHAUST | | |
| | | | | | L/S | CFM | M ³ /H | L/S | CFM | M ³ /H |
| 25 | 0.1 | 54 | 114 | 194 | 54 | 114 | 194 | 59 | 126 | 214 |
| 50 | 0.2 | 53 | 112 | 190 | 53 | 112 | 190 | 57 | 121 | 206 |
| 75 | 0.3 | 51 | 109 | 185 | 51 | 109 | 185 | 55 | 117 | 199 |
| 100 | 0.4 | 49 | 104 | 177 | 49 | 104 | 177 | 53 | 112 | 190 |
| 125 | 0.5 | 46 | 98 | 166 | 46 | 98 | 166 | 50 | 107 | 182 |
| 150 | 0.6 | 43 | 92 | 156 | 43 | 92 | 156 | 49 | 103 | 175 |
| 175 | 0.7 | 41 | 86 | 146 | 41 | 86 | 146 | 46 | 98 | 166 |
| 200 | 0.8 | 37 | 79 | 134 | 37 | 79 | 134 | 43 | 92 | 156 |
| 225 | 0.9 | 35 | 74 | 164 | 35 | 74 | 164 | 41 | 86 | 146 |

ENERGY PERFORMANCE

| SUPPLY TEMPERATURE | | NET AIR FLOW | | POWER CONSUMED WATTS | SENSIBLE RECOVERY EFFICIENCY | ADJUSTED SENSIBLE RECOVERY EFFICIENCY | APPARENT SENSIBLE EFFECTIVENESS* | LATENT RECOVERY/MOISTURE TRANSFER |
|--------------------|-----|--------------|-----|----------------------|------------------------------|---------------------------------------|----------------------------------|-----------------------------------|
| °C | °F | L/S | CFM | | | | | |
| HEATING | | | | | | | | |
| 0 | 32 | 24 | 51 | 42 | 65 | 72 | 75 | -0.01 |
| 0 | 32 | 30 | 64 | 51 | 61 | 66 | 71 | -0.01 |
| -25 | -13 | 24 | 51 | 46 | 60 | 62 | 78 | 0.02 |
| -25 | -13 | 30 | 64 | 51 | 55 | 59 | 71 | 0.03 |

*Data not certified by HVI.

NOTE: All specifications are subject to change without notice.

SPECIFICATIONS

- Model: HRVH100
- Part number: HRVH100S
- Total assembled weight (including polypropylene core): 46.5 lb. (21.1 kg)
- Round 5" ports
- Drain: 1/2" (1.2 cm) fittings with 10 ft. (3 m) PVC drain hose
- Core filters: 2 washable
9 3/8" x 10" x 3/8"
(23.8 cm x 25.4 cm x 0.95 cm)
- Housing: Pre-painted steel
- Insulation: Expanded polystyrene
- Installation: Suspension by chains and springs
- Supply and Exhaust Blower Motor: 1 motor
- Protection type: Thermally protected
- Insulation class: B
- Speed control on unit: Low & High speeds. Other modes available with main and optional wall controls.
- Heat recovery core:
- Exchange surface: 70 sq. ft. (6.5 m²)
- Type/Material : Crossflow/Polypropylene
- Unit Electrical Characteristics:
Volts Frequency Ampere Watts
120 60 Hz 0.6 68

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