FRESH AIR SYSTEMS
BETTER AIR. BETTER LIFE.

ENERGY & HEAT RECOVERY VENTILATORS
WHY INDOOR AIR QUALITY IS IMPORTANT TO YOU.

Consider this, according to the EPA (epa.gov), indoor air quality is five times worse than outdoor air quality. Most homeowners know that indoor air quality is important, but not all recognize what contributes to poor indoor air quality, the potential effects and harm, and how to address these problems. Broan is here to help. For more than 80 years, Broan has led the industry with residential ventilation solutions that improve indoor air quality and provide healthier home environments.

**Moisture** that is not properly ventilated can cause mildew and mold formation, which can potentially lead to structural problems and health problems. Exhaust ventilation solutions from Broan remove humidity at the source to help maintain the optimal humidity balance of 40 to 60 percent.

**Off-gassing** from construction materials, carpeting, adhesives and synthetic materials—as well as solvents from common household cleaners—can accumulate in tightly built homes. Look to Broan for continuous ventilation solutions that meet ASHRAE 62.2.

**Particulates** from dust, allergens, pet dander, and more can contribute to poor indoor air quality up to 100 times dirtier than outside air. With a properly ventilated home, you create a more enjoyable, comfortable and healthier environment.

**Cooking effluents** from food preparation can infiltrate the whole house in minutes. Grease, oils and aromas settle permanently into carpets, furniture, clothing and other surfaces. Kitchen ventilation solutions help eliminate cooking effluents for a cleaner, more comfortable and healthier environment.
WHEN YOUR HOME BREATHES YOU BREATHE EASIER TOO.

BROAN CAN IMPROVE INDOOR AIR QUALITY IN EVERY ROOM OF THE HOME.

From clearing humidity in the bathroom to removing heat, steam and airborne effluents in the kitchen. From whole-house HEPA air filtration and balanced fresh air exchange solutions to attic ventilation. From the family room to the master bedroom and in every room in between, no company knows residential and light commercial ventilation like Broan. After more than 80 years, countless innovations and a commitment to indoor air quality, trust Broan to clear up every concern.

EXHAUST VENTILATION removes excess moisture and odor from any room in the home, and can also provide continuous, whole-house ventilation.

KITCHEN VENTILATION expels cooking effluents from food preparation to eliminate airborne pollutants from spreading through the entire house.

FRESH AIR SYSTEMS efficiently exchange inside air with fresh outside air, and remove airborne particulate with HEPA filtration.

DID YOU KNOW?*

Knowing the facts goes a long way toward a healthier indoor environment:

**Just 46%** recognize not having a bathroom fan has a negative impact on indoor air quality—only 42% recognize that a lack of a range hood also has a negative impact.

**60%** have a fan in each bathroom but only one in five let it run for 10 minutes after showering.

Some homeowners don’t recognize the causes of poor indoor air quality:

**Only 42%** are concerned about moisture that causes mold or mildew.

**Only 33%** know food aromas after preparation is an indicator of poor IAQ.

**81%** don’t know that a foggy mirror means poor IAQ.

Most homeowners are tuned in to residential Indoor Air Quality concerns:

**60%** know that indoor air quality has a greater impact on their health than outdoor air quality.

**90%** realize poor indoor air quality contributes to certain health issues and that healthy air helps prevent illness.

*2014 Kelton Broan Air Quality Survey*
WHEN DO YOU WANT FRESH AIR IN YOUR HOME?

We want fresh air always and in every room of our homes, of course. Broan fresh air systems are the centerpiece of today’s tightly constructed, energy-efficient homes, providing a continuous supply of fresh air to improve indoor air quality and overall home comfort.

FRESH AIR WHEREEVER YOU LIVE

Most essential to providing fresh air to your home is properly managing incoming and outgoing air for your climate conditions, seasons, temperature and humidity levels. If not managed efficiently, indoor air quality, energy bills and overall home comfort can suffer. All Broan Energy Recovery Ventilators (ERVs) and Heat Recovery Ventilators (HRVs) feature exclusive Venmar® Core Technology engineered for all seasons and climate conditions. These fresh air systems exchange stale indoor air and pollutants for fresh, filtered air from outside, and Venmar® Core Technology efficiently manages the air exchange to maintain comfortable temperature and humidity levels. The result—fresh air and improved home comfort wherever you live.

IF MANAGING HUMIDITY AND TEMPERATURE IS MOST ESSENTIAL WHEREVER YOU LIVE

Broan ERVs with Venmar® Core Technology limit the humidity entering and exiting the home to maintain comfortable relative humidity (RH) levels; and these fresh air systems inhibit extreme air temperatures from entering the home to maintain comfortable indoor air temperatures.

**DRY CLIMATE**
Las Vegas, Nevada

- Outside air to house: 12% RH, 15°F Dew Point
- Stale air from building: 50% RH, 55°F Dew Point
- 27% RH, 50°F Dew Point
- Stale air to outside
- Pretreated air to house*: 29% RH, 50°F Dew Point

**HUMID CLIMATE**
Orlando, Florida

- Outside air to house: 80% RH, 69°F Dew Point
- Stale air from building: 50% RH, 55°F Dew Point
- 65% RH, 62°F Dew Point
- Stale air to outside
- Pretreated air to house*: 65% RH, 62°F Dew Point

*Based on the latent recovery performance of the Broan ERV100 model.
IF MANAGING TEMPERATURE IS MOST ESSENTIAL WHEREVER YOU LIVE

Broan HRVs and ERVs with Venmar® Core Technology inhibit extreme air temperatures from entering the home to maintain comfortable indoor air temperatures.

**HEATING SEASON**
Minneapolis, Minnesota

- Outside air to house -13°F
- 7°F Stale air to outside
- Stale air from building 75°F
- Pretreated air to house 61°F

**COOLING SEASON**
Phoenix, Arizona

- Outside air to house 110°F
- Stale air from building 75°F
- 105°F Stale air to outside
- Pretreated air to house 83°F

*Based on the latent recovery performance of the Broan ERV100 model.*
BROAN KNOWS TODAY’S STRINGENT VENTILATION CODES AND STANDARDS.

GO ABOVE AND BEYOND WITH BROAN FRESH AIR SYSTEMS
To improve home energy efficiency and HERS® scores as measured by the Home Energy Rating System Index beyond code-minimum requirements, choose Broan Energy Recovery Ventilators (ERVs) and Heat Recovery Ventilators (HRVs) featuring Venmar® Core Technology. For example:

Save up to $100 in annual home operating expenses by selecting a Broan HRV for Dwelling Unit Ventilation requirements instead of a code-minimum exhaust fan*.

Save up to 4 HERS points by selecting a Broan HRV or ERV for Dwelling Unit Ventilation requirements instead of a code-minimum exhaust fan*.

Save up to 10 HERS points by selecting a Broan ERV in a hot or temperate climate instead of a central fan integrated system*.

SELECTING THE PROPER WHOLE-HOUSE RESIDENTIAL VENTILATION SOLUTION.
Sizing your solution is a factor of square footage and the number of bedrooms in the dwelling to meet requirements. These charts are based on ASHRAE 62.2. Note that the 2010 and 2013 versions are different. Most states still operate under 62.2-2010 rates. Before specifying, check local building codes to verify ventilation requirements.

ASHRAE 62.2-2010 Required Continuous Ventilation Rate (CFM)

<table>
<thead>
<tr>
<th>Floor Area Sq. Ft.</th>
<th>0–1 BR</th>
<th>2–3 BR</th>
<th>4–5 BR</th>
<th>6–7 BR</th>
<th>&gt;7 BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1500</td>
<td>30</td>
<td>45</td>
<td>60</td>
<td>75</td>
<td>90</td>
</tr>
<tr>
<td>1501–3000</td>
<td>45</td>
<td>60</td>
<td>75</td>
<td>90</td>
<td>105</td>
</tr>
<tr>
<td>3001–4500</td>
<td>60</td>
<td>75</td>
<td>90</td>
<td>105</td>
<td>120</td>
</tr>
<tr>
<td>4501–6000</td>
<td>75</td>
<td>90</td>
<td>105</td>
<td>120</td>
<td>135</td>
</tr>
<tr>
<td>6001–7500</td>
<td>90</td>
<td>105</td>
<td>120</td>
<td>135</td>
<td>150</td>
</tr>
<tr>
<td>&gt;7500</td>
<td>105</td>
<td>120</td>
<td>135</td>
<td>150</td>
<td>165</td>
</tr>
</tbody>
</table>

ASHRAE 62.2-2013 Required Continuous Ventilation Rate (CFM)

<table>
<thead>
<tr>
<th>Floor Area Sq. Ft.</th>
<th>0–1 BR</th>
<th>2–3 BR</th>
<th>4–5 BR</th>
<th>6–7 BR</th>
<th>&gt;7 BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;500</td>
<td>30</td>
<td>40</td>
<td>45</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>500–1000</td>
<td>45</td>
<td>55</td>
<td>60</td>
<td>70</td>
<td>75</td>
</tr>
<tr>
<td>1001–1500</td>
<td>60</td>
<td>70</td>
<td>70</td>
<td>85</td>
<td>90</td>
</tr>
<tr>
<td>1501–2000</td>
<td>75</td>
<td>85</td>
<td>90</td>
<td>100</td>
<td>105</td>
</tr>
<tr>
<td>2001–2500</td>
<td>90</td>
<td>100</td>
<td>105</td>
<td>115</td>
<td>120</td>
</tr>
<tr>
<td>2501–3000</td>
<td>105</td>
<td>115</td>
<td>120</td>
<td>130</td>
<td>135</td>
</tr>
<tr>
<td>3001–3500</td>
<td>120</td>
<td>130</td>
<td>135</td>
<td>145</td>
<td>150</td>
</tr>
<tr>
<td>&gt;3501</td>
<td>135</td>
<td>145</td>
<td>150</td>
<td>160</td>
<td>165</td>
</tr>
</tbody>
</table>

AN ALTERNATIVE FORMULA APPROACH TO THE TABLES GIVEN ABOVE.

An alternative formula approach to the tables given above also exists and typically results in a lower, more precise CFM requirement. Under the more common 62.2-2010 version, continuous CFM requirements can be calculated using a formula as follows. CFM = .01 x floor area (in square feet) plus 7.5 x (number of bedrooms + 1).

Example: A 3,500 square foot home with 4 bedrooms would require 73 CFM.
.01 x 3,500 = 35
7.5 x (4+1) = 38
Add together for a total of 73 CFM
(as compared to the 90 from the above table).

The 62.2-2013 version increases the multiplier for floor area from .01 to .03. Note however that infiltration credits can be taken if blower door testing is conducted.

*BROAN KNOWS TODAY’S STRINGENT VENTILATION CODES AND STANDARDS.

*Based on software calculations and analysis conducted by Broan.
1. Specify the system type (ERV, HRV) for fresh air and improved home comfort wherever you live.

2. Select the product series that delivers air flow, recovery and filtration performance to meet any applicable regulatory requirements.

3. Identify the product form and fit for the application and for available space to install the unit.

**FULLY DUCTED SYSTEM***
Primarily for homes with radiant flooring, hot water or electric baseboard heating. Effective because unit captures pollutants at the source and distributes fresh air to living areas.

**SIMPLIFIED***
For homes with forced air heating systems or air handlers. Easy to install using existing furnace or air handler ducting.

**ATTIC INSTALLATION***
For Southern States
Depending on your geographical location, an attic installation is possible as long as the temperature is maintained above 10°C (50°F) at all times. Refer to installation manual for further details.

**EXHAUST DUCTED SYSTEM***
For homes with forced air heating systems or air handlers. Effective because unit captures pollutants at the source.

*The installation may differ from one unit or home to another.
The HE Series is the ideal whole-house ventilation solution for today’s energy efficient homes. These High Efficiency ventilators combine the best performance in energy recovery, electrical consumption and air filtration.

- High efficiency Venmar® Core Technology recovers up to 88% of the heat
- 50–250 CFM range covers all home sizes
- Optional HEPA filtration on select models captures 99.97% of allergens and other microscopic particles and may reduce symptoms of allergies or respiratory problems
- State-of-the-art ECM motors provide significant electrical consumption savings (an average of 67% compared to standard motors)

### Model Name

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ERV140 ECM / HRV160 ECM</th>
<th>HRV200 ECM / ERV200 ECM / HRV250 ECM / ERV250 ECM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>ERV140TE HRV160TE</td>
<td>ERV200TE HRV200TE ERV250TE HRV250TE</td>
</tr>
<tr>
<td>Ports location</td>
<td>Top</td>
<td>Top</td>
</tr>
<tr>
<td>Ports size (in.)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.2 in. w.g.)</td>
<td>40–157</td>
<td>40–176</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.4 in. w.g.)</td>
<td>40–140</td>
<td>53–156</td>
</tr>
<tr>
<td>Fan efficacy at 32°F (CFM/Watt)*</td>
<td>2.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Apparent sensible efficiency at 32°F**</td>
<td>73%</td>
<td>83%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at 32°F**</td>
<td>67%</td>
<td>75%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at -13°F**</td>
<td>60%</td>
<td>64%</td>
</tr>
<tr>
<td>Total recovery efficiency at 95°F**</td>
<td>52%</td>
<td>—</td>
</tr>
<tr>
<td>Filtration level</td>
<td>MERV 6</td>
<td>MERV 9</td>
</tr>
<tr>
<td>ENERGY STAR® Certified**</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions (in.) H x W x D</td>
<td>24″ x 23″ x 14″</td>
<td>31 x 32 x 20</td>
</tr>
</tbody>
</table>

*Performance at low speed.

**This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.
When standard ventilation is not enough, the Advanced Series is the solution to offer superior filtration, airflow capacity or higher recovery efficiency. Broan’s Advanced Series of HRVs and ERVs has the product range to meet every need.

**High efficiency filtration (Models HRVH100 & ERVH100)**
- HEPA filtration captures 99.97% of allergens and other microscopic particles and may reduce symptoms of allergies or respiratory problems.

**Superior airflow (Models HRV150, ERV180 & HRV190)**
- 66-192 CFM is ideal for medium to large homes.
- Extra airflow to manage excess humidity.

**High recovery efficiency (Model HRV160)**
- 83% of apparent efficiency at 32°F can improve home comfort and reduce utility bills.

---

### Performance Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>HRV100 / ERV100</th>
<th>HRV150 / ERV180 / HRV190</th>
<th>HRV150FLS / HRV190FLS</th>
<th>HRV160</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model number</strong></td>
<td>HRV100S ERV100S</td>
<td>HRV150S ERV180S HRV190S HRV150FLS HRV190FLS HRV160T</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ports location</strong></td>
<td>Side Side Side Side Side Side Top</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ports size (in.)</strong></td>
<td>5 5 6 6 6 6 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Min/max continuous airflow (CFM at 0.2 in. w.g.)</strong></td>
<td>50–112 50–111 66–174 80–209 82–215 66–174 82–215 65–183</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Min/max continuous airflow (CFM at 0.4 in. w.g.)</strong></td>
<td>50–104 50–100 66–150 80–183 82–192 66–150 82–192 65–155</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fan efficacy at 32°F (CFM/Watt)</strong></td>
<td>1.2 1.2 1.2 1.0 1.2 1.2 1.2 1.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Apparent sensible efficiency at 32°F</strong></td>
<td>75% 77% 79% 72% 79% 75% 79% 75% 83%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sensible recovery efficiency at 32°F</strong></td>
<td>65% 67% 67% 60% 65% 67% 67% 65% 75%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sensible recovery efficiency at -13°F</strong></td>
<td>60% 61% 60% 41% 60% 60% 60% 60% 70%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total recovery efficiency at 95°F</strong></td>
<td>— 53% — 52% — — — —</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Filtration level</strong></td>
<td>HEPA HEPA 15 PPI 15 PPI 15 PPI 15 PPI 15 PPI MERV 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENERGY STAR® Certified</strong></td>
<td>Yes Yes Yes No Yes Yes Yes Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (in.)</strong> H x W x D</td>
<td>Side port 17 x 39 x 12 17 x 35 x 17(\frac{1}{4}) 17 x 35 x 18 —</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top port — — — 24(\frac{7}{16}) x 24(\frac{7}{16}) x 14(\frac{13}{16})</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Performance at low speed.

**Energy Star Certified** This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.

---

**HEPA filtration** traps 99.97% of allergens and microscopic particles. It removes particles that are 0.3 microns or larger. The clean air that HEPA filters produce can result in improved health, especially for those who suffer from asthma and allergies.
The Sky Series ceiling-mounted ERVs are the perfect solution for high-rise residential towers or new construction in southern regions. The Sky Series features ceiling-mounted ERVs that minimize the installation footprint, and provides easy access for routine maintenance. It is the perfect solution for homes in regions with excessive humidity.

ERVS100

High-rise residential towers (Models ERV100 & ERV100+)
- Ceiling-mounted bracket system for quick installation on concrete ceiling
- Integrated anti-vibration system
- ColdShield™ protection system ensures fresh air is tempered in extreme conditions

Residential new construction for Southern regions (Model ERVS100)
- Venmar® Core Technology decreases excessive moisture by up to 51%
- Built-in sensor decreases ventilation during periods of excessive humidity
- Ceiling-mounted brackets fit between 20–25 inch trusses
- Affordable solution for new construction due to faster, easier installation

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ERV100</th>
<th>ERV100+</th>
<th>ERVS100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode number</td>
<td>ERV100S</td>
<td>ERV100SP</td>
<td>ERVS100S</td>
</tr>
<tr>
<td>Ports location</td>
<td>Side</td>
<td>Side</td>
<td>Side</td>
</tr>
<tr>
<td>Ports size (in.)</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.2 in. w.g.)</td>
<td>50–115</td>
<td>50–114</td>
<td>65–115</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.4 in. w.g.)</td>
<td>50–102</td>
<td>50–101</td>
<td>65–105</td>
</tr>
<tr>
<td>Fan efficacy at 32°F (CFM/Watt)*</td>
<td>1.2</td>
<td>1.2</td>
<td>1.4</td>
</tr>
<tr>
<td>Apparent sensible efficiency at 32°F*</td>
<td>75%</td>
<td>75%</td>
<td>71%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at 32°F*</td>
<td>67%</td>
<td>67%</td>
<td>64%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at -13°F*</td>
<td>51%</td>
<td>61%</td>
<td>—</td>
</tr>
<tr>
<td>Total recovery efficiency at 95°F*</td>
<td>54%</td>
<td>54%</td>
<td>48%</td>
</tr>
<tr>
<td>Filtration level</td>
<td>20 PPI / MERV 7 option</td>
<td>20 PPI / MERV 7 option</td>
<td>20 PPI / MERV 7 option</td>
</tr>
<tr>
<td>ENERGY STAR® Certified**</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Dimensions (in.) H x W x D</td>
<td>9 x 27½ x 20</td>
<td>9 x 27½ x 23½</td>
<td>9 x 27½ x 20</td>
</tr>
</tbody>
</table>

*Performance at low speed.

**This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.
The Flex Series is the ideal choice for apartments, condominiums and homes where space is limited and standard ventilation is required. Designed with builders and contractors in mind, the Flex Series is all about installation flexibility and simplicity.

### Model Name

<table>
<thead>
<tr>
<th>ERV70 / HRV80 / HRV90</th>
<th>ERV110 / HRV120 / ERV120</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ERV70S</th>
<th>HRV80S</th>
<th>HRV90S</th>
<th>ERV110S</th>
<th>HRV120S</th>
<th>ERV120S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>ERV70T</td>
<td>HRV80T</td>
<td>HRV90T</td>
<td>ERV110T</td>
<td>HRV120T</td>
<td>ERV120T</td>
</tr>
<tr>
<td>Ports location</td>
<td>Side / Top</td>
<td>Side / Top</td>
<td>Side / Top</td>
<td>Side / Top</td>
<td>Side / Top</td>
<td>Side / Top</td>
</tr>
<tr>
<td>Ports size (in.)</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.2 in. w.g.)</td>
<td>35–78</td>
<td>37–86</td>
<td>47–95</td>
<td>45–112</td>
<td>64–126</td>
<td>64–130</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.4 in. w.g.)</td>
<td>35–70</td>
<td>37–77</td>
<td>47–90</td>
<td>45–105</td>
<td>64–115</td>
<td>64–120</td>
</tr>
<tr>
<td>Fan efficacy at 32°F (CFM/Watt)*</td>
<td>1.3</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Apparent sensible efficiency at 32°F*</td>
<td>77%</td>
<td>80%</td>
<td>75%</td>
<td>79%</td>
<td>74%</td>
<td>79%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at 32°F*</td>
<td>66%</td>
<td>68%</td>
<td>68%</td>
<td>67%</td>
<td>65%</td>
<td>67%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at 32°F*</td>
<td>56%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>Total recovery efficiency at 95°F*</td>
<td>50%</td>
<td>—</td>
<td>—</td>
<td>50%</td>
<td>—</td>
<td>55%</td>
</tr>
<tr>
<td>Filtration level</td>
<td>30 PPI</td>
<td>30 PPI</td>
<td>30 PPI</td>
<td>30 PPI</td>
<td>30 PPI</td>
<td>30 PPI</td>
</tr>
<tr>
<td>ENERGY STAR® Certified**</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions (in.) H x W x D</td>
<td>16½/16 x 19½/16 x 15½/4</td>
<td>12½/16 x 27½/16 x 19½/16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Performance at low speed.

**This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.
Residential Main Wall Controls
Broan offers simple to more advanced wall controls to customize your fresh air system.

Auxiliary Wall Controls
Auxiliary wall controls can provide additional control to homeowners.

VB20W
- Bathroom override 20-minute timer

VB60W
- Bathroom override 20/40/60-minute timer

SELECT THE WALL CONTROL BEST SUITED TO YOUR NEEDS

<table>
<thead>
<tr>
<th>Main Wall Controls</th>
<th>Auxiliary</th>
<th>Wall Control Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>VT4W</td>
<td>VT6W</td>
</tr>
<tr>
<td>ERV70</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV80</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV90</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERV100</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERV100+</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERVS100</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>H/ERVH100</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERV110</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>H/ERV120</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV150</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV150FL</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV160</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERV140 ECM</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV160 ECM</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ERV180</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRV190</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HRB190FL</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>H/ERV200 ECM</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>H/ERV250 ECM</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

ACCESSORIES*

WHISPER REGISTERS
- Model V01269
  - 4" intake and exhaust
- Model V02863
  - 5" intake and exhaust
- Model V01271
  - 6" intake and exhaust
- Model V03585
  - 8" intake and exhaust

EXTERIOR VENTS
- Model VTYIK1
  - Tandem transition kit for units at 110 CFM and under
- Model V1607100
  - IN2000 hood kit (set 2)
- Model V12570
  - Anti-gust intake 6"
- Model 634M
  - Roof cap up to 6"

GRILLES AND PLASTIC REGISTERS
- Model V04790
  - Duct connector baffle 8" x 12"
- Model V04400
  - Duct connector 6" x 12"

AIRFLOW BALANCING KITS
- Model V18222
  - Balancing kit 0.5" and 1" H2O
- Model V11001
  - Air flow collar 6"d
- Model V11246
  - Air flow collar 8"d
- Model V11247
  - Air flow collar 7"d

Bring fresh air into the places where you work and play. Broan’s light commercial line-up offers three heat recovery ventilator platforms that are ideal for small businesses, professional offices, retail stores, veterinary clinics and small pool rooms.

<table>
<thead>
<tr>
<th>Platform</th>
<th>Model*</th>
<th>Defrost</th>
<th>Core Material</th>
<th>Access Door</th>
<th>Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Exhaust</td>
<td>Recirculation</td>
<td>Polymerised paper ERV HM4</td>
<td>Standard</td>
</tr>
<tr>
<td>B6LC</td>
<td>B6LCEHSN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6LCEHRN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6LCDHRN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6LCEPSN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6LCEPRN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6LCDPRN</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B12LC</td>
<td>B12LCEHSNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCEHRNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDHSNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDHRNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCEPSNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCEPRNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDPSNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDPRNW</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDPSNC</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B12LCDPRNC</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1600705</td>
<td>B1600705</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*More models available on a special order basis. Please ask Broan’s customer service or a sales representative for more details.
## SPECIFICATIONS
### BROAN RESIDENTIAL FRESH AIR SYSTEMS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>HE SERIES</th>
<th>ADVANCED SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>ERV140 ECM</td>
<td>HRV160 ECM</td>
</tr>
<tr>
<td>Ports location</td>
<td>Top</td>
<td>Top</td>
</tr>
<tr>
<td>Ports size (in.)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.2 in. w.g.)</td>
<td>40–157</td>
<td>50–226</td>
</tr>
<tr>
<td>Min/max continuous airflow (CFM at 0.4 in. w.g.)</td>
<td>40–140</td>
<td>53–156</td>
</tr>
<tr>
<td>Fan efficacy at 32°F (CFM/Watt)</td>
<td>2.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Apparent sensible efficiency at 32°F*</td>
<td>73%</td>
<td>83%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at 32°F*</td>
<td>67%</td>
<td>75%</td>
</tr>
<tr>
<td>Sensible recovery efficiency at -13°F*</td>
<td>60%</td>
<td>64%</td>
</tr>
<tr>
<td>Total recovery efficiency at 95°F*</td>
<td>52%</td>
<td>—</td>
</tr>
<tr>
<td>Filtration level</td>
<td>MERV 6</td>
<td>MERV 9</td>
</tr>
<tr>
<td>Filter model number</td>
<td>SV18204</td>
<td>SV18205</td>
</tr>
<tr>
<td>ENERGY STAR® Certified**</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions (in.) H x W x D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Side port</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Top port</td>
<td>24 9/16 x 23 9/16 x 14 15/16</td>
<td>31 x 32 x 20</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>65</td>
<td>52</td>
</tr>
<tr>
<td>Warranty on parts</td>
<td>5 years</td>
<td>5 years</td>
</tr>
<tr>
<td>Warranty on core</td>
<td>5 years</td>
<td>Limited lifetime</td>
</tr>
</tbody>
</table>

*Performance at low speed.

**This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.
## Model Name
- ERV140
- ECM
- HRV160
- ECM
- ERV200
- ECM
- HRV200
- ECM
- ERV250
- ECM
- HRV250
- ECM
- ERVH100
- HRVH100
- HRV150
- HRV150FL
- HRV190FL
- ERV100
- ERV100+
- ERVS100
- ERV70
- HRV80
- HRV90
- ERV110
- HRV120
- ERV120
- AE60

## Model Number
- ERV140TE
- HRV160TE
- ERV200TE
- HRV200TE
- ERV250TE
- HRV250TE
- HRVH100S
- ERVH100S
- HRV150S
- HRV150FLS
- HRV190FLS
- ERV180S
- HRV190S
- HRV160T
- ERV100S
- ERV100SP
- ERVS100S
- ERV70S
- ERV70T
- HRV80S
- HRV80T
- HRV90S
- HRV90T
- ERV110S
- ERV110T
- HRV120S
- HRV120T
- ERV120S
- ERV120T
- AE60

## Ports Location
- Top
- Top
- Top
- Top
- Top
- Top
- Side
- Side
- Side
- Side
- Side
- Top
- Side
- Side
- Side
- Side
- Side

## Ports Size (in.)
- 6
- 6
- 6
- 6
- 6
- 6
- 5
- 5
- 6
- 6
- 6
- 6
- 5
- 5
- 6
- 6
- 6
- 5
- 5
- 6

## Min/max Continuous Airflow (CFM)
- 40–157
- 40–176
- 50–226
- 50–245
- 50–259
- 50–271
- 50–112
- 50–111
- 66–174
- 66–174
- 82–215
- 80–209
- 82–215
- 65–183
- 50–115
- 50–114
- 65–115
- 35–78
- 37–86
- 47–95
- 45–112
- 64–126
- 64–130

## Fan Efficacy (CFM/Watt)
- 2.2
- 2.0
- 2.9
- 3.4
- 3.6
- 3.6
- 1.2
- 1.2
- 1.2
- 1.2
- 1.2
- 1.0
- 1.2
- 1.3
- 1.2
- 1.2
- 1.4
- 1.3
- 1.2
- 1.2
- 1.2

## Apparent Sensible Efficiency (%)
- 73%
- 83%
- 88%
- 85%
- 80%
- 81%
- 75%
- 77%
- 79%
- 79%
- 75%
- 72%
- 75%
- 75%
- 75%
- 75%
- 75%
- 77%
- 80%
- 75%
- 79%
- 74%
- 79%

## Sensible Recovery Efficiency (%)
- 67%
- 75%
- 84%
- 81%
- 75%
- 75%
- 65%
- 67%
- 67%
- 67%
- 60%
- 64%
- 65%
- 75%
- 67%
- 67%
- 64%
- 66%
- 68%
- 66%
- 67%
- 65%

## Sensible Recovery Efficiency (% at -13°F)
- 60%
- 64%
- 65%
- 73%
- 65%
- 66%
- 60%
- 61%
- 60%
- 60%
- 60%
- 41%
- 60%
- 73%
- 60%
- 70%
- 61%
- 60%
- 60%
- 60%
- 60%
- 60%

## Total Recovery Efficiency (%)
- 52%
- —
- 68%
- —
- 65%
- —
- 53%
- —
- 50%
- —
- 50%
- —
- 54%
- —
- 54%
- —
- 48%
- —
- 50%
- —
- 55%

## Filtration Level
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- MERV 6
- MERV 9
- Mesh

## Filter Model Number
- SV18204
- SV18205
- SV63427
- V22528
- SV63426
- V21996
- SV63433
- V21996
- SV63426
- V21996
- ACCHEPARF+
- ACCHEPAPFK
- ACCHEPARF+
- ACCHEPAPFK
- SV60800
- SV60799
- SV60800
- SV18204
- SV21029
- V21030
- SV21029
- V21030
- SV21029
- V21030
- SV18883
- SV18883
- SV18883
- SV16031
- SV16032
- SV16031

## ENERGY STAR® Certification
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- No
- Yes
- Yes
- No
- Yes
- Yes
- Yes

## Dimensions (in.) H x W x D
- Side port
- —
- —
- —
- —
- —
- 17 x 39 x 12
- 17 x 35 x 18
- 17 x 35 x 20

## Weight (lbs)
- 65
- 52
- 96
- 82
- 84
- 81
- 46.5
- 47
- 65
- 65
- 65
- 76
- 65
- 52
- 32
- 35
- 40
- 34
- 30
- 30
- 45
- 42
- 45
- 40

## Warranty on Parts
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 5 years
- 2 years

## Warranty on Core
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime
- Limited lifetime

*Performance at low speed.
**This product earned the ENERGY STAR rating by meeting strict energy efficiency guidelines set by Natural Resources Canada and the U.S. EPA. It meets ENERGY STAR requirements only when used in Canada.
THE LEADER IN RESIDENTIAL INDOOR AIR QUALITY.
WELCOME TO A BROAN HOME.

Broan® is America’s leading brand of residential ventilation products including range hoods, ventilation fans, fresh air systems, electric and solar-powered attic ventilators.