



ENERGY RECOVERY VENTILATOR



THE CARRIER ERV REFRESHES YOUR INDOOR AIR

A CARRIER ENERGY RECOVERY VENTILATOR ENHANCES YOUR OVERALL COMFORT.

REFRESH RATE

As part of our Indoor Air Quality (IAQ) strategy, Carrier has developed a three-step approach to truly delivering your home's indoor air quality.

As you look at our IAQ logo, the words Control, Filter and Refresh are designed to support the words Indoor Air



Quality. Whether in your residential home, light commercial or large industrial buildings as the three arrows symbolize, Carrier's strategy toward improving indoor air quality truly works. With this brochure, you will see that *Refreshing* your air is a vital component to improving your indoor air quality. For more details on Carrier's Control strategy, see our humidifiers, thermostats and zoning literature. For more details on Carrier's Filter strategy, see our electronic and mechanical air cleaner literature.

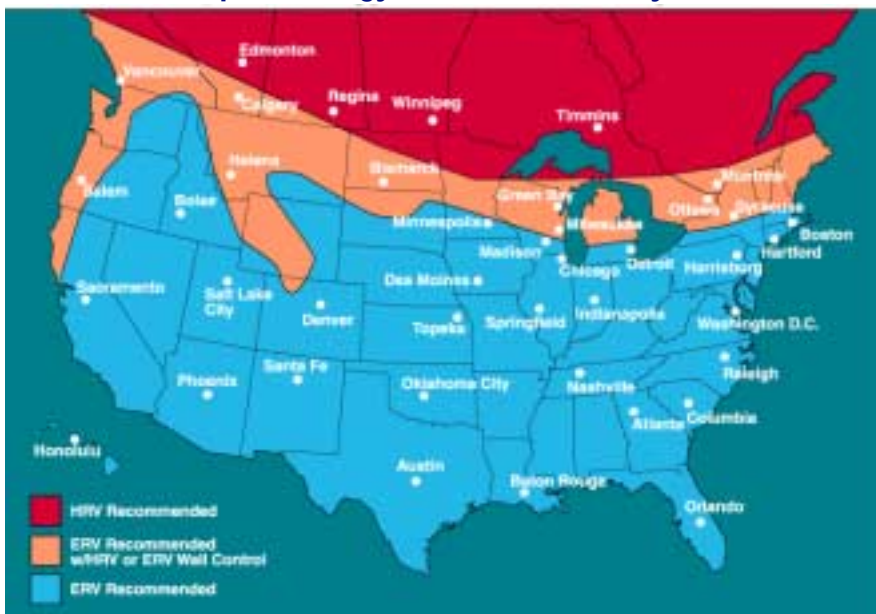
IAQ

As the cold weather settles in, let a Carrier Energy Recovery Ventilator (ERV) provide the fresh indoor weather you deserve. Today's air-tight homes provide excellent energy efficiency. However, better insulation restricts the

air exchange, trapping stale, polluted air inside your home. Without proper ventilation, dust, airborne particles, volatile organic compounds (VOCs), excessive humidity and other pollutants from building materials constantly recirculate throughout your home. That's why Carrier offers the ERV.



Climate Map for Energy and Heat Recovery Ventilators



HRV or ERV? If you live in a colder climate with a longer heating season, your dealer will likely recommend the HRV. For most of the United States, ERV are recommended because of their year-around efficiency. Your local Carrier dealer can determine which is best for you.

EFFICIENCY

The Carrier ERV recovers energy from indoor air and transfers it to incoming outdoor air, so you can enjoy fresh air without sacrificing energy efficiency. The ERV draws fresh air into your home from outside as stale, polluted air is pulled out of your home and expelled outside. When the two air streams move through the central energy recovery core, energy is transferred from the stale outgoing air to the fresh incoming air without ever mixing airstreams. That means maximum comfort with fresh, clean air and efficient performance from your indoor weather system.

FOR UNEQUALLED PERFORMANCE AND DURABILITY, CHOOSE CARRIER.

CUSTOM COMFORT

In addition to improving air quality, the ERV enhances your overall comfort. With the easy-to-use, wall-mounted control unit equipped with three different modes, you'll have fresh air at your fingertips. The recirculation mode provides air movement throughout your home without bringing in outside air. The continuous mode works 24 hours a day to provide a continuous flow of fresh outdoor air into your home. The intermittent mode operates when the indoor humidity exceeds your desired level, providing maximum fuel economy. The ERV will ensure your indoor weather comfort for years to come.



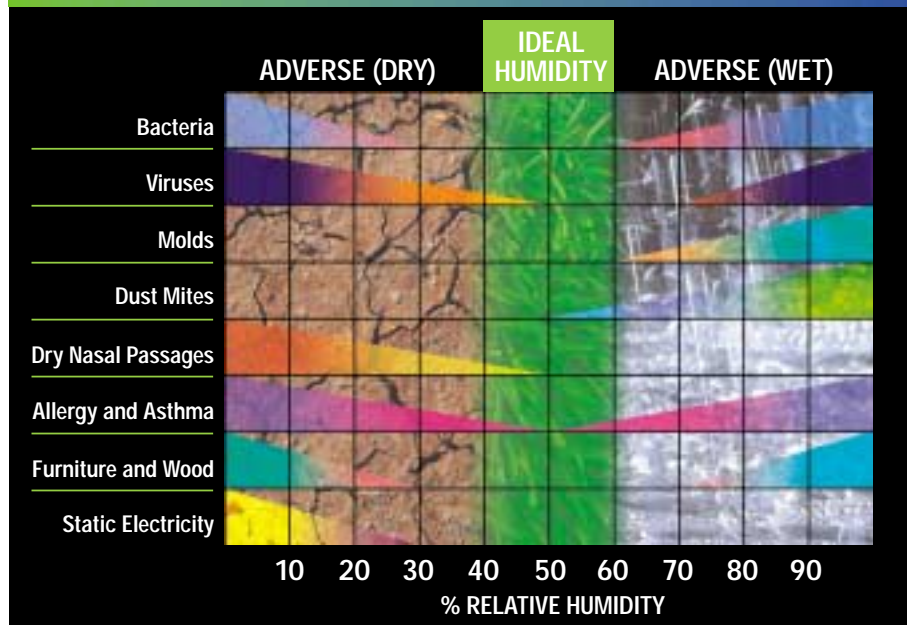
Simple wall control makes operating the ERV easy and convenient.

AIRFLOW

A Carrier ERV expels stale polluted air outdoors and refreshes your home with clean outside air, while at the same time recovering energy. This helps prevent and dilute the build-up of radon gas, carbon monoxide and other volatile organic compounds (VOCs). It is much more economical than opening a window in the middle of winter or summer. It also reduces humidity levels during winter months to reduce condensation on windows and doors.



WHY HUMIDITY IS IMPORTANT



Maintaining ideal humidity in your home can be the key to relief from dry nasal passages, static electricity, and dry, itchy skin. Proper humidity control is also important for minimizing the growth of bacteria, molds, viruses and dust mites. With tighter built homes, too much humidity in the winter can be a problem. For example, excessive moisture in the winter can cause sweating/water drops to develop on windows and door jams. This condition could prematurely deteriorate windows and door jams, in corners, near floors or basements, and cause mold and mildew to develop.

AN ENERGY RECOVERY VENTILATOR CAN BE THE SOLUTION TO IMPROVING YOUR INDOOR AIR QUALITY.

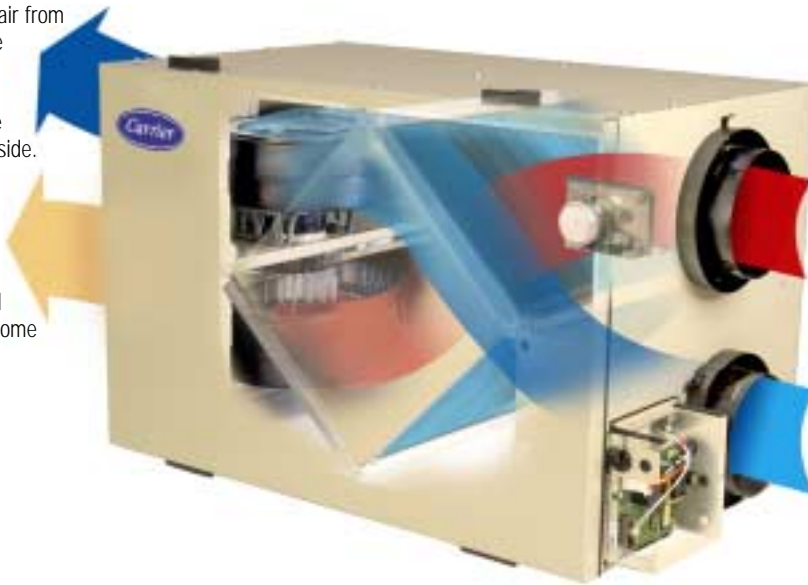
ERV AIRFLOW

STALE AIR TO OUTSIDE

Removes the stale air from your home after the energy transfer has taken place in the high-efficiency core and exhausts it outside.

FRESH AIR TO BUILDING

Delivers fresh, filtered, conditioned air back into your home comfort system.



FRESH AIR FROM OUTSIDE

Brings fresh, outside air into the unit. The fresh air filter removes large particles of dust and dirt from incoming fresh air.

STALE AIR FROM BUILDING

Connects to the return air duct system in your home to draw stale, indoor air into the ventilator core.

TODAY'S HOMES NEED PROPER VENTILATION

Ventilation Solutions

- 1 Spot ventilation for kitchen, bath and other moisture or odor producing areas
- 2 General ventilation to remove stale, polluted air and bring in outdoor air
- 3 Vents and ventilators to protect the attic and crawlspace

An overheated attic means higher cooling bills and a shorter lifespan for the roof. In cold weather, moisture in a poorly vented attic can also cause structural damage. Ventilate with vents, powered attic ventilators or a whole house fan for summer cooling.

Common pollutants from home, people and contents can create an unhealthy environment. Use a fan or energy recovery ventilator to remove pollutants.

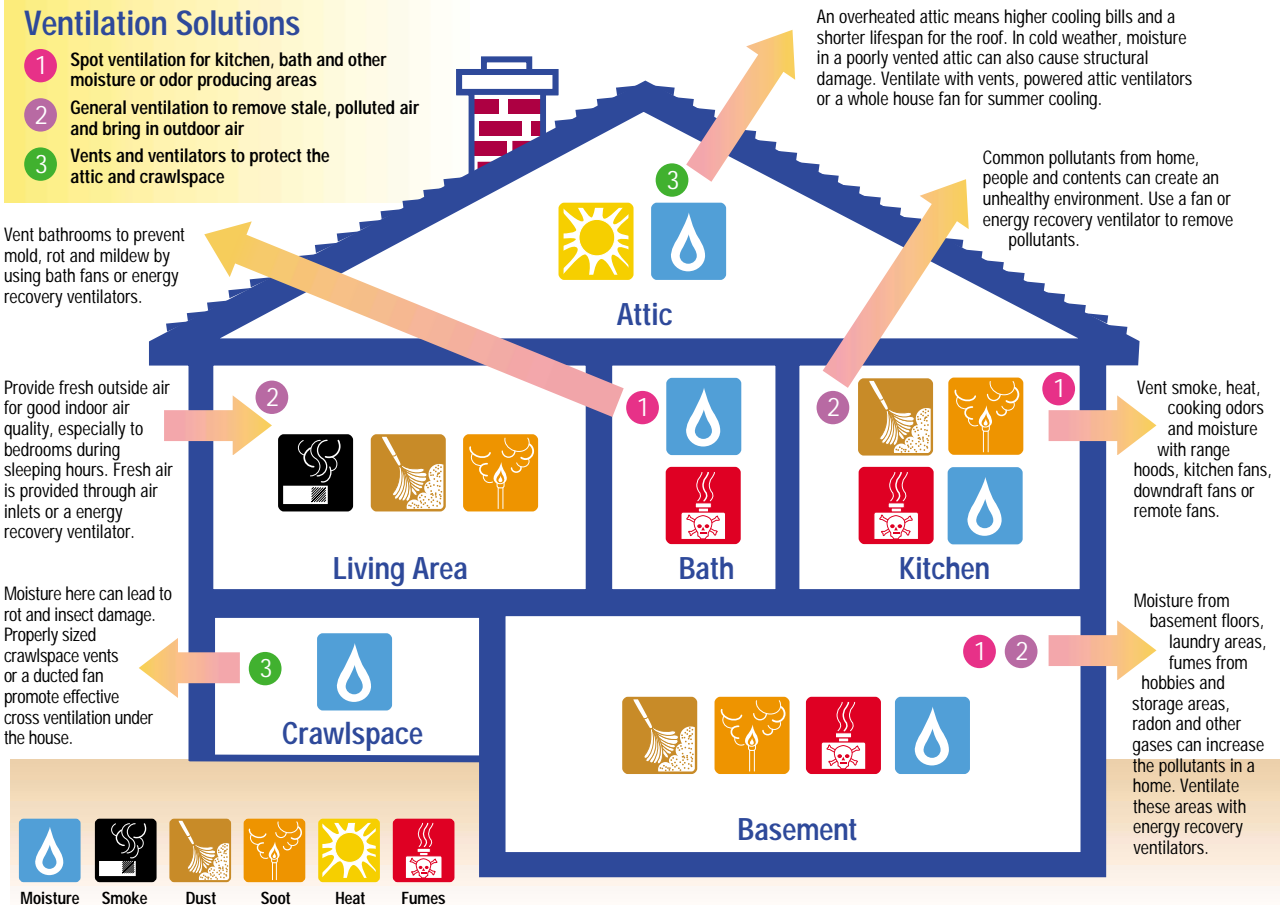
Vent bathrooms to prevent mold, rot and mildew by using bath fans or energy recovery ventilators.

Provide fresh outside air for good indoor air quality, especially to bedrooms during sleeping hours. Fresh air is provided through air inlets or a energy recovery ventilator.

Moisture here can lead to rot and insect damage. Properly sized crawlspace vents or a ducted fan promote effective cross ventilation under the house.

Vent smoke, heat, cooking odors and moisture with range hoods, kitchen fans, downdraft fans or remote fans.

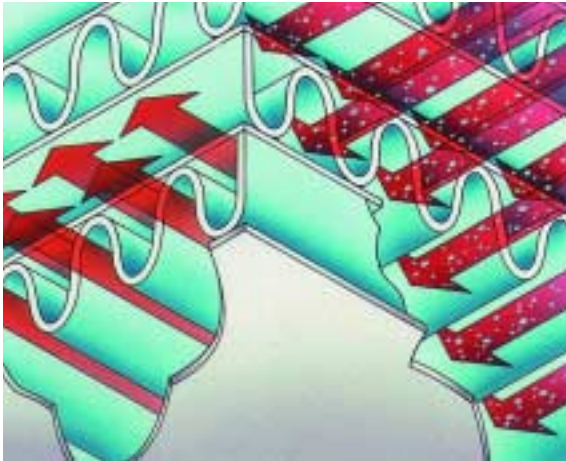
Moisture from basement floors, laundry areas, fumes from hobbies and storage areas, radon and other gases can increase the pollutants in a home. Ventilate these areas with energy recovery ventilators.



-  Moisture
-  Smoke
-  Dust
-  Soot
-  Heat
-  Fumes

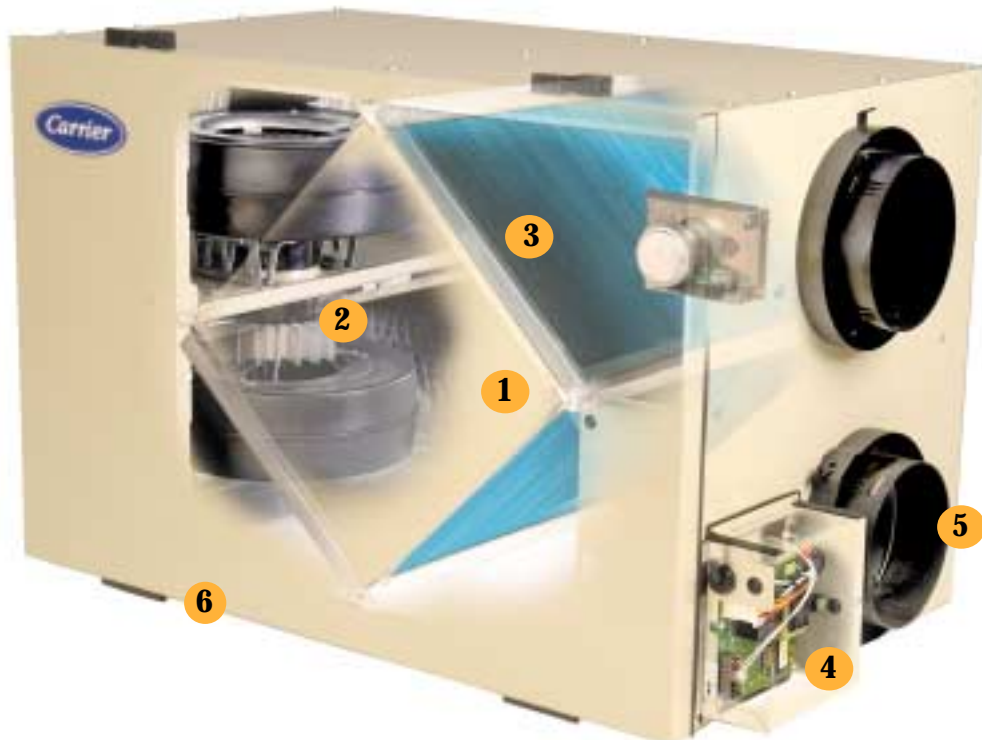
BREATHE EASY WITH A CARRIER ENERGY RECOVERY VENTILATOR.

TECHNOLOGY



This illustration shows how the central core doesn't mix the fresh air from outside with the stale polluted air from inside.

- 1 Efficiency and comfort** is ensured by the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing airstreams. The core also helps to remove unwanted humidity from air inside your home during winter, and removes the humidity from the outside air before it enters your home in the summer.
- 2 Quiet comfort and energy savings** are provided by the motor which efficiently moves air through the system.
- 3 Fresh, outdoor air is cleaned** by the filter prior to entering your living space.
- 4 Better operating control and reliability** is provided by the electronic circuit board.
- 5 Energy savings and added system reliability** is provided by the damper defrost. By periodically recirculating indoor air when temperatures drop below 23 degrees, the damper defrost helps prevent frost from forming, eliminating the need for energy-consuming supplementary electric defrost that can be found on competitive models.
- 6 Easy access to internal components** comes from the briefcase-style latches. No tools are required for removing and cleaning filters.



Energy Recovery Ventilators (ERVs)

Model #	ERVCLHU1150	ERVCLHU1200
Capacity (CFM) @ 0.5-0.3 ESP(in. wc)	117-152	182-214
Apparent Sensible Effectiveness @ 32 degrees F - percent	79	76
Net Moisture Transfer Efficiency 95 degrees F - percent	52	45
Cooling Season Total Recovery Efficiency 95 degrees - percent	45	41

This information is in the ERVC Product Data – ERV-2PD.

Units can be installed as independent systems for bathrooms or kitchens or integrated for whole house ventilation.

CARRIER INDOOR WEATHER SYSTEMS OFFER UNMATCHED PERFORMANCE.

INDOOR WEATHER SYSTEMS

Humidifier

As part of a total indoor weather system, a Carrier humidifier replenishes moisture to dry, indoor air.

Evaporator Coil

A Carrier evaporator coil is matched with the proper outdoor unit to provide top cooling efficiency and years of reliable service. If replacing your outdoor unit, Carrier recommends the replacement of the indoor section as well, to ensure peak performance and reliability.

Furnace

Carrier offers a complete line of top-quality, high-efficiency gas and oil furnaces. Ask your Indoor Weather Expert which one is right for you.

Air Cleaner

Carrier air cleaners can substantially improve your indoor weather by removing harmful and irritating airborne pollutants from your home.

Air Conditioner

A complete line of Carrier air conditioners provides reliable, high-efficiency cooling for long-lasting comfort and energy savings. Ask your Indoor Weather Expert about environmentally sound Carrier air conditioners with Puron® refrigerant.

Zoning

Comfort zoning allows you to set different temperatures for different areas of your home. Enjoy greater comfort and added energy savings with room-to-room temperature control.

Comfort Ventilator

A Carrier comfort ventilator adds a breath of fresh air to today's tightly constructed home. It combines fresh outdoor air with conditioned indoor air for improved air and energy exchanges.

Thermostat

A Carrier thermostat is your command center. Precise temperature control and programmable features keep you in touch with your comfort.



MATCHING COMPONENTS PROVIDE OPTIMUM COMFORT, EFFICIENCY AND PERFORMANCE

- Forced-air systems are usually built around an indoor unit, such as a furnace or a fan coil.
- The outdoor unit, an air conditioner or heat pump is combined with a furnace or fan coil for year-round comfort.
- Air quality is greatly improved with the addition of an air cleaner, humidifier and a ventilator.
- Precise temperature control comes from a Carrier thermostat matched to your indoor weather system.
- Zoning provides the ultimate in control over your custom made indoor weather system.

EXPERTISE

Carrier has been on the leading edge of the indoor weather industry since Willis Carrier invented what we now know as air conditioning in 1902. Since that time, Carrier scientists, engineers and dealers have been providing homeowners with the most advanced indoor weather technology available. This technological

advantage has enabled Carrier to customize indoor weather systems for millions of homeowners nationwide.

Today, you can rely on your local Carrier dealer to evaluate your indoor weather needs and suggest a customized system that fits those precise requirements. By recommending the appropriate furnace,

air conditioner, humidifier, air cleaner, ventilator, zoning system and controls, your Carrier Indoor Weather Expert can deliver enhanced comfort while improving the efficiency of your indoor weather system. Ask your Indoor Weather Expert for a system evaluation today.

WARRANTY

Carrier extends your comfort by providing written product and component warranties. The Energy Recovery Ventilator (ERV) is covered by a **five-year** parts limited warranty and a **lifetime limited** warranty on the core. Ask your Indoor Weather Expert for details.




A member of the United Technologies Corporation family. Stock Symbol UTX.

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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

Before purchasing this appliance, please read the important energy cost and efficiency information available from your dealer.



Always look for these symbols. These are seals of certified performance, efficiency and capacity.

