Following the energy crisis of the 1970s, we tended to insulate our homes and make them airtight. The result? Our homes are more economical to heat because heat losses and infiltrations are reduced to a minimum. The consequence? Everything produced inside the home remains inside and accumulates. Resulting in the deterioration of air quality.

More and more illnesses are associated with poor air quality. We have only to think of the growing number of asthma and allergy cases. The air we breathe is contaminated by all types of gases, dust, viruses and bacteria. In addition, we consume oxygen and produce gases and humidity, while not renewing the oxygen consumed.

Ventilation Solution

What system do you need? First, evaluate your problem, identify your heating system, and select one of the air quality systems offered by "Imperial Air Technologies Inc.". Installed by a ventilation specialist, any Greentek™ system will improve your comfort and air quality, while offering the peace of mind you and your family deserve.

If the ventilation solution proves to be the best way to solve these problems, we have the product you require.

Heat or Energy Recovery Ventilators (HRV or ERV)

Heat or energy recovery has become essential today, given constantly rising costs and public awareness of our non-renewable resources. Heat or energy recovery systems have been designed to recover the heat or energy contained in exhaust air.

Thanks to a balanced air-flow exchange system, the heat or energy from contaminated exhaust air passes through the recovery core, and fresh air enters through other cells absorbing that heat or energy without mixing with the exhaust air. So you benefit from healthy fresh air while you save on heating or air conditioning costs. A selection of models and controls is offered to suit your needs.

How can you know whether you need a heat or an energy recovery system? If you use a heating system more often than air conditioning, you need an HRV. If the opposite is the case, an ERV is recommended.

HRV: Contaminated exhaust air and fresh outside air pass through the heat recovery core in separate passages that prevent air contamination or mixture. The fresh outside air then absorbs the heat and warms up, and is distributed at a more comfortable temperature to the various rooms by the ventilation system.

ERV: It transfers latent energy (humidity) from the most humid air current to the driest, while transferring heat. So in winter, the outside air will absorb the exhaust air’s humidity, and in summer the reverse.

Types of Pollutants indoor air quality

<table>
<thead>
<tr>
<th>Solvents</th>
<th>Indoor air quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Households cleaning materials</td>
<td></td>
</tr>
<tr>
<td>Paint</td>
<td></td>
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<tr>
<td>Glue</td>
<td></td>
</tr>
<tr>
<td>Cosmetics</td>
<td></td>
</tr>
<tr>
<td>Particles</td>
<td>Indoor air quality</td>
</tr>
<tr>
<td>Rugs</td>
<td></td>
</tr>
<tr>
<td>Linen</td>
<td></td>
</tr>
<tr>
<td>Furniture</td>
<td></td>
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<tr>
<td>Insulation</td>
<td></td>
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<tr>
<td>Animals</td>
<td></td>
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<tr>
<td>Vapors</td>
<td>Indoor air quality</td>
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<tr>
<td>Fog</td>
<td></td>
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<tr>
<td>Cigarettes</td>
<td></td>
</tr>
<tr>
<td>Combustion</td>
<td>Indoor air quality</td>
</tr>
<tr>
<td>Propane fireplaces</td>
<td></td>
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<tr>
<td>Gas stoves</td>
<td></td>
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<tr>
<td>Candles</td>
<td></td>
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<tr>
<td>Wood space heater</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>Indoor air quality</td>
</tr>
<tr>
<td>Bathroom</td>
<td></td>
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<tr>
<td>Kitchen</td>
<td></td>
</tr>
<tr>
<td>Laundry room</td>
<td></td>
</tr>
<tr>
<td>Aquarium</td>
<td></td>
</tr>
<tr>
<td>Flowers, plants</td>
<td></td>
</tr>
<tr>
<td>Basement</td>
<td></td>
</tr>
<tr>
<td>Humans</td>
<td></td>
</tr>
</tbody>
</table>

Create a healthier indoor environment
**Quality Accessories**

For optimal performance of your HRV/ERV system.

---

**Quality Air Exhaust and Supply Accessories**

**Selection**
- Exhaust and distribution grid
- Supply vents with double collar
- Exhaust vents with double collar
- Reduced-space shoulders

**Flexible Air Ducts** *(AVAILABLE IN 4”, 5”, 6” AND 8”)*

**Selection**
- Insulated vinyl
- Aluminum foil*
- Polyester covered by insulation and a polyethylene vapor barrier*
- Miscellaneous accessories
- Telescopic pipe
*UL and ULC approved class 1 air connection

**Optional Filters**

**Selection**
- Pleated filters
- Carbon filters

---

**RD-4P model™ DEHUMIDISTAT PROFESSIONAL**

**Features**
- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Mode Control (Intermittent and Continuous Ventilation)
- Cycles per hour (0/0, 20/40 and 30/30)
- Light On Override
- Maintenance Light Reminder

**RD-4D model™ DEHUMIDISTAT DELUXE**

**Feature**
- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Mode Control (Intermittent, Recirculation and Continuous Ventilation)
- Cycles per hour (0/0, 20/40 and 30/30)
- Light On Override
- Maintenance Light Reminder

**T3 model™ PUSH-BUTTON TIMER**

**Feature**
- 20 / 40 / 60 Minutes exchange

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**High humidity level?**

Your home needs a certain humidity level to be comfortable.

The “GreenThinker model™” is equipped with low voltage connections to ensure better control even in a high humidity environment.

**Light indicator**

When should you do maintenance on your ventilation system?

Some of the “GreenThinker models™” come with a light indicator to remind you when you should check your HRV/ERV.

---

**Quality Accessories**

Using the appropriate accessories, your system will be simple to install and its performance will be optimal.

Choose from the complete range of ventilation accessories and products by “Imperial Air Technologies Inc.”

**Greentek™**

**Accessories**

Ask for a brochure on other Greentek™ Indoor Air Quality Products at a distributor near you.
Why our system is the best?

**Features**
- Selection of controls
- Selection of filters and accessories
- Compact installation
- "DuoTrol™" balancing system (patent pending)
- SLOP drain pan
- "Push Through" design
- Backward inclined motor blades
- Permanent lubrication of PSC motors
- Door opens upward
- No obstruction around the drain pan
- Simple electronic control
- Auxiliary connecting relays
- 10-year limited warranty on the ventilation motors
- Lifetime warranty on the heat recovery module
- Easy access to the control connection box
- ISF™ 6" (dia.) collar system (patent pending)
- SPM™ attachment system
- 5-year limited warranty on the enthalpic core

**Benefits**
- Operating flexibility
- Better air quality
- Maximizes your space
- Silent and economical
- Eliminates bacteria-producing stagnant water
- Silent
- Better performance
- Maintenance-free
- Easy access
- Easy to clean
- Easy to operate
- No relay necessary
- Reliable and trouble-free
- Peace of mind
- Eliminates risks of error
- Quick and simple to install
- Variable settings


## Technology and Know-how

makes it clean & simple...™

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>TPH* 7.15</th>
<th>DH* 7.15</th>
<th>DH* 10.22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>23 3/4&quot; x 21 1/2&quot; x 11 1/4&quot;</td>
<td>31 3/4&quot; x 21 1/2&quot; x 11 1/4&quot;</td>
<td>31 3/4&quot; x 21 1/2&quot; x 16 1/4&quot;</td>
</tr>
<tr>
<td>Heat exchanger (L x H x W)</td>
<td>12&quot; x 12&quot; x 10&quot;</td>
<td>12&quot; x 12&quot; x 10&quot;</td>
<td>12&quot; x 12&quot; x 15&quot;</td>
</tr>
<tr>
<td>CFM</td>
<td>30 to 160</td>
<td>30 to 160</td>
<td>50 to 220</td>
</tr>
<tr>
<td>Type of heat exchanger</td>
<td>Cross-Flow</td>
<td>Cross-Flow</td>
<td>Cross-Flow</td>
</tr>
<tr>
<td>Exchange surface</td>
<td>104 ft²</td>
<td>104 ft²</td>
<td>104 ft²</td>
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<tr>
<td>Power consumption</td>
<td>130 W</td>
<td>130 W</td>
<td>150 W</td>
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<tr>
<td>Defrost type</td>
<td>Evacuation</td>
<td>Recirculation</td>
<td>Recirculation</td>
</tr>
<tr>
<td>Certification</td>
<td>HL_i, CSAiUS</td>
<td>HL_i, CSAiUS</td>
<td>HL_i, CSAiUS</td>
</tr>
</tbody>
</table>

*Available with an enthalpic core (PE Series) **Depending on the static pressure of the forced air system.

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### Proportional Defrost operation system

On Defrost Mode, the motor speed is proportional with the outside temperature. At -5°C, the Defrost Mode will function at low speed and the more the temperature drops, the speed will increase to offer a silent operation.

### Sloped Drain Pan drainage system

Greentek® HRV/ERV units are equipped with an easy-access sloped drain pan, so that excess condensation that might accumulate inside the unit goes to the centre of the drain pan to be evacuated.

### FMA* maintenance system

In order to improve air quality and offer the best possible air quality in your home, Greentek® has developed one of the first maintenance service systems in the industry. The Filter Maintenance Adviser™ will remind you by e-mail when the filter of your HRV/ERV system must be replaced, to maximize its performance and efficiency.

### Quick and easy connection box

Greentek® HRV/ERV units are built to reduce installation time. Installation is made simple with our easy access connection box which will eliminate errors.

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Greentek® products are backed by the best limited warranty in the industry, for your peace of mind.

You benefit from a lifetime warranty on the core, a 10-year warranty on our ventilation motors, a 5-year warranty on the enthalpic core, and a 5-year warranty on all other components. So you can breathe easy.

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All Greentek® products are backed by the best limited warranty on the market.

Imperial Air Technologies Inc. reserves the right to modify a product, without prior notice, whether in design, colour or specifications, in order to offer at all times a quality product that is highly competitive.

Please consult local authorities to find out whether the installation of electrical products requires the services of a certified technician or electrician.
**Range of controls**

*GreenThinker model™*

**Easy to use**

All our “GreenThinker model™“ controls have sliding switches, making the unit easy to use. The features for the various applications of the Greentek™ ventilation system are simple to view and operate.

**Decorative element**

The attractive “GreenThinker model™“ is designed to complement any decor or indoor environment.

**Customer Service**

In addition to technical support, free of charge...

**Peace of Mind**

Ensure your comfort in the years to come by using Greentek™ systems and accessories to install any ventilation, humidification, purification or filtration product.

Need help? You benefit from certified customer service ready to guide you in the installation or operation of your Greentek™ system.

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**Patent Pending**

Technologies engineered exclusively to Greentek™ Indoor Air Quality Products.

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**Range**

The entire range of “GreenThinker model™“ controls is offered with features making your ventilation system simple, easy to operate and backed by a 5-year limited warranty.

**Features**

- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Light On Override

**RD-1 model™ DEHUMIDISTAT**

**Features**

- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Light On Override

**RD-2 model™ DEHUMIDISTAT PROFESSIONAL**

**Features**

- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Mode Control (Intermittent and Continuous Ventilation)
- Light On Override

**RD-3D model™ DEHUMIDISTAT DELUXE**

**Features**

- Dehumidistat to select the humidity level
- Speed Control (Off, Normal and Reduced)
- Mode Control (Intermittent, Recirculation and Continuous Ventilation)
- Light On Override
**System Installation**

(Example only)

**Independent system**
- FIGURE 1

**Exhaust at the source with forced air system**
- FIGURE 2

**Exhaust and supply in the return**
- FIGURE 3

**Exhaust from return and supply in supply**
- FIGURE 4

**HRV/ERV system**
- MODELS P, T AND S

**HRV/ERV system with recirculation mode**
- MODEL D - ONLY

**Push Through operation system**

The illustrations show the operation of a Greentek™ system. Outside air is pushed through the heat exchanger, which acts as a sound attenuator. This process is very silent and provides you with better home comfort.

The recirculation mode takes already-heated ambient air from a selected area, recirculates it through the unit’s filters, and distributes throughout your home. This option enables the unit to have an auxiliary air supply during the system’s defrost period in winter, and offers you better air quality without unpleasant odors.

**Color Legend**
- **flow**
  - Fresh air
  - Heated air
  - Exhaust air

**HRV/ERV**

- **Forced air system**

**Silent operation for better home comfort...™**

**R INDOOR AIR QUALITY**

**REDEFINING INDOOR AIR QUALITY**

**Bathroom**
- Control
- Floor

**Ground floor**
- Fresh air supply hood
- Exhaust air hood
- Basement

**HRV/ERV**

- Forced air system
- Exhaust air hood
- Basement

- Forced air system
- Exhaust air hood
- Basement

**Operation system**

The following illustrations show different ways of installing a Greentek™ system, depending on your needs.

Before proceeding to the installation of any ventilation system, please obtain information on applicable codes in your area.
We choose to use recyclable and non-toxic materials when ever possible.