



# Fantech

## QUICK VIEW SELECTION GUIDE



## HEAT RECOVERY & ENERGY RECOVERY VENTILATORS

IMPROVING INDOOR AIR QUALITY THROUGH BETTER VENTILATION

# Fantech Provides Ventilation Solutions To Improve Indoor Air Quality

Indoor air quality problems have soared since the late 1970's when construction technology succeeded in developing energy efficient "tight" houses. Pollutants inside houses, which once escaped through cracks around windows and doors, are now trapped inside creating an indoor environment that is often 2 to 5 times more polluted than outside. Pet dander, mold spores, dust mites, allergens, tobacco smoke and other pollutants add up to poor indoor air quality.

Fantech's new line of Indoor Air Quality Products can help you solve these problems through better ventilation. Heat Recovery and Energy Recovery Ventilators bring fresh outside air into the house while expelling stale polluted air.

Each Fantech IAQ Product is designed using state-of-the-art technology and quality components to give you long life and dependable operation. We guarantee it.

### Filters

Washable electrostatic material.

### Core

HRV: Polypropylene  
ERV: Enthalpic

**Fully Insulated Cabinet**  
1" (25mm) high density polystyrene foam.

### Superior EBM Motors

The most durable motors in the industry. 7 Year Limited Warranty.

### Electronic Control Board






State-of-the-art control boards for easy connection to existing HVAC equipment and optional remote controls.

## Selecting The Right Unit

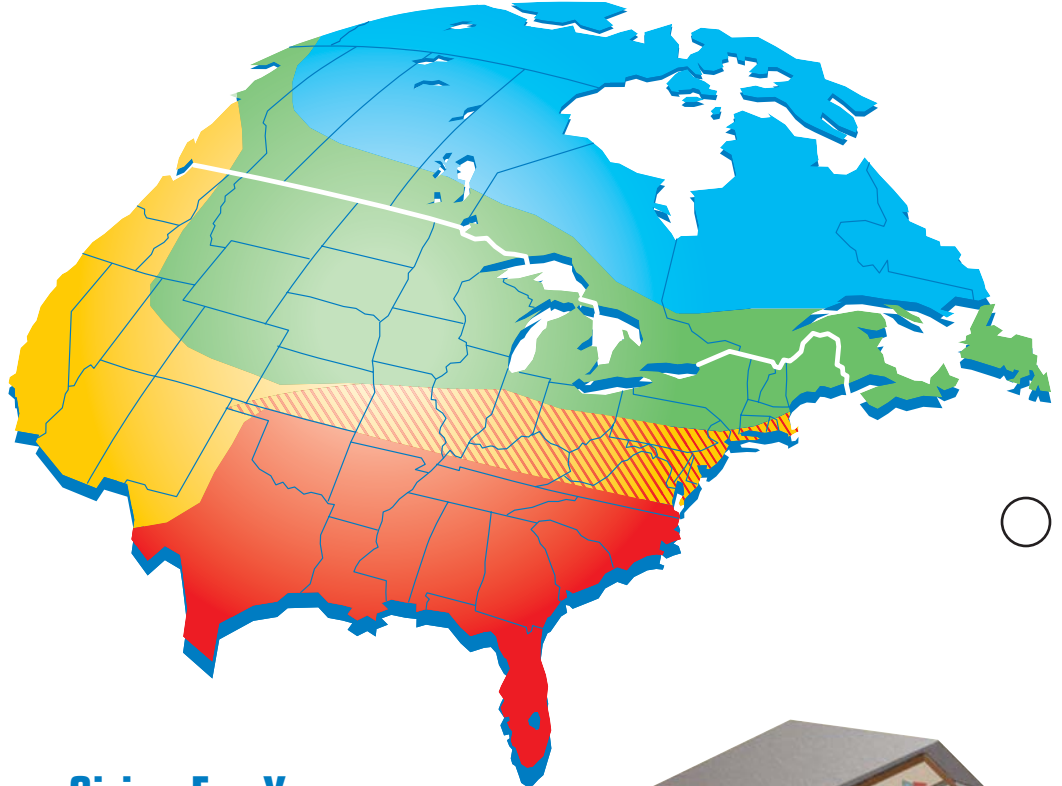
The climate conditions where you live will determine whether you need a Heat Recovery Ventilator or an Energy Recovery Ventilator.

HRVs are usually recommended for colder climates with longer heating seasons.

ERVs are used for warmer more humid climates with long cooling seasons. Use map for reference.

-  **HRV Required**
-  **HRV Recommended**
-  **HRV Recommended**
-  **HRV or ERV\* w/Defrost Recommended**
-  **ERV\* Required**

\*Note: When installing ERVs (in ERV areas according to the map), and the outdoor temperature falls below 23°F (-5°C) for more than 2 consecutive days, it is recommended that a defrost option be installed on the equipment.



## Sizing For Your Residential Needs

HRVs/ERVs are typically sized to ventilate the whole house at a minimum of .35 air changes per hour. To calculate, simply take the square footage of the house (including basement) and multiply by the height of the ceiling to get cubic volume. Then, divide by 60 and multiply by .35.

Example:

Sq. Ft. of House	1100
Basement	+1100
Total Sq. Ft.	<u>2200</u>
Height of Ceiling	x 8
Cubic Volume	17600
Minutes per Hour	÷ 60
	293
Minimum Air Changes	x 0.35
Minimum Airflow Required (CFM)	<u>103</u>












\* Always consult your local code for sizing requirements in your area.

## Sizing For Your Light Commercial Needs

For help sizing Light Commercial units, call Fantech Technical Support (see back page for contact information).



# HEAT RECOVERY VENTILATORS

	Model	Airflow Capacity cfm (L/s) @ 0.4 High Speed	Apparent Sensible Effectiveness	Defrost Type	Dim. L x W x H Inches (mm)	Warranty
	<b>SHR 1504</b>	128 (60)	72%	Fan Shutdown	23.5 x 17.4 x 16.1 (596 x 441 x 409)	*
	<b>SHR 2004</b>	160 (76)	71%	Fan Shutdown	28 x 17.4 x 20.5 (711 x 441 x 521)	*
	<b>SHR 1505R(D)</b>	128 (60)	72%	Recirculation	23.5 x 17.4 x 16.1 (596 x 441 x 409)	*
	<b>SHR 2005R(D)</b>	160 (76)	71%	Recirculation	28 x 17.4 x 20.5 (711 x 441 x 521)	*
	<b>VHR 1404</b>	97 (47)	81%	Fan Shutdown	23.75 x 17 x 16 (604 x 438 x 406)	*
	<b>VHR 2004</b>	160 (76)	71%	Fan Shutdown	28 x 17 x 20.5 (711 x 438 x 521)	*
	<b>VHR 1405R</b>	97 (47)	81%	Recirculation	23.75 x 17 x 16 (604 x 438 x 406)	*
	<b>VHR 2005R</b>	160 (76)	71%	Recirculation	28 x 17 x 20.5 (711 x 438 x 521)	*
	<b>SHR 3005R</b>	231 (109)	91%	Recirculation	50 x 17 x 22 (1270 x 432 x 559)	*
	<b>HRV-XI 450</b>	417 (197)	57%	Fan Shutdown	32.4 x 32 x 22 (822 x 816 x 556)	**
	<b>KHP 6000</b>	490 (231)	56%	Fan Shutdown	33.25 x 23.75 x 14.5 (845 x 603 x 368)	**
	<b>KHP 10000</b>	890 (420)	55%	Fan Shutdown	36 x 32.5 x 26.2 (916 x 825 x 665)	**
	<b>KHP 20000</b>	2450 (1156)	55%	Fan Shutdown	68.25 x 55 x 34 (1734 x 1397 x 864)	**
	<b>KHP 30000</b>	3660 (1727)	55%	Fan Shutdown	85 x 59 x 38 (2159 x 1499 x 965)	**





Please check HVI or Fantech spec sheets for more detailed efficiency numbers

\* Fantech Warranty on Residential Heat Recovery Ventilators:  
Motors: 7 years (limited)  
Polypropylene Core: Lifetime (limited)  
Electrical Components: 5 years (limited)

\*\* Fantech Warranty on Light Commercial Heat Recovery Ventilators:  
All Components 2 years



# ENERGY RECOVERY VENTILATORS

	Model	Airflow Capacity cfm (L/s) @ 0.4 High Speed	Total Recovery Efficiency	Defrost Type	Dim. L x W x H Inches (mm)	Warranty
	<b>SER 1504</b>	135 (64)	58%	Fan Shutdown	23.5 x 17.4 x 16.1 (596 x 441 x 409)	*
	<b>SER 2004</b>	155 (73)	66%	Fan Shutdown	28 x 17.4 x 20.5 (711 x 441 x 521)	*
	<b>SER 1504 N</b>	135 (64)	58%	No Defrost	23.5 x 17.4 x 16.1 (596 x 441 x 409)	*
	<b>SER 2004 N</b>	155 (73)	66%	No Defrost	28 x 17.4 x 20.5 (711 x 441 x 521)	*
	<b>ERV-XI 450</b>	370 (175)	58%	Fan Shutdown	32.4 x 32 x 22 (822 x 816 x 556)	**
	<b>ERV-WI 500</b>	548 (259)	80%	Fan Shutdown	56.3 x 25.7 x 32.2 (1429 x 654 x 817)	**

Total Recovery Efficiency represents test results at conditions defined by CSA 439 and tested at 95°F (35°C)

\* Fantech Warranty on Residential Energy Recovery Ventilators:

Motors: 7 years (limited)

Enthalpic Core: 5 years (limited)

Electrical Components: 5 years (limited)



\*\* Fantech Warranty on Light Commercial Energy Recovery Ventilators:

All Components 2 years

Fresh Air  
From Outside



For more information contact:



**Fantech**

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