

LIFEBREATH[®]

HEAT RECOVERY VENTILATORS (HRVs)



Bring healthy outdoor air into your home with a Lifebreath heat recovery ventilator*.

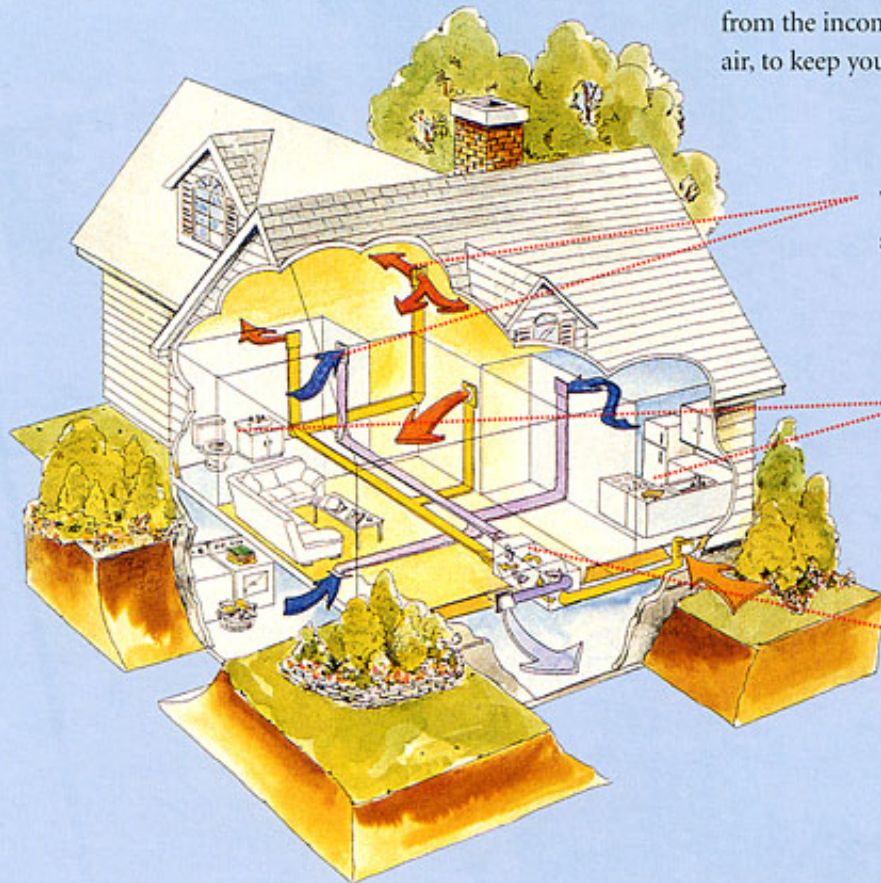
** In many regions of North America heat recovery ventilators are more commonly known as "air-to-air exchangers". These names are interchangeable.*

Lifebreath delivers fresh clean air

Our compact, electrically-powered HRV moves stale, contaminated, warm air from inside the house to the outdoors. At the same time it draws fresh oxygen-laden air from outside and distributes it throughout the house. Stale, polluted air is constantly being replaced by an equal quantity of fresh clean air.

As the two air streams pass through the unit they do not mix. They pass on either side of an aluminum heat-exchange core which transfers heat from the outgoing air to the incoming air. The efficiency of the Lifebreath HRV is so great that virtually none of the warmth collected from your home is lost to the outside.

In summer, the HRV works in reverse – removing heat from the incoming air and transferring it to the outgoing air, to keep your home cool and fresh.



Tempered fresh air is distributed through a system of ducts.

The Lifebreath HRV eliminates the need for separate exhaust fans in kitchens and bathrooms which can often be noisy and inefficient.

The Lifebreath HRV moves stale air out, replaces it with fresh air.

Not just a ventilator—a whole house system!



Programmable Ventilation Controller
Wall-mounted control unit lets you preset HRV operation. Save energy while you are out, come home to a warm house full of fresh air. Built-in Air Sentry and Dehumidistat.



Air Sentry
Optional remote air sensor monitors air quality, increases rate of ventilation to remove odours and contaminants.



Digital Electronic Timer
Touch pad to boost ventilation for a timed period – 20,40 or 60 minutes. Wall-mounted.



Remote Dehumidistat
Wall-mounted unit detects increasing humidity, controls it by boosting rate of ventilation.

to every corner of your home!

Easy-clean filters

Protect the heat exchange core.
Just rinse and replace.

Aluminum heat exchange core

Patented design, highly conductive aluminum transfers maximum amount of heat to incoming air. Nothing does as good a job as aluminum – don't settle for plastic!

Built-in dehumidistat

Automatically increases air exchange rate when humidity rises. No more weeping windows!

Easy installation

Wide selection of capacities and sizes means there's an energy efficient Lifebreath HRV for every home.

Five-speed motor

Power to spare to deal with temporary increases in humidity and contaminants. Quiet and reliable.



High Tech Defrost
Electronic control opens, closes damper to keep unit free of ice build-up.

Warranty

Lifetime warranty on the aluminum heat-exchange core; five year parts warranty from date of installation.

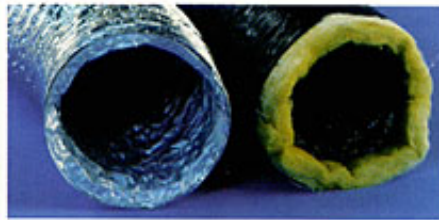


Lifebreath Engineered Accessories



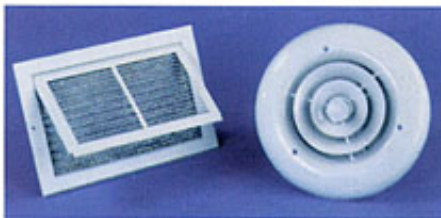
Specialty Air Filters

Electrostatic filter uses no electrical power but has a high efficiency removal of airborne particulates. Easily washed for renewed performance. **Electronic filter** uses special built-in low voltage circuitry to help collect even the finest airborne particulates. Snaps open for easy media replacement every 3-4 months.



Nuflex

A superior Underwriter's Laboratories Canada (ULC) listed Class 1 Duct. Uninsulated often used as replacement for galvanized duct. Insulated required in areas where energy conservation is important.



Specialty Grilles

Hinged kitchen exhaust grille easily flips open for access to washable aluminum air filter; 6" x 10" size in white. **Plastic step diffuser** with adjustable butterfly damper in white 6" and 8" diameter duct.



Techgrille™

Provide the finest in quiet air diffusion available. Easily adjustable openings (rotate) allow air for room flow balancing. Available to fit in 4", 5", 6" and 8" ducts. Cool white in colour.



Weatherhoods

A pair of these meshed (1/4") exterior HRV duct terminations are normally used to resist entry of small animals, rain and snow. Available in white 5", 6" and 7" diameter with special insulated flex terminations.

Selecting the Correct HRV

The home ventilation system can be sized using room counts or by using whole house ventilation. Using a whole house ventilation rate of 0.3 ACH (Air Changes per hour) the HRV cfm has been determined for the following homes (basement included in calculations).

A. Condominium – 800 sq. ft.

800 sq. ft. X 8'h = 6,400 cu. ft.

6,400 cu. ft./60 = 106 cfm

106 cfm X 0.3 ACH = 32 cfm

B. Bungalow – 2800 sq. ft.

2800 sq. ft. X 8'h = 22,400 cu. ft.

22,400 cu. ft./60 = 373 cfm

373 cfm X 0.3 ACH = 112 cfm

C. Two Storey – 4,000 sq. ft.

4,000 sq. ft. X 8'h = 32,000 cu. ft.

32,000 cu. ft./60 = 534 cfm

534 cfm X 0.3 ACH = 160 cfm

D. Two Storey – 5,500 sq. ft.

5,500 sq. ft. X 8'h = 44,000 cu. ft.

44,000 cu. ft./60 = 733 cfm

733 cfm X 0.3 ACH = 220 cfm

Specifications and Performance Quick Reference Guide

Model No.	95MAX	150SP	155MAX	200STD	200MAX	MAXTOP	200ERV	195DCS	300DCS
Airflow Wg (Pa)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)	CFM(L/S)
.1 (25 PA)	85 (40)	165 (78)	169 (80)	216 (102)	232 (109)	199 (94)	195 (92)	208 (98)	265 (125)
.2 (50 PA)	70 (33)	146 (69)	161 (76)	208 (98)	223 (105)	190 (90)	185 (87)	195 (92)	260 (123)
.3 (75 PA)	55 (26)	129 (61)	150 (71)	197 (93)	215 (102)	181 (85)	175 (83)	186 (88)	250 (118)
.4 (100 PA)	35 (17)	108 (51)	130 (61)	186 (88)	195 (92)	167 (79)	160 (76)	176 (83)	240 (113)
.5 (125 PA)	N/A	N/A	56 (26)	172 (81)	189 (89)	151 (71)	145 (68)	167 (79)	220 (104)
Effectiveness	80%	73%	83%	69%	81%	83%	80%	88%	90%
Defrost Type	Recirculate	Electric	Recirculate	Electric	Recirculate	Recirculate	N/A	Damper	Damper
Dimensions									
H x W x D (in.)	24.5x18.5x14.75"	19x31x14.75"	19x31x14.75"	19x31x14.75"	19x32.5x14.75"	25.5x22.5x26.5"	19x31x14.75"	19x49x14.75"	19x49x14.75"
(mm)	622x470x375	483x775x375	483x775x375	483x775x375	483x775x375	648x572x673	483x775x375	483x1245x375	483x1245x375
Electrical	All units are 5 speed 120VAC/60HTZ/1 Phase All units have a 5 year warranty on parts; lifetime on the heat exchange core, except the 200ERV which is 5 years for both.								

Options: All above units are capable of operating via remote low voltage controls. Check shop drawings and accessories for details. Nutech reserves the right to make changes without prior notification.

About the Company

There is a growing body of scientific evidence that the air we breathe while indoors is often even more polluted than the outside air in large industrialized cities. Further, most people spend approximately 80% of their time indoors. It follows then that indoor air pollution is a greater health risk for most people than outdoor air. Nutech Energy Systems' mission, our only mission, is improving the quality of the indoor air we all breathe; finding better ways to replace stale polluted air with fresh, clean, healthy air.

Nutech was founded in 1983 and our head office and manufacturing facilities are located in London, Ontario. Our 65,000 square foot plant has many long-time employees who take great personal pride in the first-class products they manufacture and in the friendly, responsive service they provide to our customers.

We are also extremely proud of our network of accredited wholesalers, distributors and dealers. These are the front-line organizations that sell, install and if necessary provide that all-important, but often elusive, after sales service. Nutech's rapid growth and success is in large measure attributable to their competence and commitment to our company and our products.



The Lifebreath HRV will be brought to your home by a skilled, trained local installer. He'll answer your questions about the system, plan the most effective installation, and provide you with an estimate of cost, usually at no charge and free of obligation. When you decide to bring a Lifebreath into your home the unit will be installed and set-up with a minimum of disruption. We have 75,000 Lifebreath units now installed and operating in homes such as yours.



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YOUR LIFE BREATH DEALER IS:

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