

We know air inside out

Indoor Air Quality Product Brochure

www.vanee-ventilation.com



Ventilation: A vital system for a healthy home

All homes require adequate ventilation for the safety of their occupants and to remove excess humidity, airborne pollutants and odors. As homes across the country are built and renovated with energy conservation in mind, they are more air-tight, and the need for balanced mechanical ventilation is even more obvious. Without fresh air, carbon dioxide, odors, dust, airborne pollutants and excess humidity are kept indoors, potentially causing or aggravating problems to occupants' health and comfort, and encouraging mold growth. Clearly, effective ventilation is a vital system in a healthy home. A balanced mechanical ventilation system with heat or energy recovery is an ideal way to meet both building codes and the requirements of many energy efficiency programs such as LEED®, ENERGY STAR® for New Homes, Novoclimat™, BuiltGreen™, R2000 and many more.

vänEE®: Leading the way in indoor air quality technology

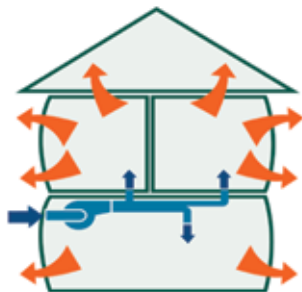
For over 30 years vänEE has redefined ventilation by combining innovative technology, expertise and quality manufacturing to offer the most advanced and extensive lines of heat and energy recovery ventilators available. Our HRVs and ERVs will meet the ventilation requirements of practically all builders, remodelers and homeowners across North America.

vänEE units can be installed with multiple air intake and air exhaust grilles so they can revitalize every corner of a home. They can easily be integrated with the existing forced-air system or be installed independently. vänEE is a symbol of quality: all units are HVI and cUL certified and most are ENERGY STAR® qualified. vänEE has been a member of the Home Ventilating Institute (HVI) since 1991, assuring customers that our products meet strict performance standards. vänEE is also a member of the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) who offers leadership and training programs for the advancement of its members' business and promotes a code of ethics for consumer protection and safety.

Before choosing a vänEE air exchanger model there are a few things homeowners and builders must consider, such as the importance of maintaining neutral indoor air pressure and how climate plays a crucial role in determining which type of air exchanger will provide the most benefit to a home's indoor air environment.

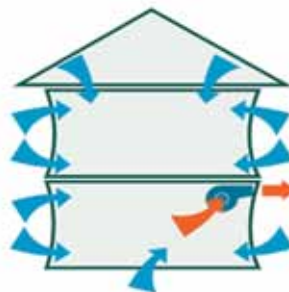
Equalizing Indoor Air Pressure: A Crucial Balancing Act

It is important not to neglect the impact of an unbalanced ventilation system. If an air exchange unit does not expel and intake equal amounts of air, a negative or positive air pressure imbalance occurs.



Positive air pressure

- Pushes hot and/or humid air into walls and insulation; condensation can lead to mold, mildew and rot
- Heat loss



Negative air pressure

- Infiltration of unconditioned air increases risks of mold and higher energy costs
- Potential backdraft from combustion appliances



Equal air pressure

- Supply airflow is equal (CFM) to stale air exhaust
- Balancing is required on all units unless specified otherwise.

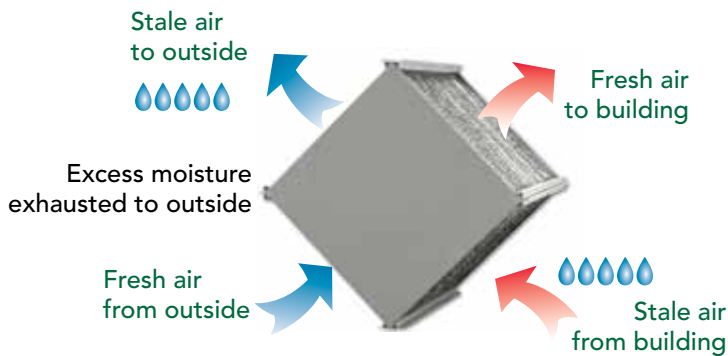


Which type of ventilator will respond best to the homeowners' environment? HRV or ERV?

Depending on your home's geographical location, you will need to install one of the following categories of air exchanger: A Heat Recovery Ventilator (HRV) or an Energy Recovery Ventilator (ERV).

HRV - Heat Recovery Ventilator - Ideal for colder climates

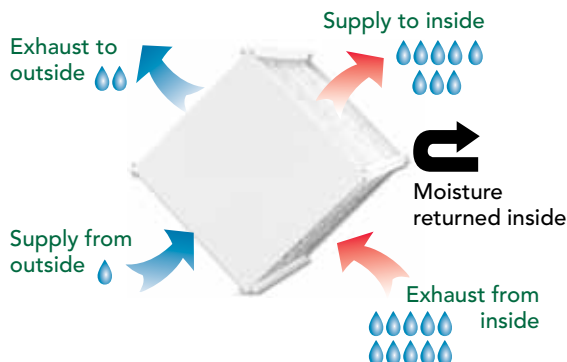
In colder climates, where home heating is essential, the heat recovery ventilator (HRV) is the proper choice. The HRV keeps the home supplied with a steady flow of fresh outdoor air. As stale, warm air is expelled, the heat recovery core warms the incoming fresh, colder air before it is distributed throughout the home. The result is a constant supply of fresh air, no unpleasant drafts and greater home comfort. In addition to heat recovery and improved air quality, the HRV provides necessary ventilation while controlling excess humidity.



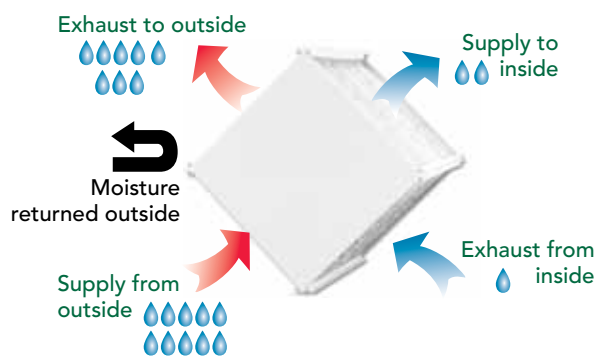
ERV - Energy Recovery Ventilator - Year-round ventilation

ERV's are suitable for all climates including those with hot, humid summers, where homes are air-conditioned and possibly dehumidified during large parts of the year. As the HRV, the ERV recovers the heat in cold season, however, it also recuperates the energy trapped in moisture, which greatly improves the overall recovery efficiency. The ERV process is as follows: In humid climates and air conditioned homes, when it is more humid outside than inside, the ERV limits the amount of moisture coming into your home. In dry climates and humidified homes, when the humidity level is reversed, the ERV limits the amount of moisture expelled from your home.

Heating Season



Cooling Season





The Ideal Air Exchanger
for Small Spaces

Model No. 44213



Model No. 44202

- Ideal for condos, lofts and small homes
- Our lowest priced HRV and ERV
- Fits almost anywhere such as a closet or above a hot water tank
- Available with horizontal or vertical ports (factory-configured)
- Quick and easy to balance and install with integrated hooks and drain fitting, chain and spring kit included
- Optional wall mount bracket available
- Quiet and efficient blower†
- Energy efficient
- Compatible with new Deco-Touch* wall control to maximize home comfort
- 2-year warranty on parts; limited lifetime warranty on HRV core and 5-year warranty on ERV core
- Washable core filters

Deco-Touch
Wall Control





Model No. 40295

* Sold separately (refer to p.10 for more details).

† Patent pending.

Vigör Series Specifications

	Model No.	Port location	Port diameter	Rate of air flow (cfm)* (low-high)	Power consumption (low speed)	Apparent Sensible Effectiveness at 0°C (low speed)	Dimensions (Height) (Width) (Depth)	Weight (approx.)
HRV	44200	Top	4" round (10.2 cm)	35-71	40 W	70%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb (13.6 kg)
HRV Plus	 44202	Top	4" round (10.2 cm)	42-73	36 W	77%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb (13.6 kg)
	 44203	Sides	4" round (10.2 cm)	42-73	36 W	77%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb (13.6 kg)
ERV	44212	Top	4" round (10.2 cm)	35-70	35 W	77%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	34 lb (15.4 kg)
	44213	Sides	4" round (10.2 cm)	35-70	35 W	77%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	34 lb (15.4 kg)

*CFM: at 0.4 inches water (100 Pa).
Refer to p.10 for a detailed list of compatible wall controls.



The most efficient and environmentally-friendly air exchangers



- Ideal for high performance small to mid-size homes
- State-of-the-art ECM motors provide significant electrical consumption savings (67% average compared to standard PSC motors)
- All aspects designed to facilitate air flow balancing and simplify installation
- No drain required for most climate zones (ERV only)
- Upgradable from a heat recovery to an energy recovery ventilator (HRV to ERV) with a simple swap of its core
- 5-year warranty on parts and core (ERV); limited lifetime warranty on HRV core
- Washable core filters



Model No. 43916

Model No. 43906

90H-V ECM Series Specifications

	Model No.	Port location	Port diameter	Rate of air flow (cfm)* (low-high)	Power consumption	Apparent Sensible Effectiveness at 0°C (low speed)	Dimensions (Height) (Width) (Depth)	Weight (approx.)
HRV	 43906	Top	oval, fit 6" round (15 cm)	40-80 53-106 66-132 80-156	24 W at 49 CFM 32 W at 81 CFM	83%	24 9/16" (62.4 cm) 23 9/16" (59.9 cm) 14 15/16" (38 cm)	52 lb (23.6 kg)
ERV	 43916	Top	oval, fit 6" round (15 cm)	40-80 53-105 67-120 84-140	26 W at 53 CFM 37 W at 84 CFM	73%	24 9/16" (62.4 cm) 23 9/16" (59.9 cm) 14 15/16" (38 cm)	65 lb (29.5 kg)

*CFM: at 0.4 inches water (100 Pa).
Refer to p.10 for a detailed list of compatible wall controls.



Bronze Series

ERV - HRV - HORIZONTAL - VERTICAL

*The complete line
of air exchangers:
economical and designed
for new construction*

Bronze 60H

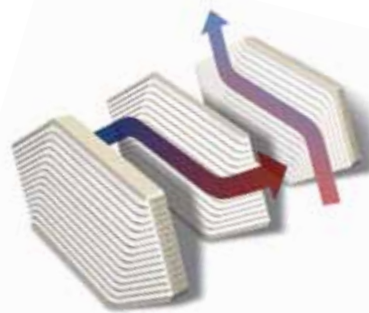


Model No.
41600

- Ideal choice for new single family small homes, high-rise condos and other limited space applications
- Simple to install in a bulkhead or closet with its unique slim design and compact footprint
- Available with horizontal or vertical ports (factory-configured)
- Upgradable from a heat recovery to an energy recovery ventilator (HRV to ERV) with a simple swap of its core
- 2-year warranty on parts; limited lifetime warranty on HRV core
- Washable foam filters



Model No. 41606



Unique ERV Core (5-year warranty)

Counter cross-flow energy recovery core technology provides the most effective efficiency/volume ratio of all the units of its category.

Model No. 1601708

Bronze 100H / 200H



- Ideal for mid to large size homes
- Offer effective heat recovery, standard ventilation features to meet codes and standards and quiet operation at a value-conscious price.
- Quick, effective installation: pressure taps, balancing dampers, integrated “snap-in” drain system and straps for insulated ducts
- Equipped with a heat recovery core (limited lifetime warranty)
- 5-year warranty on parts
- Washable foam filters










Bronze 90H-V

- Ideal for small to mid-size homes
- Same design as the 90H-V ECM but equipped with 2 PSC motors
- Homeshield™ defrosting system without negative pressure
- Heat recovery core offers greater comfort (limited lifetime warranty)
- 2-year warranty on parts
- Washable core filters



Model No. 1601630

Bronze Series Specifications

	Model No.	Port location	Port diameter	Rate of air flow (cfm)* (low-high)	Power consumption (low speed)	Apparent Sensible Effectiveness at 0°C (low speed)	Dimensions (Height) (Width) (Depth)	Weight (approx.)
60H HRV	 41600	Sides	oval, fit 5" round (12.5 cm)	39-98	37 W	76%	12 3/16" (31 cm) 27 1/16" (68.8 cm) 19 13/16" (50.3 cm)	42 lb (19 kg)
	 41602	Top	oval, fit 5" round (12.5 cm)	39-98	37 W	76%	14 11/16" (37.3 cm) 22 9/16" (57.4 cm) 19 13/16" (50.3 cm)	42 lb (19 kg)
60H ERV	 41604	Sides	oval, fit 5" round (12.5 cm)	45-105	39 W	79%	12 3/16" (31 cm) 27 1/16" (68.8 cm) 19 13/16" (50.3 cm)	45 lb (20.4 kg)
	 41606	Top	oval, fit 5" round (12.5 cm)	45-105	39 W	79%	14 11/16" (37.3 cm) 22 9/16" (57.4 cm) 19 13/16" (50.3 cm)	45 lb (20.4 kg)
100H	 1601706	Sides	6" round (15 cm)	66-150	67 W	79%	16 1/2" (42 cm) 35" (89.1 cm) 17 1/8" (43.5 cm)	65 lb (29.5 kg)
200H	 1601708	Sides	6" round (15 cm)	82-192	71 W	75%	16 1/2" (42 cm) 35" (89.1 cm) 17 1/8" (43.5 cm)	67 lb (30.4 kg)
90H-V	 1601630	Top	oval, fit 6" round (15 cm)	67-157	56 W	78%	24 9/16" (62.4 cm) 23 9/16" (59.9 cm) 14 15/16" (38 cm)	52 lb (23.6 kg)

*CFM: at 0.4 inches water (100 Pa).

Refer to p.10 for a detailed list of compatible wall controls.

Gold Series *The Complete Comfort System*



HRV 1001: Model No. 43828
HRV 2001: Model No. 45828





ERV 1001: Model No. 43808
ERV 2001: Model No. 45808

Gold HRV & ERV 1001 / 2001

- Ideal for mid to large size homes
- Offer a complete solution to reduce excess humidity and expel gaseous pollutants
- Very quiet systems
- Convertible energy and heat recovery ventilators to meet specific needs
- HRVs equipped with a heat recovery core (limited lifetime warranty) and ERVs equipped with an energy recovery core (5-year warranty)
- Optimized by the Platinum* wall control, which automatically maximizes home comfort
- 5-year warranty on parts

* sold separately

Gold Series Specifications

	Model No.	Port location	Port diameter	Rate of air flow (cfm)*	Power consumption (low speed)	Apparent Sensible Effectiveness at 0°C (low speed)	Dimensions (Height) (Width) (Depth)	Weight (approx.)
1001 HRV	 43828	Sides	6" round (15 cm)	64-146	54 W	83%	16 1/2" (42 cm) 35" (88.9 cm) 17 1/8" (43.5 cm)	65 lb (29.5 kg)
1001 ERV	43808	Sides	6" round (15 cm)	64-123	62 W	80%	16 1/2" (42 cm) 35" (88.9 cm) 17 1/8" (43.5 cm)	65 lb (29.5 kg)
2001 HRV	 45828	Sides	6" round (15 cm)	108-235	92 W	77%	16 1/2" (42 cm) 35" (88.9 cm) 17 1/8" (43.5 cm)	73 lb (33 kg)
2001 ERV	45808	Sides	6" round (15 cm)	110-201	93 W	76%	16 1/2" (42 cm) 35" (88.9 cm) 17 1/8" (43.5 cm)	73 lb (33 kg)

*cfm: at 0.4 inches water (100 Pa).

Refer to p.10 for a detailed list of compatible wall controls.

HE Series *The High Efficiency System*

HE 2000 / 3000

- Ideal for mid to large size homes
- Ultimate heat recovery performance and air flow up to 320 CFM
- SilentSure™ quiet operation
- For consumers living in cold climates who seek superior heat recovery performance compared to all other HRV systems on the market
- Optimized by the Platinum* wall control, which automatically maximizes home comfort
- Optional controls allow you to customize unit for enhanced performance
- 5-year warranty on parts; limited lifetime warranty on core
- Washable foam filters

* sold separately



Model No. 48405

Model No. 45405

HE Series Specifications

	Model No.	Port location	Port diameter	Rate of air flow (cfm)* (low-high)	Power consumption (low speed)	Apparent Sensible Effectiveness at 0°C (low speed)	Dimensions (Height) (Width) (Depth)	Weight (approx.)
2000 HRV	45405	Top	8" (20 cm) inside ports 6" (15 cm) outside ports	115-197	158 W	95%	42 3/4" (108.6 cm) 23" (58.4 cm) 24" (60.1 cm)	140 lb (63.5 kg)
3000 HRV	48405	Top	8" (20 cm) inside ports 6" (15 cm) outside ports	180-321	219 W	86%	42 3/4" (108.6 cm) 23" (58.4 cm) 24" (60.1 cm)	140 lb (63.5 kg)

*cfm: at 0.4 inches water (100 Pa).

Refer to p.10 for a detailed list of compatible wall controls.



Options

Main Wall Controls

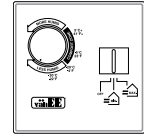
Model No.	Description	Compatibility
40295	Deco-Touch (OFF, min/max exchange speed, intermittent 20 min./hour, recirculation, dehumidistat override)	Bronze 60H (August 2008 and later), Bronze 100H / 200H / 90H-V (July 2012 and later), 90H-V ECM, Gold, HE, Vigör HRV Plus and ERV
40270	Lite-Touch Bronze (OFF, min/max exchange speed, intermittent 20 min./hour)	All Bronze units, Vigör HRV Plus and ERV
40290	Simple-Touch Bronze (OFF, min/max exchange speed, recirculation)	Bronze 60H, Vigör HRV Plus and ERV
40250	Bronze (OFF, min/max exchange speed, dehumidistat)	All bronze units, Vigör HRV Plus and ERV
40460	Platinum (Programmable, SMART mode, LCD display)	Bronze 60H units (August 2008 and later), 90H-V ECM, Gold, HE, Vigör HRV Plus and ERV



40295



40270



40250



40460

Optional Wall Controls

Model No.	Description	Compatibility
00910	60-min mechanical timer (allows up to 60 min of high speed exchange)	All units
200694	Dehumidistat (24 V / 120 V)	All units
1806110	20-min lighted push-button (20-min high speed exchange)	All units
03701	20/40/60-min lighted push-button (20/40/60-min high speed exchange)	90H-V ECM, Gold and HE units



00910



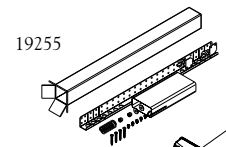
200694



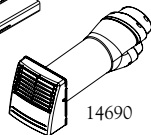
03701

Installation accessories

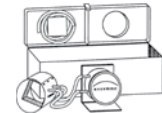
Model No.	Description	Compatibility
19255	Vigör wall mount bracket kit	All Vigör units
11988	Complete air flow balancing kit with a tool box	All units
14690	Condensed kit (Y-Tandem, complete exterior vent, screws)	Bronze 60H



11988



14690



14695

Deco-Touch



Model No. 40295

- Only three buttons for easy use
- Four operating modes: minimum, maximum, intermittent (20 minutes/hour) and recirculation (required by Quebec's Novoclimat™ program)
- Dehumidistat override in response to a preselected indoor humidity level
- Indoor humidity level display and maintenance indicator
- Animated indicators for exchange and recirculation
- LCD screen with blue backlighting activated by the touch of any button

Types of installations

Any vänEE unit can be easily integrated with an existing forced-air system (furnace) as figures 2 & 3 or can be installed independently using the fully ducted system installation (figure 1). Homeowners will be satisfied with multiple air intake and air exhaust grilles that bring exceptional ventilation into every room; not just selected areas. Whatever the installation or ventilation requirements, vänEE has the solution to ensure proper ventilation and better indoor air quality.

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.



figure 1

Exhaust Ducted System*

For homes with forced air heating systems or air handlers.

Effective because unit captures pollutants at the source.



figure 2

Simplified*

For homes with forced air heating systems or air handlers.

Easy to install as unit uses existing furnace or air handler ducting.



figure 3

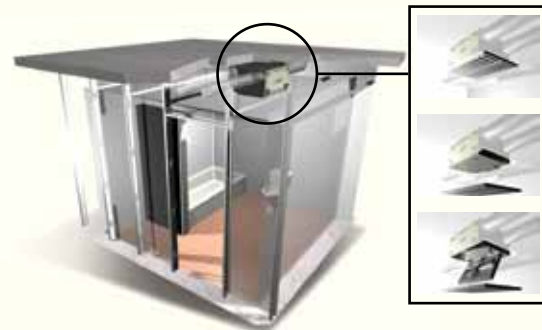
*NOTE: The installation may differ from one unit or home to another.

Bronze 60H Installations

Bulkhead Installation

Unique slim design lets you hide unit inside standard 12" bulkheads*. Easily install and access unit through ceiling grille.

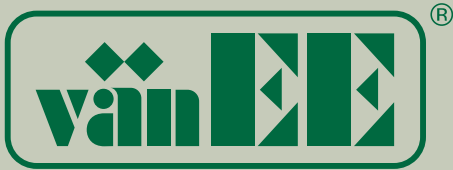
* ERV only.



Closet and Utility Room Installation

Compact footprint allows for an easy fit in mechanical rooms, closets or other applications where overall space is restricted.





We know air inside out

Leading the way in indoor air quality technology.



With many years of experience and innovation, **vănEE** is a manufacturer of residential ventilation and filtration systems, and light commercial ventilation systems, whose products are sold exclusively in Canada.

vănEE

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