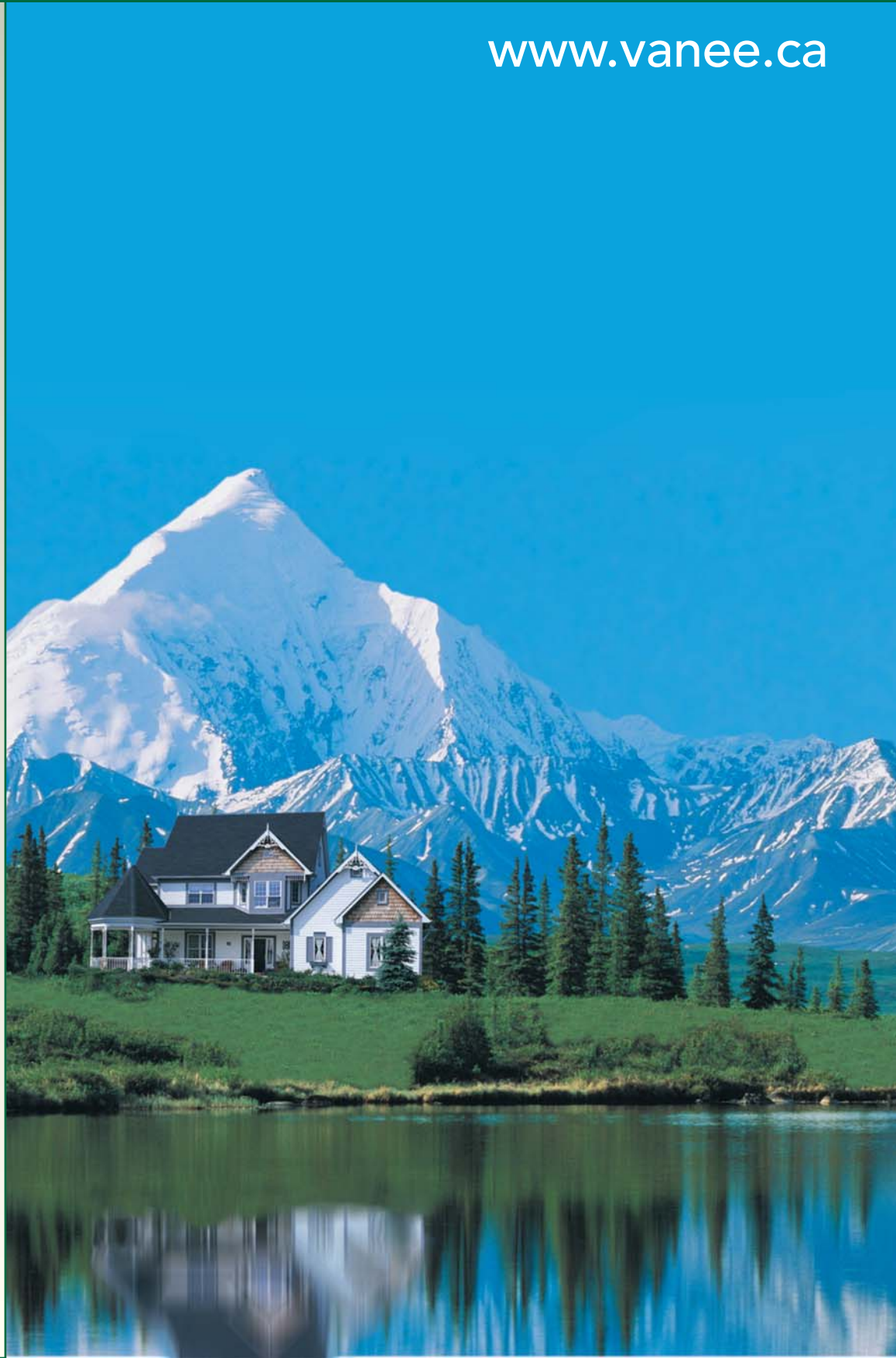


We know air inside out

# Indoor Air Quality Product Brochure

[www.vanee.ca](http://www.vanee.ca)



## 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.

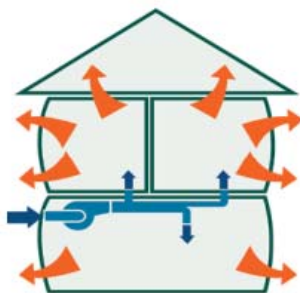
vänEE units can be installed with multiple air intake and air exhaust grilles so they can revitalize every corner of a home. They can easily be integrated with the existing forced-air system or be installed independently. vänEE is a symbol of quality: all units are HVI and cUL certified and most are 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 indoor air environment.



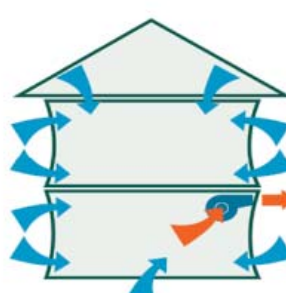
### Equalizing Indoor Air Pressure: A Crucial Balancing Act

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.



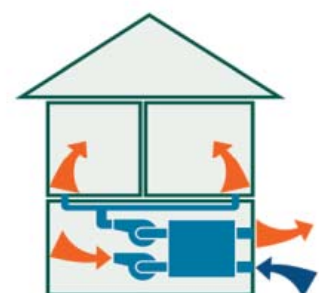
#### Positive air pressure

- 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

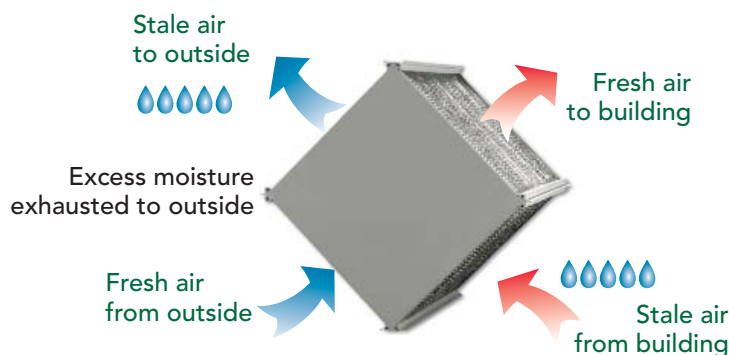
- Supply airflow (CFM) is equal to stale air exhaust
- Balancing is required on all units unless specified otherwise

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

Depending on your home 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

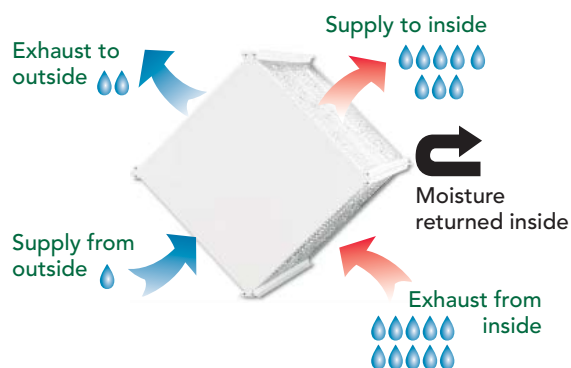
In colder climates, where home heating is essential, the heat recovery ventilator (HRV) is the proper choice. The HRV keeps the home supplied with a steady flow of fresh outdoor air. As stale, warm air is expelled, the heat recovery core warms the incoming fresh, colder air before it is distributed throughout 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.



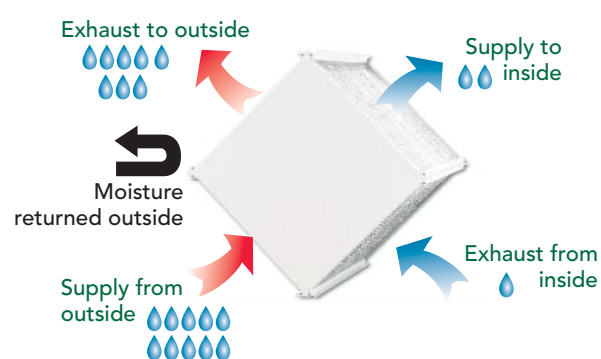
### ERV - Energy Recovery Ventilator - Year-round ventilation

ERVs 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



# Bronze Series

ERV - HRV - HORIZONTAL - VERTICAL

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

Model No. 41800



Model No. 41802

## 70E / 70E+

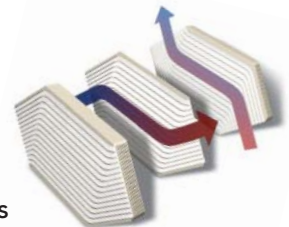
- Ideal for condos, lofts and small homes
- Ultra-slim; Only 9 inches thick. The slimmest ERV available for high-rise towers
- The most energy efficient in its class
- The only Energy Star® qualified in its category
- The quietest in its category
- Innovative snap-fit and self-damping ceiling mountings for fast and easy installation
- No drain required
- Equipped with the ColdShield™ cold protection system
- 5-year warranty on parts and ERV core
- Washable core filters

## Bronze 60H / 60H+ ERV

- Ideal choice for new single family small to mid-size homes, high-rise condos and other limited space applications
- Up to 120 CFM according to model selection
- Simple to install in a bulkhead or closet with its unique slim design and compact footprint
- Easy to balance with integrated dampers and pressure taps
- Available with horizontal or vertical ports (factory-configured)
- 2-year warranty on parts; limited lifetime warranty on HRV core
- Washable foam filters

### 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. 41600



Model No. 41606



Model No. 41656

Model No. 44602













## 40H / 40E / 40H+ / 50H

- Ideal for condos, lofts and small homes
- Up to 90 CFM according to model selection
- Our lowest priced HRV and ERV
- Fit 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
- 5-year warranty on parts and ERV core; limited lifetime warranty on HRV core
- Washable core filters



Model No. 44250

## Bronze Series Specifications

	Model No.	Port location	Port size	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.)	Quantity per Skid	
New	70E	 41800	Sides	5" round (12.7 cm)	50-100	44 W	75 %	9" (22.86 cm) 27 1/8" (68.9 cm) 20" (50.8 cm)	32 lb. (14.5 kg)	12
New	70E+	 41802	Sides	5" round (12.7 cm)	50-100	40 W	75 %	9" (22.86 cm) 27 1/8" (68.9 cm) 23 1/8" (58.7 cm)	35 lb. (15.9 kg)	12
	60H HRV	 41600	Sides	oval, fit 5" round (12.5 cm)	50-98	43 W	74 %	12 3/16" (31 cm) 27 1/16" (68.8 cm) 19 13/16" (50.3 cm)	42 lb. (19 kg)	12
		 41602	Top	oval, fit 5" round (12.5 cm)	50-98	43 W	74 %	14 11/16" (37.3 cm) 22 9/16" (57.4 cm) 19 13/16" (50.3 cm)	42 lb. (19 kg)	10
	60H ERV	 41604	Sides	oval, fit 5" round (12.5 cm)	45-105	42 W	79 %	12 3/16" (31 cm) 27 1/16" (68.8 cm) 19 13/16" (50.3 cm)	45 lb. (20.4 kg)	12
		 41606	Top	oval, fit 5" round (12.5 cm)	45-105	42 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)	10
New	60H+ ERV	 41654	Sides	oval, fit 5" round (12.5 cm)	64-120	42 W	79%	12 3/16" (31 cm) 27 1/16" (68.8 cm) 19 13/16" (50.3 cm)	45 lb. (20.4 kg)	12
		 41656	Top	oval, fit 5" round (12.5 cm)	64-120	42 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)	10
	40H	44250**	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)	18
	40E	44262	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)	18
		44263	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)	12
New	40H+	 44252	Top	4" round (10.2 cm)	37-77	37 W	80 %	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb. (13.6 kg)	18
		 44253	Sides	4" round (10.2 cm)	37-77	37 W	80 %	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb. (13.6 kg)	12
New	50H	 44600	Top	4 po rond (10,2 cm)	47-90	39 W	75%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb. (13.6 kg)	18
		 44602	Sides	4 po rond (10,2 cm)	47-90	39 W	75%	16 1/4" (41.28 cm) 15 1/2" (39.37 cm) 15 5/8" (39.69 cm)	30 lb. (13.6 kg)	12

\* cfm at 0.4 in. w.g. (100 Pa).

\*\* Dehumidistat control included with 44250 model.

Refer to p.14 for a detailed list of compatible wall controls.

40H/40E/40H+/50H: Wall mount bracket kit No. 19255 (sold separately).



Model No. 1601510  
Dehumidistat no. 40240 included.

## Air exchanger

- Ideal for bungalows or small surface areas
- Basic ventilation system, economic and robust, that controls excess humidity
- 2-year warranty on parts
- Mechanical air filtration



Model No. 1601708

## Bronze 100H / 200H

- Ideal for mid to large size homes
- Offer ventilation features to meet codes and standards 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







Model No. 1601717

## Novo+ 100H / 200H (Available only in Quebec)

- Meet the requirements of the Novoclimat™ program for homes in Quebec
- Offer a recirculation mode for a continuous airflow
- Quick and effective installation
- 5-year warranty on parts

## Bronze Series Specifications

	Model No.	Port location	Port size	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.)	Quantity per Skid
E.A.	1601510	Sides	6" round (15 cm)	50	110 W (high speed)	s.o.	12 1/4" (31.1 cm) 18 1/4" (46.6 cm) 15" (38.1 cm)	40 lb. (18 kg)	24
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)	9
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)	65 lb. (29.5 kg)	9
Novo+ 100H	 1601717	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)	9
Novo+ 200H	 1601719	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)	65 lb. (29.5 kg)	9

\* cfm at 0.4 in. w.g. (100 Pa).

Refer to p.14 for a detailed list of compatible wall controls.

# Silver Series





The most efficient and environmentally-friendly air exchangers

- Ideal for high performance small to large-size homes
- Equipped with 2 powerful and reliable PSC motors or 2 state-of-the-art ECM motors providing significant electrical consumption savings (67% average compared to standard motors)
- All aspects designed to facilitate air flow balancing and simplify installation
- No drain required for most climate zones (ERV only)
- 5-year warranty on parts and ERV core; limited lifetime warranty on HRV core
- Washable core filters



Model No. 1601620

## Silver Series Specifications

	Model No.	Port location	Port size	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.)	Quantity per Skid	
New	60H-V+ 	1601620	Top	oval, fit 6" round (15 cm)	50-105	42 W	84%	24 9/16" (62,4 cm) 23 9/16" (59,9 cm) 14 15/16" (38 cm)	52 lb. (23.6 kg)	10
New	90H-V+ 	1601635	Top	oval, fit 6" round (15 cm)	65-155	54 W	83%	24 9/16" (62,4 cm) 23 9/16" (59,9 cm) 14 15/16" (38 cm)	52 lb. (23.6 kg)	10
	90H-V ECM HRV 	43906	Top	oval, fit 6" round (15 cm)	40-80 53-106 66-132 80-156	24 W to 49 CFM 32 W to 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)	10
	90H-V ECM ERV 	43916	Top	oval, fit 6" round (15 cm)	40-80 53-105 67-120 84-140	26 W to 53 CFM 37 W to 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)	10

\* cfm at 0.4 in. w.g. (100 Pa).

Refer to p.14 for a detailed list of compatible wall controls.

# Gold Series

The Complete Comfort System



HRV 2001: Model No. 45828



HRV 1001: Model No. 43828

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 size	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.)	Quantity per Skid
<b>1001 HRV</b>	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)	9
<b>1001 ERV</b>	43808	Sides	6" round (15 cm)	60-123	62 W	80 %	16 1/2" (42 cm) 35" (88.9 cm) 17 1/8" (43.5 cm)	65 lb. (29.5 kg)	9
<b>2001 HRV</b>	 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)	9
<b>2001 ERV</b>	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)	9

\*cfm at 0.4 in. w.g. (100 Pa).

Refer to p.14 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 size	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.)	Quantity per Skid
<b>2000 HRV</b>	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)	4
<b>3000 HRV</b>	48405	Top	8" (20 cm) inside ports 6" (15 cm) outside ports	180-321	219 W	94%	42 3/4" (108.6 cm) 23" (58.4 cm) 24" (60.1 cm)	140 lb. (63.5 kg)	4

\*cfm at 0.4 in. w.g. (100 Pa).

Refer to p.14 for a detailed list of compatible wall controls.

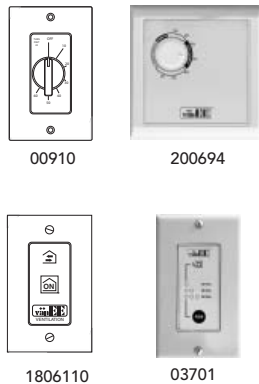
# Wall Controls

## Main Wall Controls



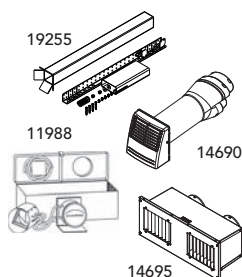
Part Number	Model	Compatibility
40250	Bronze (OFF, low/high exchange speed, dehumidistat)	60H / 60H+ ERV / 60H-V+ 40E / 40H+ / 50H 70E / 70E+ 90H-V+ 100H / 200H
40270	Lite-Touch Bronze (OFF, low/high exchange speed, intermittent 20 min./hr)	60H / 60H+ ERV / 60H-V+ 40E / 40H+ / 50H 70E / 70E+ 90H-V+ 100H / 200H
40290	Simple-Touch Bronze (OFF, low/high exchange speed, recirculation)	60H / 60H+ ERV 40E / 40H+ / 50H 70E+
40460	Platinum (Programmable, SMART mode, LCD display)	60H / 60H+ ERV / 60H-V+ 40E / 40H+ / 50H Novo+ 100H / 200H 70E+ / 90H-V+ 90H-V ECM HRV / 90H-V ECM ERV Gold 1001 HRV / 2001 HRV Gold 1001 ERV / 2001 ERV HE 2000 / 3000
40295	Deco-Touch (OFF, min/max exchange speed, intermittent 20 min./hr, recirculation, dehumidistat override)	60H / 60H+ ERV / 60H-V+ 100H / 200H (no recirculation) 40E / 40H+ / 50H Novo+ 100H / 200H 90H-V+ 70E+ 70E (no recirculation) 90H-V ECM HRV / 90H-V ECM ERV Gold 1001 HRV / 2001 HRV Gold 1001 ERV / 2001 ERV HE 2000 / 3000

## Optional Controls



Part Number	Model	Compatibility
00910	60-minute mechanical timer (up to 60 minutes of high speed operation)	All models
200694	Dehumidistat 24 V / 120 V	All models
1806110	20-minute lighted push button (20 minutes of high speed ventilation)	All models
03701	20/40/60-minute lighted push button (20/40/60 minutes of high speed ventilation)	60H-V+ 40E / 40H+ / 50H Novo+ 100H / 200H 70E+ / 90H-V+ 90H-V ECM HRV / 90H-V ECM ERV Gold 1001 HRV / 2001 HRV Gold 1001 ERV / 2001 ERV HE 2000 / 3000

# Installation Accessories



Part Number	Description	Compatibility
19255	40H / 40E / 40H+ / 50H wall mount bracket kit	40H / 40E / 40H+ / 50H units
11988	Complete air flow balancing kit in a tool box	All units
14690	Condensate kit (Y-Tandem, complete exterior vent, screws)	Bronze 60H
14695	Simplified metal installation kit (tandem)	Bronze 60H

## Types of installations

Any vänEE unit can be easily integrated with an existing forced-air system (furnace) as illustrated in 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\*

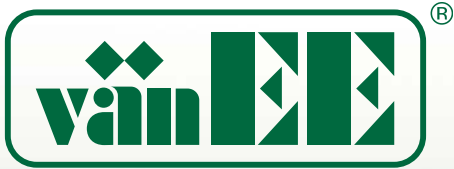
For homes with forced air heating systems or air handlers.

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

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



figure 3



*We know air inside out*

**Leading the way in  
indoor air quality technology.**



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

## **vänEE**

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