

Gold Series

# ENERGY RECOVERY VENTILATOR

## vånEE 2001 ERV Part #45808

117 to 214 CFM (0.3 in. w.g.)  
110 to 201 CFM (0.4 in. w.g.)



VB0024

### FOR RENOVATION & CUSTOM BUILT HOUSES

Designed for homeowners seeking best performance, added value, quality and a longer warranty.

Recognized for its unsurpassed quality and superior craftsmanship, the Gold Series reflects a new level of exceptional performance. It is guaranteed to satisfy the homeowner looking for durability, reliability and performance. The Gold Series: the best of the vånEE experience.

### Solid Performances

- Best heat recovery in its category
- Best airflow range in its category
- Exclusive convertible ERV (Latent Recovery Core) to an HRV
- Gold Series blower design makes the unit quieter than ever

### Superior Craftsmanship

- External electrical access side panel
- Integrated balancing dampers
- All parts removable in 5 minutes
- Aluminum framed foam filter
- Improved sliding system for core insertion
- Exclusive, deeper one piece condensation tray to prevent water leakage
- No sharp angles on metal parts
- Exclusive reinforced cabinet
- Improved defrost damper and damper mechanism, designed to operate during the toughest weather conditions
- Frost Buster™: Defrost failure protection system designed to protect against damper malfunction

### Tradition of Quality

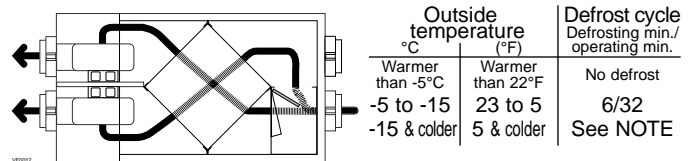
- Proven technology and mechanical simplicity for heat recovery
- Low motor temperature operation for longer life expectancy
- 5-year warranty

Available at:

### Controls and Options

- Built-in electronic circuit board ready to receive one of the following main controls:
  - Basic #40210
  - Electro #40220
- One of the following optional controls can be added:
  - 20-min. lighted push button #1806110
  - 60-min. mechanical timer #00910
  - 20/40/60-min. push button #03701
- Integrated furnace interlock relay
- Complete line of registers and diffusers available
- Electric duct heater
- On-line filters

### Defrost



### Energy Recovery Core

Dimensions: 12" x 12" x 16.75" (30.5 cm x 30.5 cm x 42.54 cm)

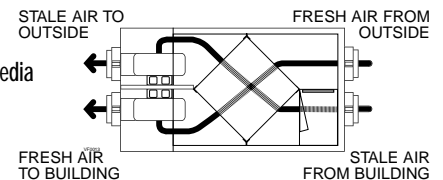
Exchange surface: 156 ft<sup>2</sup> (14.51 m<sup>2</sup>)

Weight: 10.5 lbs (4.76 kg)

Type: Crossflow

Material: Enthalpic transfer media

Warranty: 5 years



### FROST BUSTER™: The Smart Defrost System

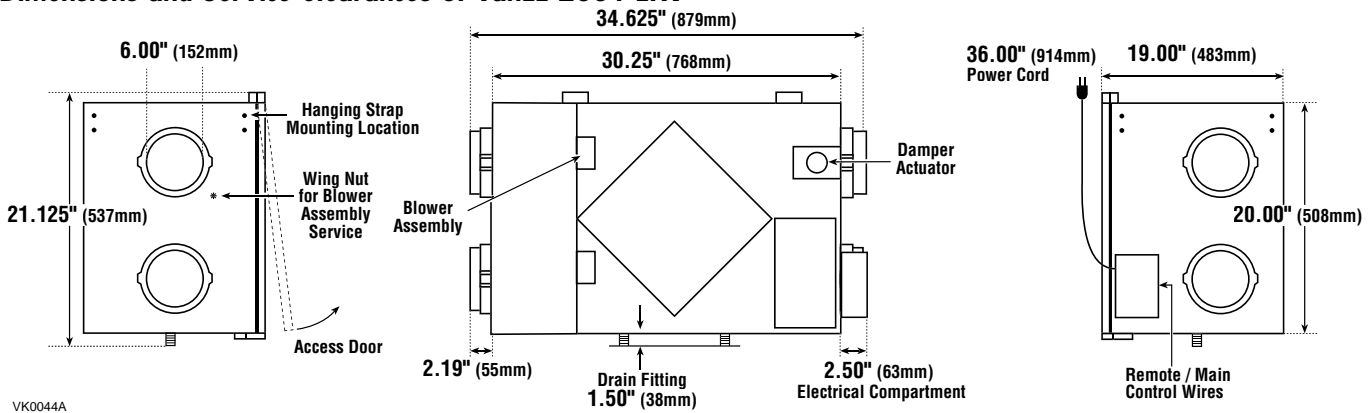
The Gold Series uses a defrost failure protection system that prevents the unit from allowing cold air to enter into the house. In the event of a damper motor relay or damper motor mechanism malfunction, the air entering the house from the core could be colder than -10°C (14°F). To avoid excessive cold air throughout the house or damage to the unit, the failure protection system will shut down the unit and the air exchange LED will flash to signal the failure. In case of minor problems, the system will command a second defrost sequence and a third if necessary before shutting down the unit when the temperature has not risen above +5°C (41°F).

NOTE: The enthalpic core requires extra protection when the outside temperature drops below -15°C (5°F). Therefore, under these conditions, the unit will run 20 minutes at low speed, followed by 6 minutes in defrost and 34 minutes at "off" for every hour, until the exterior temperature becomes warmer.

### Requirements and Standards

- Complies with the CSA C22.2 #113 Standard applicable to ventilators.
- Complies with the CSA C444 requirements regulating the installation of Energy Recovery Ventilators.
- Technical data was obtained from published results of tests relating to CSA C429 Standards.
- HVI certified.

# Dimensions and Service Clearances of vanEE 2001 ERV

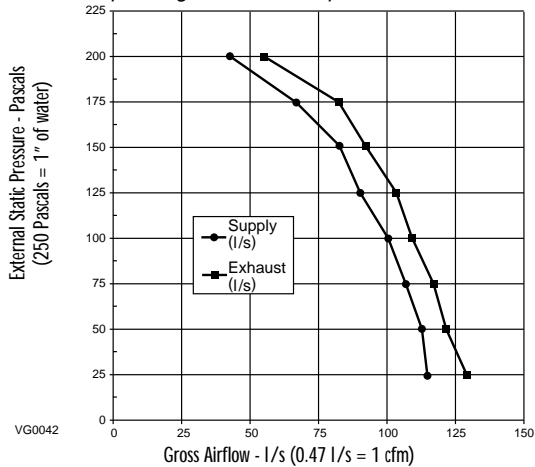


VK0044A

## Ventilation Performance

External Static Pressure	Net Supply Air Flow	Gross Air Flow					
		Supply		Exhaust			
Pa	in. w.g.	l/s	cfm	l/s	cfm	l/s	cfm
25	0.1	109	231	116	245	128	271
50	0.2	107	228	114	241	123	260
75	0.3	101	214	107	227	118	249
100	0.4	95	201	101	213	110	233
125	0.5	86	182	91	193	103	217
150	0.6	79	167	83	177	92	195
175	0.7	62	132	66	140	81	172
200	0.8	40	85	43	90	55	116

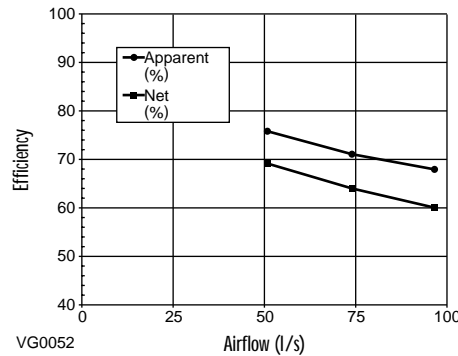
Note: Unit operating at maximum speed.



**HVI**  
CERTIFIED  
Data as per ORTECH

## Energy Performance

	Supply Temperature		Net Airflow		Average Sensible Power	Recovery Efficiency	Apparent Sensible Effectiveness	Latent Recovery Moisture Transfer
	°C	°F	l/s	cfm	Watts	%	%	
HEATING	0	32	52	110	93	69	76	0.45
	0	32	74	157	130	64	71	0.38
	0	32	96	203	193	60	68	0.30
	-15	5	52	110	122	55	76	0.26
Total recovery efficiency								41
COOLING	35	95	50	106	89			



**HVI**  
CERTIFIED  
Data as per ORTECH

## Specifications and Ratings

- Model: vanEE 2001 ERV
- Part Number #45808
- Total Assembled Weight:
  - With enthalpic transfer media core: 73 lbs (33 Kg)
- Supply Air Duct Connections: 6" diameter
- Exhaust Air Duct Connections: 6" diameter
- Drains: 1/2" fittings
- Filters: 30 ppi washable reticulated foam
  - 11.75" x 16.75" x 0.75"
  - (29.85 x 42.55 x 1.9 cm)

- Cabinet: 20 ga. pre-painted steel
- Insulation: 1.00" aluminum foil faced fiberglass
- Mounting: Reinforced rubber straps (or chain) and hardware provided to suspend unit
- Supply & Exhaust Blower Motors:
  - Voltage: 120 volts
  - Hz: 60 Hz
  - HP: 1/7
  - RPM: 1630/1300/1040
  - Bearings: Sleeve bearings

- Type: PSC
- Fan Speed Control:
  - Low, increased low speed & high
  - Two speeds available to user.
  - Low or increased low speed is selected at the time of installation.
- Unit Electrical Characteristics:
  - Voltage: 120 volts
  - Power: 202 watts
  - Current: 1.9 amps

**UL**  
LISTED

NOTE: All specifications are subjected to change without notice.

Submitted by:		Date:	Project:
Qty:	Model #:	Remarks:	Location:
			Architect:
			Engineer:
			Contractor:



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