

Purify your world

Bring a breath of fresh air to your business with vänEE light commercial ERV and HRV solutions—the energy-efficient choice for optimal indoor air quality.



NO STRESS

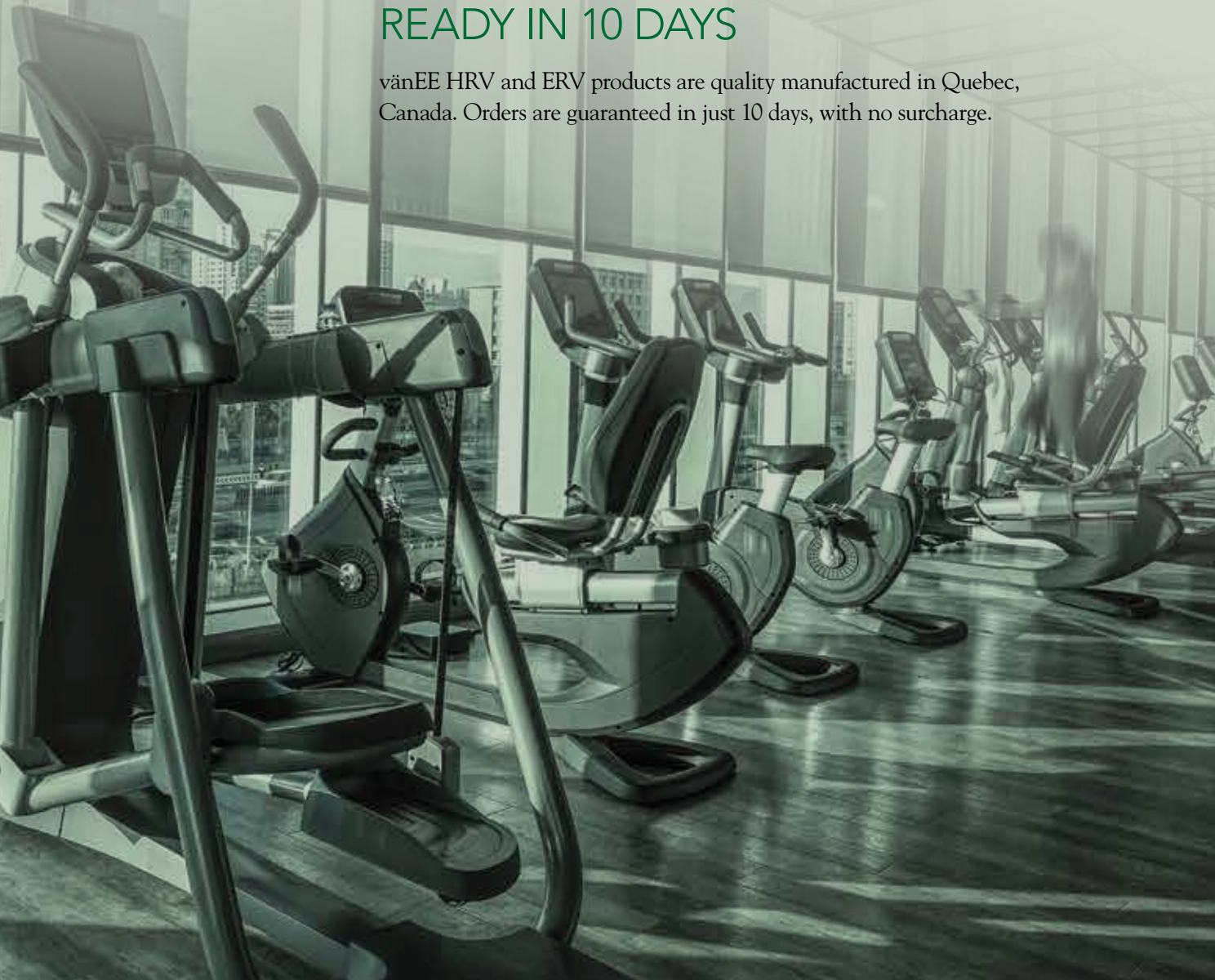
vänEE's robust energy and heat recovery ventilators are designed to provide year-round comfort with virtually no cross leakage. With several thousands of units sold in North America, our ERVs and HRVs have an outstanding track record for trouble-free performance and come with a minimum 2-year warranty.

ENHANCED HEALTH AND COMFORT

vänEE ERVs and HRVs provide ventilation, boosting energy efficiency and enhancing comfort while at the same time fighting odors and helping keep germs and indoor air pollutants at bay.

MADE IN CANADA, READY IN 10 DAYS

vänEE HRV and ERV products are quality manufactured in Quebec, Canada. Orders are guaranteed in just 10 days, with no surcharge.



THE BEST WAY TO ENHANCE INDOOR AIR QUALITY

Effective ventilation with high CFM air flow is a must for small business owners who want to optimize indoor air quality at their premises. Not only do vānEE energy and heat recovery ventilators decrease odors, reduce the risk of virus transmission, and evacuate toxic vapors from cleaning and chemical products, they increase all-around air quality in any setting.



OFFICE SPACES

- Improves comfort and productivity
- Reduces irritant vapors from equipment like printers
- Reduces risk of health issues related to poor air quality

DOCTOR'S/DENTIST'S OFFICE

- Reduces mercury and chemical vapors
- Reduces fine particulates and microbes as well as small particles of airborne metal, porcelain, and ceramic

FITNESS CENTERS

- Enhances air quality for better breathing recovery during exercise
- Reduces particulates and chemicals from fitness equipment

DAYCARE CENTERS

- Reduces chemicals, toxins, and germs
- Ensures the best air quality for children

VETERINARY/DOG KENNELS

- Reduces risk of airborne diseases
- Helps eliminate microbes and cleaning product vapors

BEAUTY/NAIL SALON

- Reduces toxic vapors from peroxide, acetone and other chemical products
- Reduces risk of respiratory ailments and other health issues

HRV OR ERV? WHICH SOLUTION IS BEST FOR YOU?

Heat recovery ventilators (HRVs) are the solution of choice in spaces where excess moisture can accumulate in indoor air due to heating or business operations, especially in colder climates. HRVs reduce moisture, making them ideal for fitness centers, beauty salons, spas, bars, swimming pool complexes, and more.

Energy recovery ventilators (ERVs) are recommended in two situations: 1) air-conditioned spaces where exterior humidity is high, and 2) heated spaces where interior humidity is low. In warm climates with high humidity, ERVs improve comfort and save energy by limiting the amount of moisture entering a building along with exterior air. In a heated space where humidity is low in winter, the ERV system limits the amount of moisture expelled with indoor air. Offices, medical centers and daycare centers can all benefit from an ERV.



HRV AND ERV

PLATFORM	CONTINUOUS AIR FLOW (CFM AT 0.4 W.G.)	DIMENSIONS (H x W x D)		LIMITED WARRANTY	HRV EFFICIENCY	ERV EFFICIENCY
V6LC	560-690 (min.-max.)	EXHAUST DEFROST 25 in. x 34 in. x 28 in. 149 to 170 lb.	RECIRCULATION DEFROST 25 in. x 49.55 in. x 28 in. 197 to 231 lb.	2 years on parts 15 years on HRV core 5 years on ERV core	Up to 66%	Up to 66%
V12LC	890-1170 (min.-max.)	EXHAUST DEFROST 25 in. x 34 in. x 42 in. 186 to 231 lb.	RECIRCULATION DEFROST 25 in. x 49.55 in. x 42 in. 247 to 269 lb.		Up to 60%w	Up to 66%

UNIT FOR HIGH HUMIDITY ENVIRONMENTS

PLATFORM	CONTINUOUS AIR FLOW (CFM AT 0.4 W.G.)	DIMENSIONS (H x W x D)	LIMITED WARRANTY	HRV EFFICIENCY
7000	400-700 (min.-max.)	37 in. x 47 in. x 21 in. 210 lb.	2 years on parts 15 years on HRV core	Up to 78%

HOW TO CHOOSE YOUR UNIT

All of our light commercial HRVs and ERVs can be easily sized, selected and configured using the ASHRAE chart and your local building code. You can quickly and accurately select the vanEE solution optimized for your application and your performance and budget goals.

TABLE 6-1 MINIMUM VENTILATION RATES IN BREATHING ZONE

(Use this table in conjunction with the accompanying notes. refer to the ASHRAE 62.1.)

OCCUPANCY CATEGORY	OCCUPANT DENSITY #/1,000 sq. ft. or #/100 m ²	COMBINED OUTDOOR CFM/PERSON
Daycare (through age 4)	25	17
Restaurant dining room	70	10
Beauty or nail salon	25	25
Office space	5	17
Pet shop (animal area)	10	26
Fitness center (aerobics room)	40	22

Ventilation rates vary by application, amount of moisture (potential moisture) and IAQ (or potential IAQ issues) in the building.

TIPS: HOW TO CALCULATE YOUR VENTILATION RATE

STEP 1 Calculate building volume (square footage × average ceiling height)

Example:

$$35 \text{ ft.} \times 50 \text{ ft.} = (1,750 \text{ sq. ft.}) \times 16 \text{ ft.} = 28,000 \text{ cu. ft.}$$

STEP 2 Calculate air changes per hour (ACH)

Convert the cubic feet of air/hour to cubic feet/minute

35 ft. × 50 ft. building example:

$$.50 \text{ ACH } (28,000 \text{ cu. ft.}) / (60) \times (.50) = 233 \text{ CFM}$$

$$1.0 \text{ ACH } (28,000 \text{ cu. ft.}) / (60) = 466 \text{ CFM}$$

$$2.0 \text{ ACH } (28,000 \text{ cu. ft.}) / (60) \times (2.0) = 933 \text{ CFM}$$

WALL CONTROL COMPATIBILITY



**Basic
40210**

The basic 40210 wall control features two operating modes (minimum and maximum) and a dehumidistat switch.



**Dehumidistat
11297**

This graduated wall control removes excess humidity during fall, winter and spring.



**Pool Plus™
202749**

This optional wall control is suitable for the 7000 series air exchanger that was designed to resist corrosion.



**60 min timer
00910**

This timer can be set for up to 60 minutes of high-speed operation.

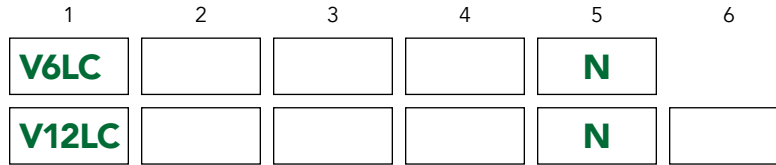
Remote fan control can be achieved by connecting dry contact controls to the terminal interface at terminals labeled: LOW - COM - HIGH (SPDT switch, dehumidistat, CO₂ sensor, light sensor, timer, building management system, etc., supplied by others.)

CERTIFICATION

All vanEE light commercial HRVs and ERVs have been tested and approved by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and are certified to meet AHRI performance requirements.



BUILD YOUR OWN UNIT



1

BASE UNIT

V6LC HRV and ERV

V12LC HRV and ERV

2

FROST CONTROL

D Recirculation defrost

For applications where defrost cycle does not create negative indoor air pressure

(When ordered, the recirculation defrost damper module is factory installed)

E Exhaust defrost

Defrost within pressure

(Perfect for zoning installation applications)

3

CORE MATERIAL

P Polypropylene

A Aluminum

H Polymerized paper ERV HM

(Not for all configurations; please contact a sales representative for more details)

According to preference

4

ACCESS DOOR

S Standard

R Reversed (right hand flow)

According to the position of your duct connection, you select the option you need for greater installation flexibility

5

LOW SPEED

N Normal low speed

6

PACKAGE

C Corrosion resistant

For large indoor swimming pools or high humidity applications

(Not recommended with aluminum core or ERV)

W White prepaint

A GUARANTEE OF QUALITY

Thanks to our ongoing innovation, our attention to detail, our all-round manufacturing quality and our understanding of customers as well as building and HVAC contractors needs, vanEE has been the industry leader for over three decades. vanEE products have become legendary for their performance, reliability and long service.

Authorized dealer



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