THE BEST JUST GOT BETTER









BUILD

Automatic Fresh Air Measurement & Control

Integrated pollutant sensors automatically activate fresh air ventilation



Fresh Air Ventilation & Recirculation Modes

Recirculation adds heating or cooling to unify comfort and indoor air quality



Heat Pump Energy Recovery & Conditioning

Energy Exchange with active heating, cooling, and dehumidification



Variable Speed Compressor & ECM Fans

Superior efficiency with variable speed compressor and fan control



Elegant Controls & Internet Connected

Easy to use color touchscreen controller with internet control and monitoring



Designed & Built in the USA

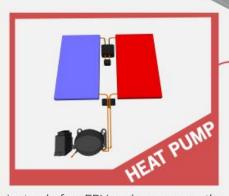
Manufactured in a 100% solar powered facility in Urbana, Illinois



The CERV uses the latest ECM fan technology to deliver fresh air efficiently and quietly. The CERV's intelligent controls maximize fresh air delivery, ensuring your home stays fresh, comfortable, and healthy.



The CERV 's filter access panel allows the homeowner easy access to inspect and replace both indoor and outdoor filters. The CERV accepts standard 10x20 size, with your choice of filtration. MERV 13 comes standard with the unit.



Instead of an ERV exchanger core, the CERV uses a high efficiency heat pump to exhange energy between incoming supply and outgoing exhaust air.

What does this mean?

Conditioned, comfortable air unifies the home instead of dragging exterior rooms away from comfort. In the summer, the CERV also helps with dehumidification



A built in 3.5" full color capacitive touchscreen makes interaction with the CERV a pleasure. Monitor your indoor air quality, change your setpoints, and configure the CERV to best suit your home and lifestyle with ease.

INDOOR AIR QUALITY

The CERV monitors both CO2 and Volatile Organic Compound (VOC) levels inside your home to determine when ventilation is necessary. Many gasses are undetectable to the human nose,

yet can cause significant impairment to health, cognition, and sleep quality. Even though you can't smell them, the CERV can.

COMFORT



While the CERV is small in capacity, it's capabilities are anything but. By measuring indoor and outdoor temperature and relative humidity levels, the CERV knows the most efficient way to keep your home healthy and comfortable

ONLINE CONTROL & MONITORING

The CERV is the only system that gives you the information you need to know that your family is breathing the highest quality air. CERV-ICE online control and monitoring allows you to check your air quality and change settings and setpoints from anywhere in the world using your mobile device. You can also view and download historical temperature, relative humidity, and indoor air quality data. CERV-ICE comes standard and has no monthly fee!



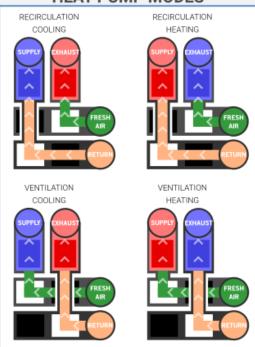




CERV-ICE DASHBOARD

CERV-ICE HISTORICAL DATA

HEAT PUMP MODES



CERV OPERATION MODES



You wouldn't buy a car without a speedometer, so why buy a ventilation system that doesn't measure air quality? Indoor air pollutants must be measured for efficient management, and the CERV does just that. Built-in CO2 and VOC (volatile organic compound) sensors automatically measure and maintain excellent air quality in your home. Your family's health is too important for guesswork.

Energy recovery taken to a new level. The CERV's super-efficient inverter drive heat pump technology surpasses traditional ERV/HRV systems. When you're stuck inside on the coldest day of the year, you need fresh air the most - the CERV has no low temperature operation restrictions, so the fresh air can keep flowing. Home occupants in warm/humid climates will appreciate the CERV's ability supply cool, dehumidified fresh air to the house. If that wasn't enough, the CERV's unique recirculation mode provides additional conditioning when fresh air is not needed, significantly improving comfort. If you have a heat pump water heater or heat pump dryer, you will be pleased to know that the CERV has two utility ducts. Even with small utility rooms, they will no longer be overcooled/over-heated, as the CERV's utility ducts can provide much needed airflow to these areas.

Innovative controls further set the CERV apart from other ventilators. Built with the **user experience** in mind, our color touchscreen controller is easy to read and **simple to use**. For users interested in web connected devices, the CERV's built in Wifi gateway called CERV-ICE opens up a world of **ventilation control never before seen**. Control your CERV from anywhere, access archived data, receive system notifications and updates, read your home health reports, and more! All from your computer, tablet, or mobile device.

	"Natural" Ventilation	HRV Heat Recovery Ventilator	ERV Energy Recovery Ventilator	CER V2
Sensible Energy Recover	y X	✓	✓	✓
Conditioned Air Delivery	X	X	X	✓
CO ₂ Monitor & Control	X	+\$	+\$	✓
VOC Monitor & Control	X	+\$	+\$	✓
Recirculation & Mixing Mode		X	X	✓
Utility Duct Energy Mixing	X	X	X	✓
Online Control & Monitoring	X	+\$	+\$	✓
Home Health Feedback Repor	ts 🗶	X	X	✓

Electrical

Voltage Supply	120V (60hz)	
Minimum Circuit Size	15 A	
Connection	Standard NEMA 5-15P Plug, 6ft cord	

Warranty

5 Years

System

Airflow Rate	100-250 CFM
Air Filter Size	10"x20"x1"
Duct Size	8" Main 3" Utility
Condensate Drain	3/4" PVC
Heating Capacity	Coming Soon
Heating Efficiency	Coming Soon
Cooling Capacity	Coming Soon
Cooling Efficiency	Coming Soon

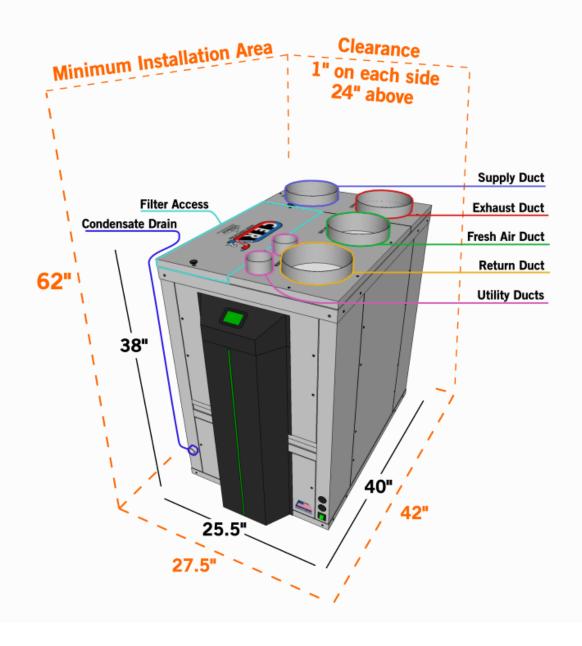
^{*}Heating and cooling capacities vary based on inside and outside conditions

Sensors

Temperature	- 40 to 185F +/- 0.36F	
Relative Humidity	0 to 100% +/- 2%	
CO ₂	0 to 5000ppm +/- 25ppm +/-3%	
VOC	450 to 2000ppm CO2 Equivalent	

VOCs Detected

Alcohols, Aldehydes, Aliphatic Hydrocarbons, Amines, Aromatic Hydrocarbons, CO, CH4, LPG, Ketones, Organic Acids



Wireless Low-Power EnOcean Devices



Battery Free Ventilation Switches

Remote Switches trigger timed fresh air ventilation Individually configurable for CFM, zone, and length Ideal for Bathroom & Kitchen Venting Available in many colors



Active Circuit Transmitter

Monitors circuit for activity, vent when active Individually configurable for CFM, zone, and length Ideal kitchen vent hoods



Remote Temperature & RH

Remote measurement for bedrooms & bathrooms

RH may be used to trigger ventilation

Solar powered, no batteries required!



Remote Temperature, RH, & CO₂

Remote measurement for bedrooms & bathrooms RH and CO₂ may be used to trigger ventilation Solar powered, no batteries required!



Remote Ductless Minisplit Controller

Use the CERV's intelligence to manage remote spaces
Heating, Cooling, and Dehumidification control
Simple installation, no need to take apart minisplit

Wired Add-Ons



Ground Loop Heat Exhanger

Pre-heating and pre-cooling for the CERV Boosts capacity and efficiency Smart algorithms activate when beneficial



I/O Expansion Board

Adds 6 dry contact/24VAC outputs

Adds 3 dry contact/24VAC sense inputs

Control external heating, cooling, ventilation, moisture control, GEO-Boost, & more!

Simple installation & configuration



Zone Damper Control

Optimize your home's air delivery system
Targeted pollutant removal from areas
Pairs well with wireless ventilation switches
Supply fresh air to areas with greatest need
*May require I/O Expansion Board



Inline Duct Heater

Best for backup heat in climates with low loads 2.5kW and 5kW versions available Installs easily with standard ductwork.

Other Options



Insulated & Uninsulated Filter Box

Insulated filter box protects from sweating and energy loss with R-8 insulated, thermally broken housing

Accepts 10"x20"x1" filter with your choice of rating

Good for locations with long ductwork before the CERV

Provides easy access for remote CERV installations



Duct Silencer

Many duct sizes available

Significantly reduces fan/duct noise

Easy installation

Great for large homes with extensive ductwork requiring high airflow



1-773-492-1893



Build Equinox's 100% solar powered facility Urbana, IL

