

MAKE YOUR HOUSE A HEALTHY HOME WITH



SMART VENTILATION



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

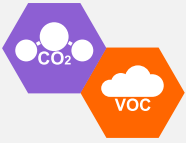


Designed & Built in the USA

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

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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.

COMFORT

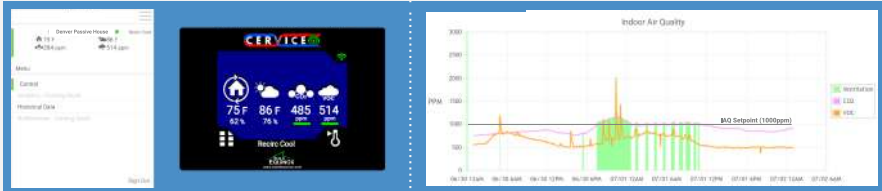


By measuring indoor and outdoor temperature and relative humidity levels, the CERV knows the most efficient way to keep your home healthy and comfortable

FREE ONLINE CONTROL & MONITORING



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. CERV-ICE comes standard and has no monthly fee!



CERV-ICE DASHBOARD

CERV-ICE HISTORICAL DATA



NOT YOUR ORDINARY ERV

	"Natural" Ventilation	HRV Heat Recovery Ventilator	ERV Energy Recovery Ventilator	
Sensible Energy Recovery	✗	✓	✓	✓
Conditioned Air Delivery	✗	✗	✗	✓
CO ₂ Monitor & Control	✗	+\$	+\$	✓
VOC Monitor & Control	✗	+\$	+\$	✓
Recirculation & Mixing Mode	✗	✗	✗	✓
Online Control & Monitoring	✗	+\$	+\$	✓
Home Health Feedback Reports	✗	✗	✗	✓

SPECIFICATIONS

Electrical	
Voltage Supply	120V (60hz)
Minimum Circuit Size	12 A
Connection	Standard NEMA 5-15P Plug, 6ft cord

System	
Airflow Rate	100-300 CFM
Air Filter Size	10"x20"x1"
Duct Size	8" Main
Condensate Drain	3/4" PVC
System Weight	6EC:139lbs 8EC:142lbs

Sensors	
Temperature	-40 to 185F +/- 0.36F
Relative Humidity	0 to 100% +/- 2%
CO ₂	400 to 5000ppm +/- 25ppm +/-3%
VOC	450 to 2000ppm CO ₂ Equivalent

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

Warranty

5 Years

PERFORMANCE

Heating: 47F Outside, 68F Inside

Heating Capacity (Btu/h)	4731 (Recirc)* 6531 (Vent)**
Heating Efficiency (COP) (excludes fan power - see below)	3.6 (Recirc) 4.8 (Vent)
Heating Elec Power (W) (excludes fan power - see below)	379 (Recirc) 399 (Vent)

Cooling: 95F(DB)/75F(WB) Outside,
80F(DB)/67F(WB) Inside

Total Cooling Capacity (Btu/h) Sensible + Latent	2230 (Recirc) 5314 (Vent)
Sensible Cooling (Btu/h)	1318 (Recirc) 3891 (Vent)
Latent Cooling (Btu/h)	912 (Recirc) 1423 (Vent)

Heating: 32F Outside, 68F Inside

Heating Capacity (Btu/h)	3702 (Recirc) 6789 (Vent)
Heating Efficiency (COP) (excludes fan power - see below)	3.3 (Recirc) 5.4 (Vent)
Heating Elec Power (W) (excludes fan power - see below)	331 (Recirc) 366 (Vent)

Dehumidification (Liters/Day)

9.6 (Recirc) 14.9 (Vent)	Cooling Efficiency (COP) (excludes fan power - see below)	3.2 (Recirc) 7.6 (Vent)
Cooling Elec Power (W) (excludes fan power - see below)	202 (Recirc) 204 (Vent)	

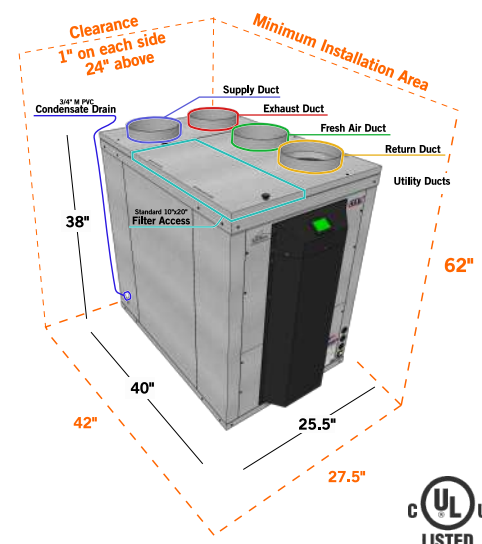
Fans

Heating: 17F Outside, 68F Inside

Heating Capacity (Btu/h)	2674 (Recirc) 7046 (Vent)
Heating Efficiency (COP) (excludes fan power - see below)	2.8 (Recirc) 6.2 (Vent)
Heating Elec Power (W) (excludes fan power - see below)	283 (Recirc) 332 (Vent)

Total Fan Power (W)
ECM Fans (heating & cooling)

38.6(50% Speed) 98.1(70% Speed)	* Recirculation mode heating and cooling capacity is relative to indoor conditions
** Ventilation mode heating and cooling capacity is relative to outdoor air conditions	



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