



CONDITIONING ENERGY RECOVERY VENTILATOR

FEATURES

On demand ventilation capabilities

Unique control system monitors:

- Inside & Outside Temperature
- Inside & Outside Relative Humidity
- VOCs & CO₂

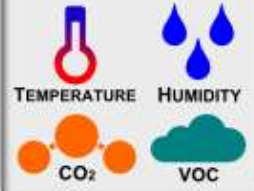
Integrated heat pump for energy recovery

- Low power consumption (600W)
- 1200W (~3800 Btu/hr) Cooling Capacity
- 1600W (~5500 Btu/hr) Heating Capacity

Only requires ducting and electrical;
no refrigeration lines to run!



SENSE



CONTROL



HOW IT WORKS

Managing a home's air quality is a demanding job. Between the resident's preferences, the occupancy activity, and even the time of year, your home's fresh air ventilation system needs to be flexible enough to handle a dinner party, while being smart enough to know when to cut back and save energy if fresh air is not needed. **Build Equinox's CERV** is precisely that kind of system. Designed from the ground up to serve you, the CERV's primary mission is to ensure that your home is both healthy and comfortable in a highly energy efficient manner.

Most Energy Recovery Ventilators (ERVs) and Heat Recovery Ventilators (HRVs) simply have a fixed ventilation rate for your home, regardless of your occupancy level. Gone for the day? Your ERV/HRV chugging away, needlessly ventilating your home and placing an unnecessary load on your conditioning system. Maybe now you have a few friends over, or you are exercising. Your pollutant level is going to rise, and your fixed ERV/HRV is just going to be sitting there, oblivious to the fact that the home is in desperate need of some fresh air. Not the CERV.

The brains of the CERV lie in the Fresh Air Control Module. By constantly monitoring the home's inside and outside temperature, relative humidity, Carbon Dioxide (CO₂), and Volatile Organic Compound (VOC) levels, the CERV is able to always maintain a high level of air quality and comfort in the most efficient way. Gone for the day? No problem, the CERV automatically sees the CO₂ and VOC levels dropping, and decreases its ventilation rates accordingly. Having friends over? CO₂ and VOC levels increase, indicating to the CERV that you need more ventilation.

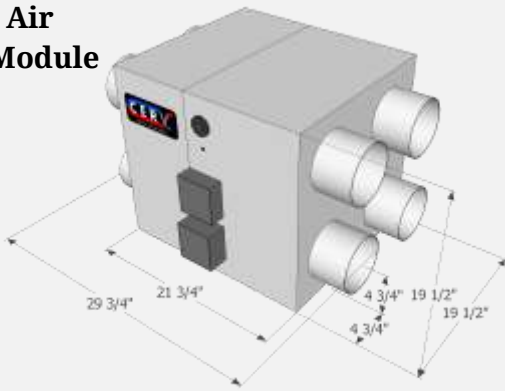
The CERV can take a sizeable load off of the home's conditioning system as well with its conditioning module. Instead of using a typical heat exchanger core, the CERV exchanges energy through air streams with the use of its heat pump, which can actively heat or cool the air if it sees that the house is out of your desired comfort range. There are even some cases where the CERV is the only conditioning system needed for the home.

SPECIFICATIONS

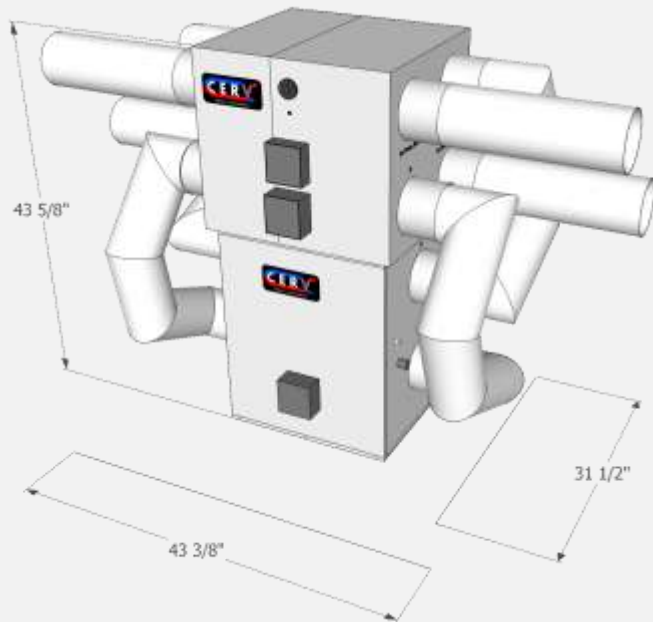
	Fresh Air Module (Fans Included)	Conditioning Module	
Voltage Supply	120	240	Volts at 60hz
Current	1	2.1	Amps

Ducted CERV Pressure Drop: 0.58 inches of water

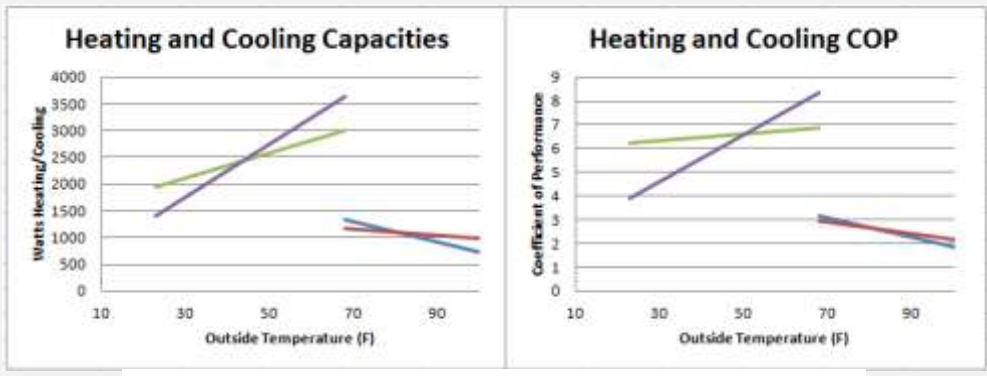
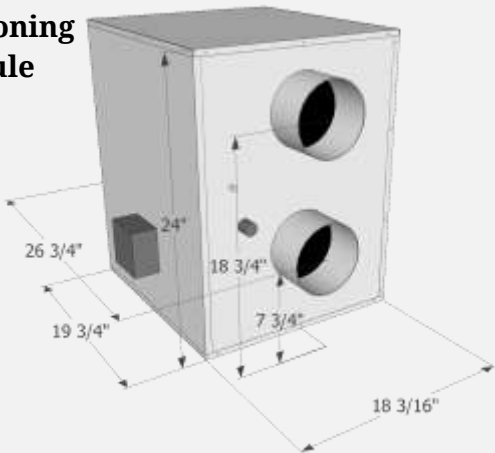
Fresh Air Control Module



Assembled System



Conditioning Module



— Recirc Cool — Vent Cool — Recirc Heat — Vent Heat

Performance data for approximately 200CFM-250CFM air flow