CERV-1000®

Smart Ventilation, Heating, & Cooling

Reduce Sick Days
Decrease Drowsiness
Improve Focus
Increase Performance

Designed for High Occupancy Spaces:
Classrooms, Restaurants,
Houses of Worship, etc.

For more information, scan the QR code
or visit: www.buildequinox.com/CERV-1000

Features

- Up to 1000 CFM Fresh Air with 80% Sensible Recovery
- On Demand Smart Ventilation CO2, VOCs, & Particulates
- 36,000 BTU/h Cooling & Low Temperature Heating
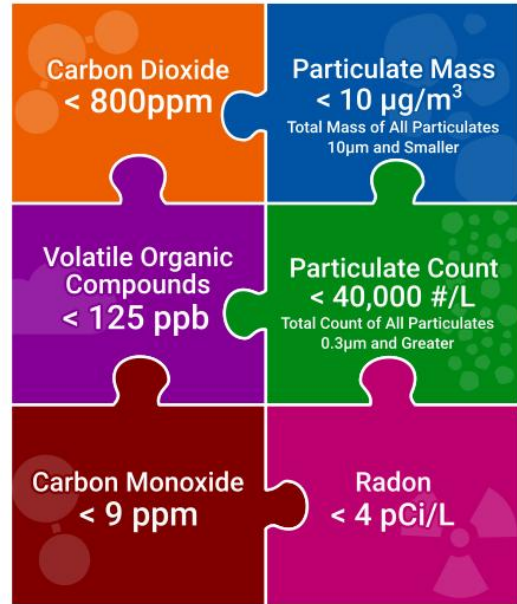- Built-in UV-C Air Sanitization 85% Single Pass Kill Efficiency
- MERV 13 Air Filtration
- Smart Controls & Administrative Dashboard

CERV Smart Ventilation
Indoor Air Quality Standards

Carbon Dioxide < 800ppm	**Particulate Mass** < 10 µg/m^3 Total Mass of All Particulates 10µm and Smaller
Volatile Organic Compounds < 125 ppb	**Particulate Count** < 40,000 #/L Total Count of All Particulates 0.3µm and Greater
Carbon Monoxide < 9 ppm	**Radon** < 4 pCi/L

Specifications

Dimensions	· 72.3" Width x 73" Height x 32.3" Depth
Comfort	· 36,000 Btu/h (3 ton) Heating and Cooling Capacity · -15F to 115F Outside Temperature Operation · 70% capacity at -15F · Supports ductless & ducted system configurations
Indoor Air Quality	· Maximum allowed concentration levels for CO2, VOCs, and PMs based on Build Equinox Healthy Indoor Air Guidelines (based on extensive university and private research).
Ventilation	· Demand control ventilation monitoring CO2, VOCs and PM levels. · 1,000 CFM of fresh air flow with 80% sensible / 60% latent energy recovery
Filtering	· Standard 24"x24"x1/2" MERV 13 filters. · 2 filters for fresh air intake and 2 for return air.
Sanitation	· Two 18" 75W-total ultra-violet lamps designed for 85% single pass microbe kill efficiency.
Operation	· Variable speed fans · Three automated damper units providing modes of operation from 100% fresh air to 100% recirculation.
Controls	· Indoor and outdoor air CO2/VOC/particulate sensors. · Built-in WiFi · EnOcean local wireless communication · Touchscreen interface for system control
User interaction	· CERV-ICE administration and facility management controls and dashboard · Multi-level (classroom, building, district) unit control authorization · Individual classroom "analytics" display of classroom IAQ (CO2, VOC, particulates)
Power	· Electrical Requirements: 240VAC with 50amp circuit breaker · All major components (heat pump, fans, UVGI) are ETL listed.

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