



Submittal Data

Submittal Data Model : ERV-C170 42-170CFM@0.4 in.w.g.

Description: Energy Recovery ventilator

Project Name:

Location:

Date:

Purchaser:

Engineer:

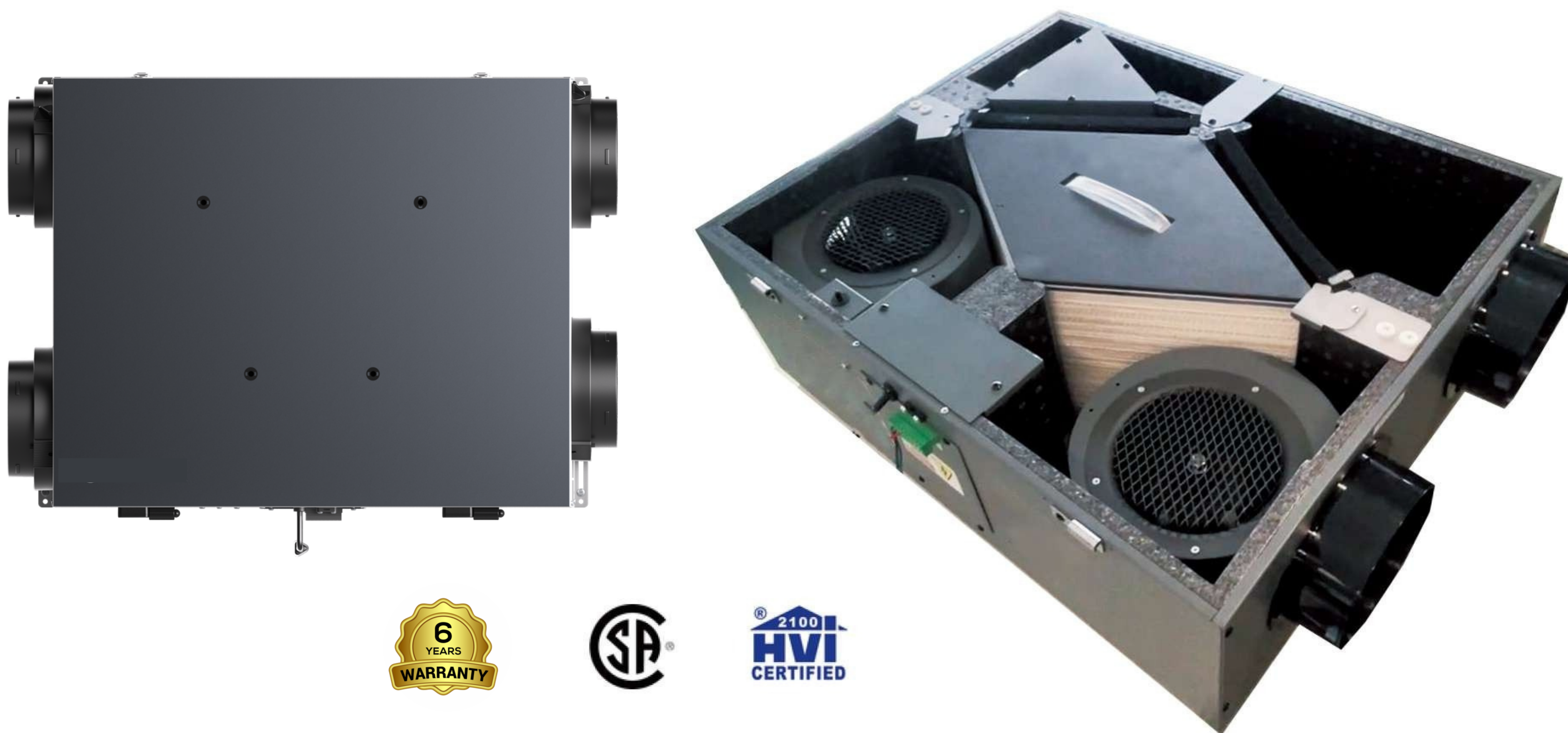
Submitted to:

For:

Review: ☐

Approval: ☐

Eco-Air Energy Recovery Ventilator



Product Features:

- **Energy Recovery Ventilation** – Efficiently transfers both heat and moisture between outgoing stale air and incoming fresh air to reduce energy consumption and improve indoor comfort.
- **Adaptive Airflow** – The ECM fan automatically adjusts to system resistance, while integrated balancing dampers allow precise airflow adjustment. Pressure balancing ports are provided for accurate commissioning and system optimization.
- **Flexible Installation** – Designed for both horizontal suspended and wall-mounted installations, providing installation flexibility for a wide range of residential applications.
- **High-Efficiency ECM Motors** – Durable ECM motors deliver quiet, reliable, and energy-efficient operation with reduced power consumption.
- **Easy Maintenance** – A conveniently accessible service door allows quick filter replacement and routine maintenance.
- **Three-Speed Operation** – Selectable airflow settings from 42–170 CFM accommodate the ventilation requirements of medium to large residential homes.
- **Warranty & Certifications** – Includes a 6-year limited motor warranty and 3-year limited parts warranty. HVI Certified, UL 1812 and CSA C439 approved.



Product Dimensions:

Performance Data	
Airflow rate (CFM)	135 / 90/ 42
External Static Pressure (in. w.g)	0.4 / 0.2/ 0.1
Sound Pressure (dBA)	36 / 33/ 24
Outdoor air Temperature Operating range (°F Dry Bulb)	-18 to 109 °F

Electrical Data	
Power Supply (V/HZ/Ph)	120 / 60/ 1
MCA (A)	1.6
MOP (A)	15
Max Input Power (W)	180
Motor Type	ECM Motor – Brushless, Digitally Controlled / Direct Drive
Motor Speeds	3 Speeds with basic control

Product Data	
Dimension (H x W x D)	9-3/4"× 26 "× 2 1-9/16"
Weight (lbs.)	43
Core type	Cross Flow / Non-washable
Filter type	MERV 8 / Washable / 2

Fan Performance:

Static Pressure (in. w.g)	Supply Airflow (CFM)	Exhaust Airflow (CFM)	Power (Watts)
0.1	191	170	145.1
0.2	184	163	144.1
0.3	178	157	143.3
0.4	172	150	142.8



Static Pressure (in. w.g)	Supply Airflow (CFM)	Exhaust Airflow (CFM)	Power (Watts)
0.5	165	144	142.2
0.6	159	138	141.9
0.7	153	131	141.4
0.8	146	125	141
0.9	142	119	140.4
1.0	136	112	139.8

Energy Performance:

Heating	Inlet supply air temperature (°F)	Outdoor airflow (SCFM)	Average Power (Watts)	Sensible Recovery Efficiency SRE	Adjusted Sensible Recovery Efficiency ASRE	Fan Efficiency (cfm/w)
1	32	42	27	86%	90%	1.5
2	32	91	82	73%	80%	1.1
3	32	135	145	65%	72%	0.9
4	-13	40	41	67%	70%	-

Cooling	Inlet supply air temperature (°F)	Outdoor airflow (SCFM)	Average Power (Watts)	Sensible Recovery Efficiency SRE	Adjusted Sensible Recovery Efficiency ASRE	Apparent effectiveness	Net Moisture Transfer
1	95	42	26	67%	69%	84.1%	0.63



Product Dimensions:

