Energy Recovery Ventilator

Model No.： IWMBCOFF1AYE

57–152 CFM @ 0.4 in. w.g

The Exinda Energy Recovery Ventilator (ERV) is engineered to improve indoor air quality and energy efficiency by capturing heat and moisture from outgoing stale air and transferring them to incoming fresh air. Utilizing a high-performance heat exchanger, the ERV recovers heat energy and humidity from exhaust air before it exits the building. This process preconditions the incoming air, significantly reducing the electric load on heating and cooling systems.

Energy Efficiency | Improved Air Quality | Humidity Control

- **Constant airflow** - Exinda ERV ensures balanced ventilation, preventing energy loss and poor air quality caused by duct resistance, filter clogging or pressure changes.
- **Auto-Balancing** - Fastest installation in its class, reducing setup time by up to 20 minutes per unit, thanks to Exinda innovative auto-balancing and self-adjusting technology.
- **Flexible mounting option** - Including horizontal and wall-mounted configurations, enable seamless integration into a variety of applications.
- **ECM motors -** High-performance ECM motors ensure reliable, energy-efficient operation.
- **Easy maintenance** - The ERV features an easily accessible door for hassle-free maintenance and filter replacement.
- **Three-speed airflow** - With a selectable airflow speed range from 57 – 152 CFM meets the needs of a medium-large size home.
- **−13 °F low-climate approved** – suitable for all climate zones.
- Unit UL1812(safety), CSA439 (performance) approved.

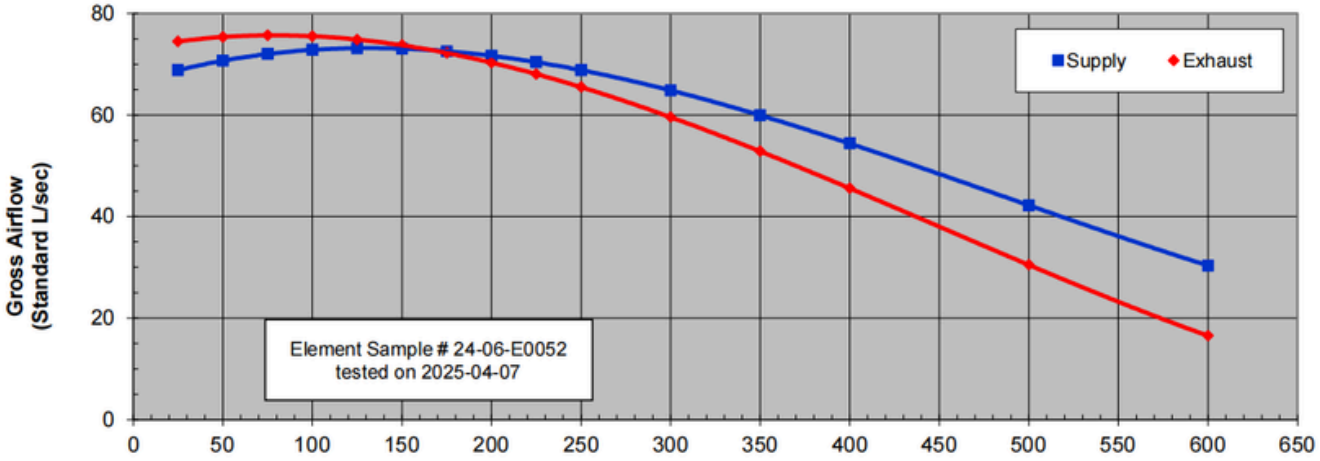
Product Details

Power Supply (V/Hz/Ph):	120/60/1
Power Supply Connections:	L, N, Ground
Connection Duct Diameter (in):	6
Min Circuit Amps MCA (A):	1.6
Max Overcurrent Protection MOP (A):	15
Max input power (W):	180
Dimensions (HxWxD) (in):	22 × 19 × 16-1/8
Condensate Pipe Connection	NA
Net Weight (lb):	46
Ext Static Pressure (HH/H/L) (in. w.g.)	0.4/0.2/0.1
Airflow Rate (HH/H/L) (CFM):	152/90/57
Sound Pressure Level (HH/H/L) (dBA):	36 /33 /24
Outdoor operating temperature range (°F DB)	−18 to 109 °F
Filter level /type / Qty	MERV 8 / Washable / 2
ERV Core / type	Cross Flow / Non-washable
Motor/Drive	ECM Motor Brushless Digitally controller/Direct
Number of speeds available with Basic Control	3
Defrost Type	Recirculation defrost
Balancing	Auto-Balancing

Fan Efficacy

External Static Pressure		Net Supply Airflow	Net Supply Airflow	Gross Supply Airflow	Gross Supply Airflow	Gross Exhaust Airflow	Gross Exhaust Airflow	Power
Pa	in.w.g.	Standard L/s	CFM	Standard L/s	CFM	Standard L/s	CFM	Watts
25	0.1	68	144	69	146	74	158	111
50	0.2	70	147	71	150	75	160	123
75	0.3	71	150	72	153	76	160	131
100	0.4	72	152	73	154	76	160	142
125	0.5	72	153	73	155	75	159	151
150	0.6	72	152	73	155	74	156	160
175	0.7	71	151	73	154	72	153	165
200	0.8	71	149	72	152	70	149	171
225	0.9	69	147	70	149	68	144	171
250	1.0	68	144	69	146	65	139	170
300	1.2	64	135	65	137	60	126	168

Fan Curves



Energy Performance

HEATING	Inlet supply temperature		Net outdoor Airflow		Average power (watts)	Sensible recovery efficiency	Adjusted sensible recovery efficiency	Fan efficacy	
	℃	℉	L/s	scfm				L/s/W	cfm/W
1	0	32	27.1	57	30	77.4%	81.1%	0.90	1.9
2	0	32	70.1	148	111	62.5%	67.7%	0.63	1.3
COOLING	Inlet supply temperature		Net outdoor Airflow		Average power (watts)	Total recovery efficiency	Adjusted total recovery efficiency	Fan efficacy	
	℃	℉	L/s	scfm				L/s/W	cfm/W
1	35	95	25.9	55	30	63.4%	65.7%	0.78	1.66

Dimension Drawing