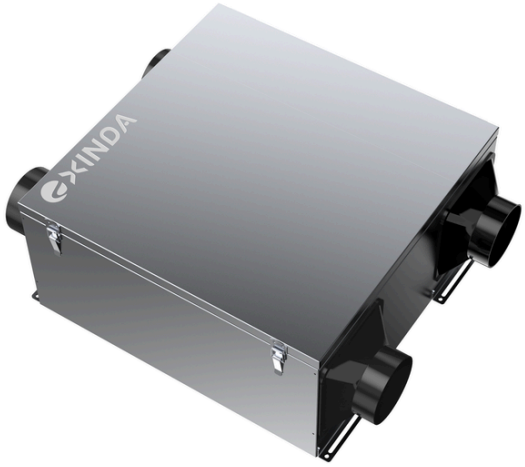
Energy Recovery Ventilator

Model No.： ICMBCNF1AYE

53-100CFM @ 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 is constant airflow 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 mantainess** - The ERV features an easily accessible door for hassle-free maintenance and filter replacement.
- **Three speed airflow** - With a selectable airflow speed range from 64-100CFM, meets the needs of a medium-large size home
- 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):	4
Min Circuit Amps MCA (A):	1.4
Max Overcurrent Protection MOP (A):	15
Max input power (W):	180
Dimensions (HxWxD) (in):	9 1/12 * 20 1/16 * 20 1/14
Condensate Pipe Connection	NA
Net Weight (lb):	36
Ext Static Pressure (HH/H/L) (in W.G)	0.4/0.2/0.1
Airflow Rate (HH/H/L) (CFM):	90 / 70 / 53
Sound Pressure @ (HH/H/L) (dBA):	30 / 28 /24
Operating range outdoor temperature(°F DB)	-18 ~ 109F
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	Exhaust defrost
Balancing	Auto-Balancing

Fan Efficacy

Static Pressure		Net Supply Airflow		Gross Supply Airflow		Gross exhaust Airflow		Power
Pa	In W.G	L/S	CFM	L/S	CFM	L/S	CFM	Watts
25	0.1	45	94	45	96	45	95	43
50	0.2	45	95	45	96	45	95	50
75	0.3	45	95	46	96	45	95	57
100	0.4	45	96	46	97	45	95	66
125	0.5	45	96	46	97	45	96	71
150	0.6	46	97	46	98	46	96	77
175	0.7	46	97	47	99	46	97	83
200	0.8	46	98	47	99	46	97	94
225	0.9	46	98	47	100	46	98	100
250	1	47	99	47	100	46	98	107
300	1.2	47	100	48	102	46	97	120

Fan Cures

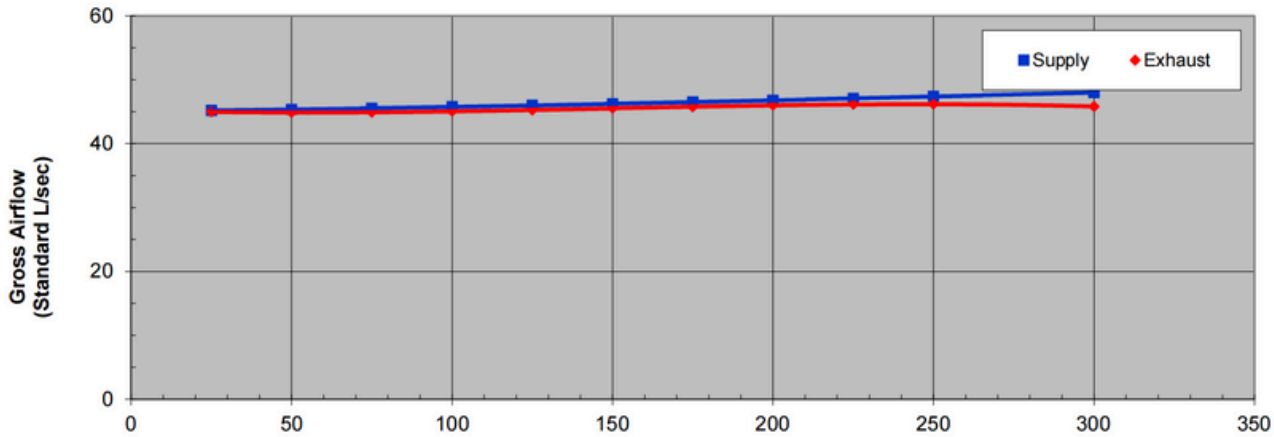


Figure 2

Energy Performance

Heating	Inlet supply temperature		Net outdoor Airflow		Average power (watts)	Sensible recovery efficiency **SRE**	Adjursted sensible recovery effciency **ASRE**	Fan efficacy	
	℃	℉	L/s	scfm				L/s/W	cfm/W
1	0	32	30.5	64	30	77.4%	80.7%	1.01	2.1
2	0	32	43.5	92	46	73.6%	77.1%	0.94	2
3	-25	-13	20.6	43	30	44.3%	45.4%	0.68	1.43
COOLING	Inlet supply temperature		Net outdoor Airflow		Average power (watts)	Sensible total efficiency	Adjursted total recovery effciency	Apparent effectivenss	Net Moisture Transefer
	℃	℉	L/s	scfm					
1	35	95	25.9	65	30	63.3%	65.6%	67%	34.8%

Dimension Drawing