SUBMITTAL DATA SHEET

Energy Recovery Ventilation

Model Number: XEC-100AB-BU

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____

C US

2100 HVI CERTIFIED

Product Details		
Power Supply	V/Ph/Hz	120/1/60
Connection Duct Diameter	in	4
Max. Circuit Amps(MCA)	A	1.4
Max.Overcurrent Protection(MOP)	A	15
Max input power	W	180
Dimensions(HxWxD)	in	9-9/16 x 25-9/16 x 20-1/16
	mm	243 x 650 x 510
Net weight	Lbs	36
	kg	16.33
Ext Static Pressure (HH/H/L)	in W.G	0.4/0.2/0.1
Airflow Rate (HH/H/L)	CFM	96/85/65
Sound Pressure	dBA	30/28/24
Power Supply Connections		L, N, Ground
Condensate Pipe Connection		NA
Operating range outdoor temperature(℉ DB)		-18℉ ~ 109℉
Filter level /type / Qty		Merv 8 / Washable / 2
ERV Core / type		Cross Flow / Non washable
Motor/Drive		Brushless Digitally controller/Direct

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

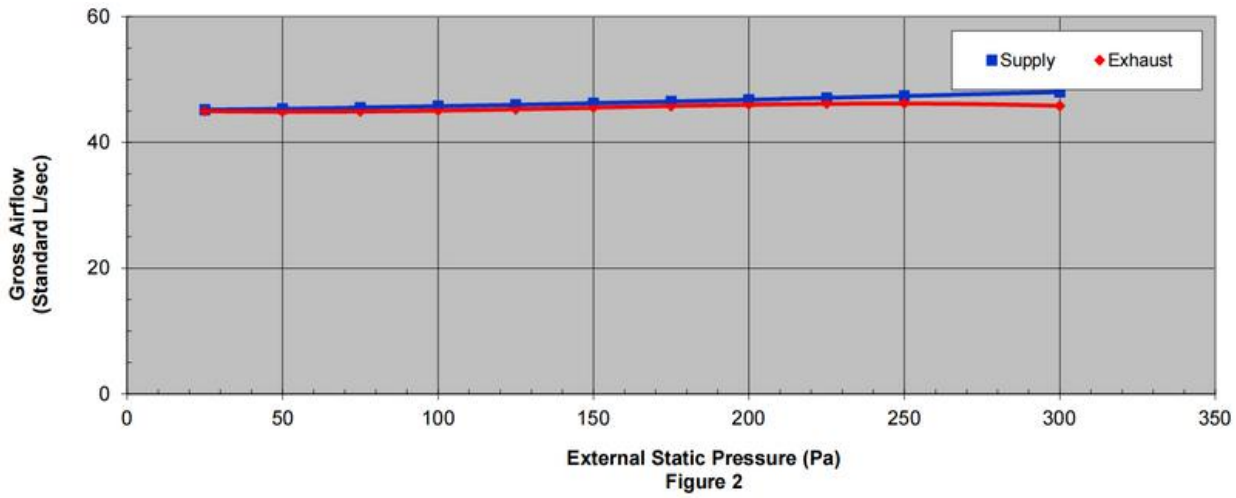


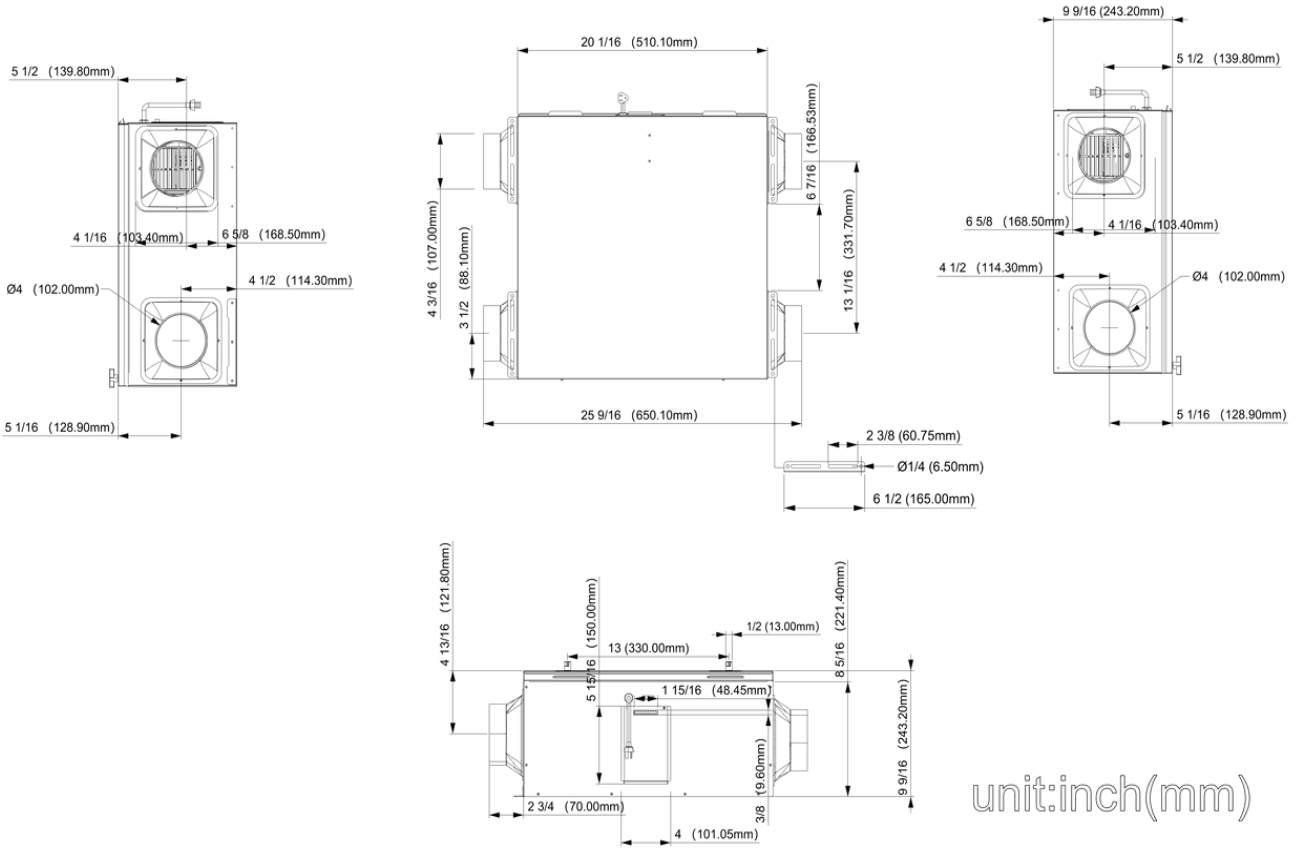
Figure 2

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	77.40%	80%	0.98	2.1
2	0	32	43.5	92	46	73.60%	77%	1	2
3	-25	-13	20.6	43	30	44.30%	45%	0.7	1.46

Cooling	Inlet Supply Temperature		Net Outdoor Airflow		Average power (watts)	Sensible Total Efficiency	Adjursted Total Recovery Effciency	Fan efficacy	
	℃	℉	L/s	scfm				L/s/W	cfm/W
1	35	95	26	65	30	63%	66%	67%	34.80%

Dimension Drawing



unit:inch(mm)

Feature

- **Constant airflow** -The 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 it's class, reducing setup time by up to 20 minutes per unit, cauce of the 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