

CASING

Steel casing is covered with high quality multilayer aluminium and zinc alloy to prevent corrosion. The casing is equipped with a switch to turn the ventilator off when the service panel is opened. Service access from both left and right side. For outdoor installation the roof is necessary (optional).

ENERGY RECOVERY CORE

Unique enthalpy heat exchanger provides high-efficient heat & humidity recovery. No drain pan required.

FANS

The unit is equipped with supply and exhaust centrifugal fans featuring backward-curved blades and advanced EC (Electronically Commutated) motor technology. These fans deliver superior energy efficiency and precise speed control. They come with built-in thermal overheating protection and an automatic restart function, ensuring consistent and reliable performance. Additionally, both the electric motors and impellers are dynamically balanced to minimise noise and vibration, providing smooth and efficient

DEFROST SYSTEM

Fan stop defrost system is activated when the outdoor temperature falls below 23° F (-5° C).

FILTER

Washable MERV 6 air filters in exhaust and supply air streams. Filters MERV 8, MERV 13 optional.

ERV 13 EC

Additional Air Pressure Drop with optional filters			
Filter type	Airflow CFM		
	200	400	600
MERV 8	0,02	0,04	0,06
MERV 13	0,15	0,30	0,40

ERV 17 EC

Additional Air Pressure Drop with optional filters			
Filter type	Airflow CFM		
	300	600	900
MERV 8	0,03	0,06	0,08
MERV 13	0,2	0,40	0,53

CONTROL

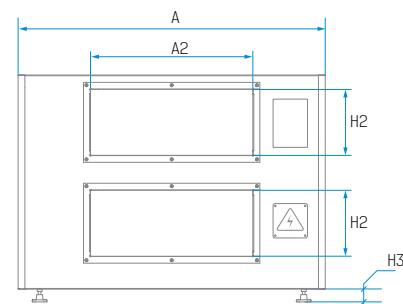
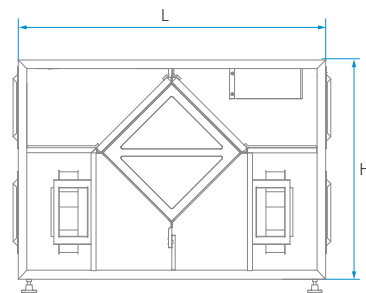
The unit incorporates an integrated automation and control system with following functions:

- Operation mode switch.
- Airflow balancing by supply and exhaust fan independent speed adjustment.
- Automatic recovery core frost protection.
- External control device connection.



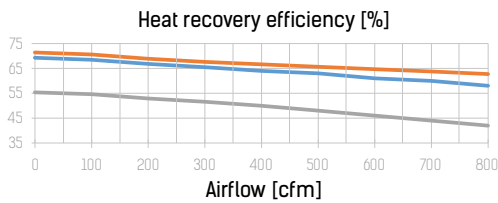
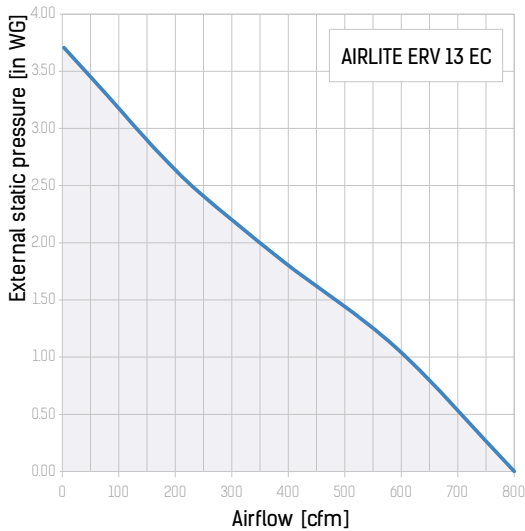
DIMENSIONS

Measurements [in]					
A	A2	H	H2	H3	L
37 1/4"	20"	26"	8"	4"	36 1/2"



TECHNICAL DATA

Parameters	AIRLITE ERV 13 EC
Voltage [V / 60 Hz]	1 ~ 208
Unit power [W]	650
Unit current [A]	4.5
Minimum circuit Amps [MCA]	5.7
Maximum over current protection [MOP]	6.0
Sensible effectiveness @ max airflow [%]	63
Air flow @ ESP 0.4" WG [cfm]	730
Air flow max [cfm]	800
Transported air temperature [F]	-35 up to +140
Outer skin casing material	21 gauge galvanized steel
Insulation	1" mineral wool
Connected air duct size [in]	8x20
Weight net [lb]	179
Weight gross [lb]	313



— Sensible winter & summer
— Winter total
— Summer total

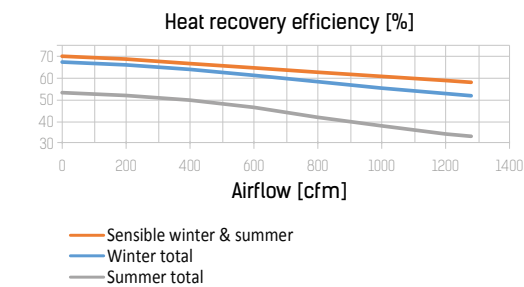
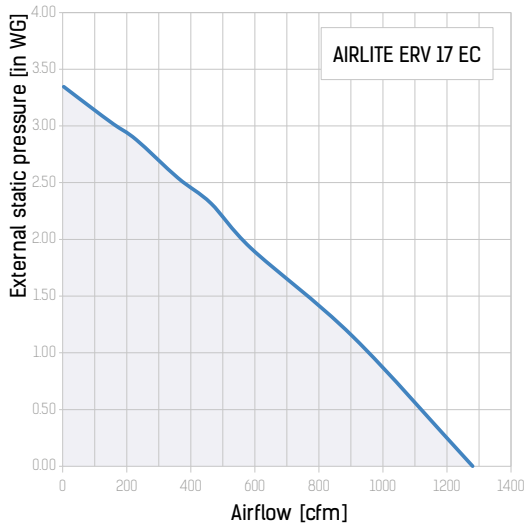
Acoustic Noise Power Chart (dBA) at unit ports		
Airflow	Fresh air to building port	Exhaust air from building port
730 CFM at 0.4 in. w.g.	73 dBA	73 dBA
290 CFM at 0.2 in. w.g.	56 dBA	56 dBA

Note: Efficiencies are based on AHRI standard conditions

	Summer mode			Winter mode		
	Outdoor Air	Return Air	Supply Air	Outdoor Air	Return Air	Supply Air
Standard Flow Rate CFM	730	730	730	730	730	730
Dry Bulb °F	95	75	83.2	35	70	58.8
Wet Bulb °F	78	63	72	33	58	49.3
Enthalpy (H) BTU/lb	41.5	28.6	35.8	12.2	25.1	19.9
Moisture Ratio (MR) gr/lb	117.3	66.7	99.9	24.4	52.6	36.9

TECHNICAL DATA

Parameters	AIRLITE ERV 17 EC
Voltage [V / 60 Hz]	1 ~ 208
Unit power [W]	940
Unit current [A]	10.5
Minimum circuit Amps [MCA]	13.2
Maximum over current protection [MOP]	13.8
Sensible effectiveness @ max airflow [%]	58
Air flow @ ESP 0.4" WG [cfm]	1140
Air flow max [cfm]	1280
Transported air temperature [F]	-35 up to +140
Outer skin casing material	21 gauge galvanized steel
Insulation	1" mineral wool
Connected air duct size [in]	8x20
Weight net [lb]	209
Weight gross [lb]	364



Acoustic Noise Power Chart (dBA) at unit ports		
Airflow	Fresh air to building port	Exhaust air from building port
1140 CFM at 0.4 in. w.g.	76 dBA	76 dBA
460 CFM at 0.2 in. w.g.	59 dBA	59 dBA

Note: Efficiencies are based on AHRI standard conditions

	Summer mode			Winter mode		
	Outdoor Air	Return Air	Supply Air	Outdoor Air	Return Air	Supply Air
Standard Flow Rate CFM	1140	1140	1140	1140	1140	1140
Dry Bulb °F	95	75	83.9	35	70	57.5
Wet Bulb °F	78	63	73.1	33	58	48.1
Enthalpy (H) BTU/lb	41.5	28.6	36.8	12.2	25.1	19.2
Moisture Ratio (MR) gr/lb	117.3	66.7	105.1	24.4	52.6	34.7

MODEL	QUANTITY	COMMENTS	PROJECT
			location:
			architect:
			engineer:
			contractor:
			submitted by: