LIGHT COMMERCIAL SERIES

ERV

E1100L-Fi-EC-N

Energy Recovery Ventilator
1000 CFM at 0.4 in.w.g (ESP)

Made in Canada | **5 YEAR WARRANTY** CORE | **2 YEAR WARRANTY** OTHER PARTS | **EC**

PRODUCT DESCRIPTION

The E1100L-Fi-EC-N energy recovery ventilator provides up to 1000 cubic feet per minute (470 L/s) of fresh outdoor air while exhausting an equivalent amount of stale indoor air, creating a well-balanced ventilation system. The E1100L-Fi-EC-N makes use of Aldes' AHRI Certified High Latent Transfer enthalpic cores that deliver superior moisture transfer and can be used in any climate zone. The highly efficient and quiet variable-speed EC motors use on average 80% less electricity of the E1100L-Fi-N at low speed, significantly increasing return on investment.

The E1100L-Fi-EC-N is recommended for midsized non-residential spaces or dedicated zones within larger buildings such as classrooms, common areas of residential complexes and indoor parking garages.

Designed for versatile indoor installation, Aldes light commercial ventilators can fit almost anywhere and still provide easy access to the internal components for quick maintenance. The units also offer a choice of five continuous operation speeds and a demand-controlled high speed exchange mode.

KEY FEATURES

Electronically and independently adjustable supply and exhaust blowers (FlexControl).

Painted, heavy-gauge galvanized steel cabinets are attractive, rust-resistant and extremely durable.

Doors on both sides of the unit to allow easy access to filters, cores and motors, no matter the installation constraints.

Fan exhaust frost protection, or optional recirculation defrost kit (factory installed or upgraded in the field).

Four highly efficient and noise reducing RadiCal centrifugal fans with EC motors from EBM Papst.

Durable High Latent Transfer enthalpy core has exceptional moisture transfer for increased comfort.

Plate Exchanger
Material: High latent transfer (HLT)

Casing
Material: Painted galvanized steel 22GA
Insulation: 1"(25 mm) Fiberglass with FSK
Drain Connection: Ø 1/2" (Ø 13 mm)
Duct Connections: 20" x 8" (508mm x 203mm)
Width: 36-1/4" (921mm)
Height: 23-7/8" (606mm)
Depth: 47-1/4" (1200mm)
Unit Weight: 204 lb (93 kg); 214 lb (97 kg) with recirculation
Shipping Weight: 261 lb (118 kg); 271 lb (193 kg) with recirculation

Mounting
Supplied with base rails. Support rods by others.

Electrical Requirements
230V/1p/60 Hz: FLA 5.6A, MCA 6.0A, MOP 15A
208V/1p/60 Hz (with field modification): FLA 6.0A, MCA 6.4A, MOP 15A
Terminal block for direct wiring to the building's electrical system.
Fused disconnect not included.

Frost Control
Cycles controlled by a temperature sensor when outdoor temperatures fall below 14°F (-10°C).
- Standard: Exhaust Defrost
- Optional: Recirculation Defrost (P/N 683950)

Blowers
Four backward-inclined motorized impeller, direct drive EC motor, variable speed, external rotor.
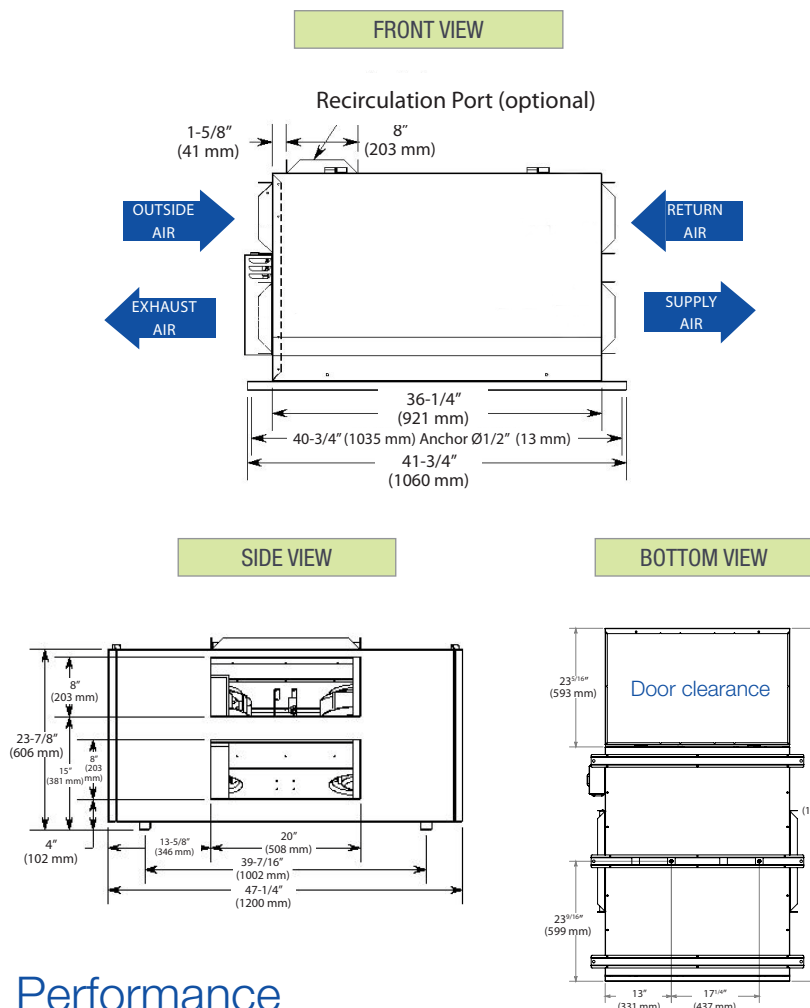
Filters
Type : Aluminum (P/N 683951)
Optional : MERV 8 (P/N 683952), Charcoal (P/N 683953), or High Efficiency/MERV13 Equivalent (P/N 683954)

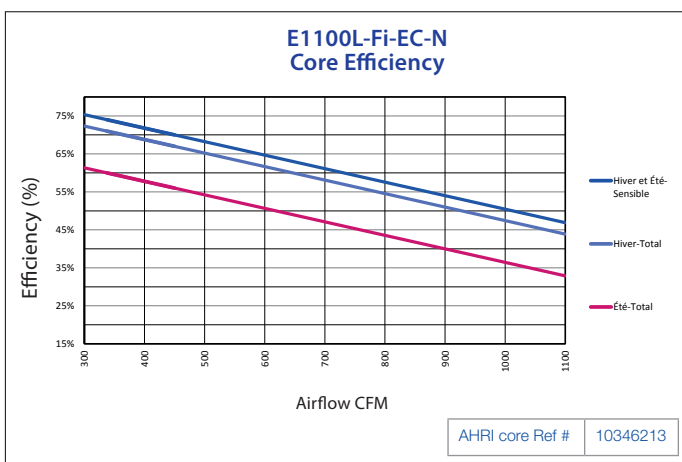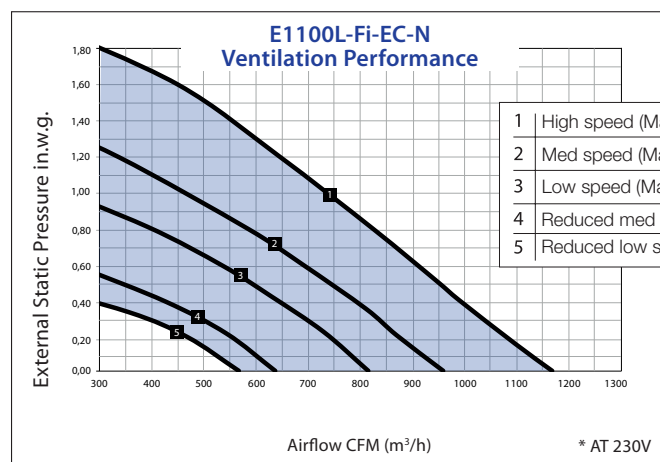| Additional Air Pressure Drop with Optional Filters		
Filter Type	Airflow CFM (L/S)	
	500 (236)	800 (375)
MERV 8	0.04	0.08
Charcoal	0.04	0.08
High Efficiency	0.22	0.35

C22.2 no113
UL 1812
Intertek

Dimensions

FRONT VIEW

Recirculation Port (optional)

1-5/8" (41 mm)
8" (203 mm)

OUTSIDE AIR
RETURN AIR
EXHAUST AIR
SUPPLY AIR

36-1/4" (921 mm)
40-3/4" (1035 mm) Anchor Ø1/2" (13 mm)
41-3/4" (1060 mm)

SIDE VIEW

8" (203 mm)
23-7/8" (606 mm)
15" (381 mm)
8" (203 mm)
4" (102 mm)
13-5/8" (346 mm)
20" (508 mm)
39-7/16" (1002 mm)
47-1/4" (1200 mm)

BOTTOM VIEW

23⁵/₁₆" (593 mm)
Door clearance
69⁵/₁₆" (1761 mm)
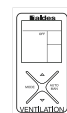23⁹/₁₆" (599 mm)
13" (331 mm)
17¹/₄" (437 mm)

Controls

0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options
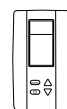
Low-voltage dry contact (24 VAC, 20 VA) for:
Occupancy Control (On/Off)
Interlock contacts
Optional Recirculation Mode

24 VAC, 10 VA output for supply and exhaust dampers (by others)

Compatible with :

Digital Multifunction Control (P/N 611242-FC)

LCD Electronic Multifunction Control (P/N 611227)

20/40/60 Minute Timer (P/N 611228)

Speed Control (Low/Intermittent/High) (P/N 611229)

Mode Control (exchange or recirculation) (P/N 611230)

BACnet™ interface (P/N 611235)

Performance

E1100L-Fi-EC-N Ventilation Performance

External Static Pressure in.w.g.

1	High speed (Max)	653W
2	Med speed (Max)	412W
3	Low speed (Max)	271W
4	Reduced med speed	152W
5	Reduced low speed	94W

Airflow CFM (m³/h)   * AT 230V

E1100L-Fi-EC-N Core Efficiency

Efficiency (%)

Hiver et Été-Sensible
Hiver-Total
Été-Total

Airflow CFM

AHRI core Ref #	10346213

Project:		Architect:	
Location:		Engineer:	
Model #:		Contractor:	
Quantity:		Comments:	
Submitted By:			
Date:			

For more information, contact your Aldes sales advisor, visit aldes-na.com, call 1.800.255.7749, or find us on