

Intertek
C22.2 no113
UL 1812

LIGHT COMMERCIAL SERIES

ERV

E650L-Fi-EC-N

Energy Recovery Ventilator

575 CFM at 0.4 in.w.g (ESP)



CORE

OTHER PARTS

PRODUCT DESCRIPTION

The E650L-Fi-EC-N energy recovery ventilator provides up to 575 cubic feet per minute (270 L/s) of fresh outdoor air while exhausting an equivalent amount of stale indoor air, creating a well-balanced ventilation system. The E650L-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 E650L-Fi-N at low speed, significantly increasing return on investment.

The E650L-Fi-EC-N is recommended for smaller 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).

Two 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: 14" x 8" (356mm x 203mm)

Width: 36-1/4" (921mm)

Height: 23-7/8" (606mm)

Depth: 32-1/8" (816mm)

Unit Weight: 136 lb (62 kg); 146 lb (66 kg) with recirculation

Shipping Weight: 189 lb (86 kg); 199 lb (90 kg) with recirculation



Mounting

Supplied with base rails. Support rods not included.



Electrical Requirements

230V/1p/60 Hz: FLA 2.8A, MCA 3.2A, MOP 15A

208V/1p/60 Hz (with field modification): FLA 3.0A, MCA 3.4A, 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 683900)



Blowers

Two backward-inclined motorized impeller, direct-drive, EC motors, variable speed, external rotor



Filters

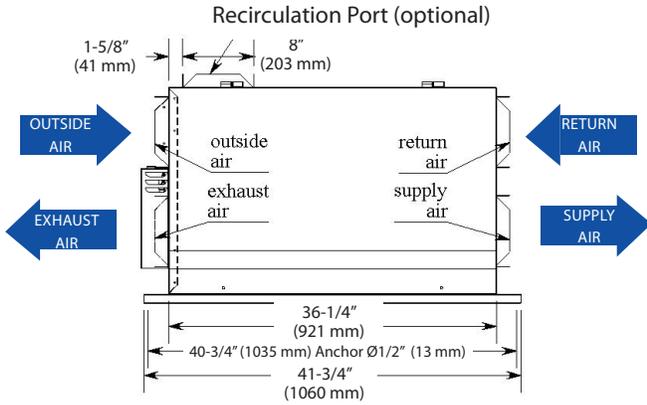
Type : Aluminum (P/N 683901)

Optional : MERV 8 (P/N 683902), Charcoal (P/N 683903), or High Efficiency/MERV13 Equivalent (P/N 683904)

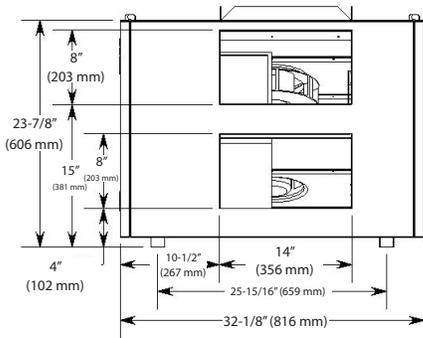
Additional Air Pressure Drop with Optional Filters		
Filter Type	Airflow CFM (L/S)	
	300 (142)	500 (236)
MERV 8	0.04	0.08
Charcoal	0.04	0.08
High Efficiency	0.22	0.35

Dimensions

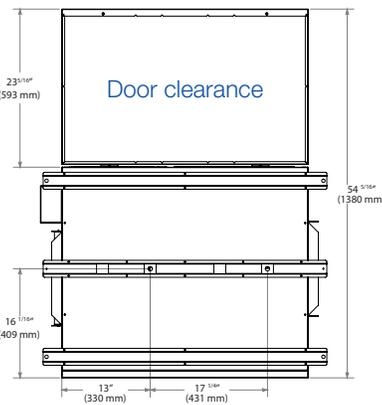
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



Performance

Controls

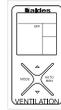
0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

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)



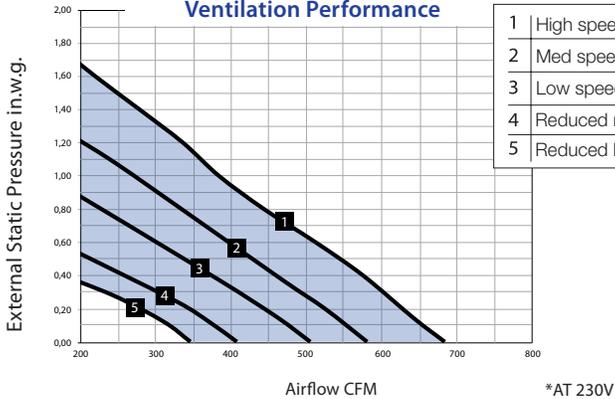
Speed Control (Low/Intermittent/High) (P/N 611229)



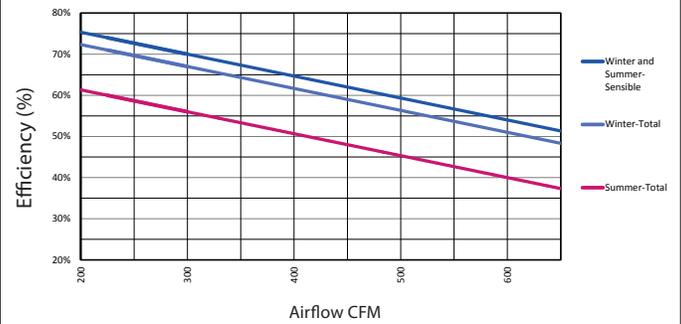
Mode Control (exchange or recirculation) (P/N 611230)

BACnet™ interface (P/N 611235)

E650L-Fi-EC-N Ventilation Performance



E650L-Fi-EC-N Core Efficiency



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 1.800.262.0916, or find us on

