



Intertek  
C22.2 no113  
UL 1812

# LIGHT COMMERCIAL SERIES

## ERV

### E1800L-Fi-N

Energy Recovery Ventilator  
1450 CFM at 0.2 in.w.g (ESP)

Made in  
Canada

5 YEAR  
WARRANTY

2 YEAR  
WARRANTY

CORE

OTHER  
PARTS

## PRODUCT DESCRIPTION

The E1800-Fi-N ventilator provides high-efficiency energy recovery. The unit uses a polymeric membrane core that can withstand a wide range of environmental conditions. The E1800-Fi-N produces approximately 1450 CFM at 0.2 in.w.g (ESP). It is powerful enough for restaurants, offices, and other small businesses.

The E1800-Fi-N is ideal for cold-weather applications. The E1800-Fi-N shuts down the fan for the outdoor air supply during defrost cycles.

## 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).

Efficient, totally enclosed motors with backward inclined impellers.

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



### Plate Exchanger

Material: Polymeric Membrane (sensible & latent heat transfer)

### Casing

Material: Painted galvanized steel 22GA

Insulation: 1"(25 mm) Fiberglass with FSK

Drain Connection: 1/2" (13 mm)

Duct Connections: 24" x 8" (610mm x 203mm)

Width: 45-5/8 (1158mm)

Height: 29-5/8 (753mm)

Depth: 48-7/8 (1242mm)

Unit Weight: 230 lb (105 kg); 243 lb (110 kg) with recirculation



### Mounting

Supplied with base rails. Support rods by others.



### Electrical Requirements

120V/1p/60 Hz: FLA 13.8A, MCA 14.7A, MOP 20A

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 683960)



### Blowers

Backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor

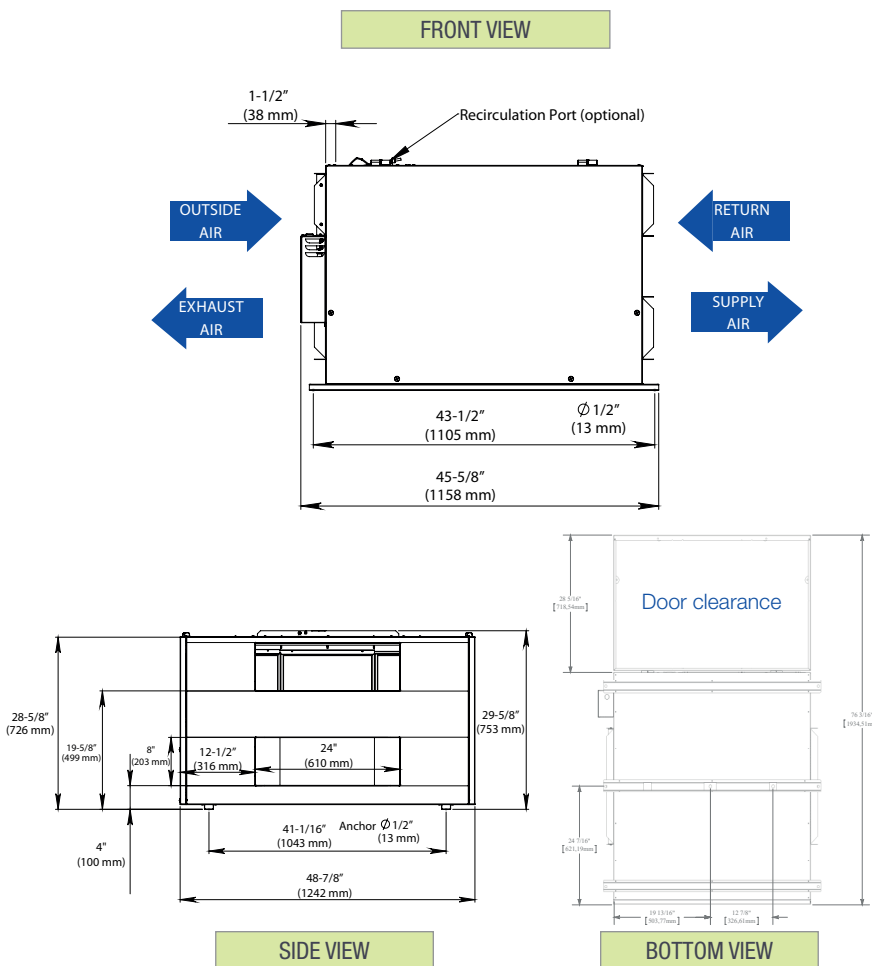


### Filters

Additional Air Pressure Drop with Optional Filters			Filter type	P/N	#Filters in pack
Filter Type	Airflow CFM (L/S)		Aluminum	612414	3
	1000 (472)	1400 (661)	MERV 8	612411	3
MERV 8	0.08	0.15	High Efficiency	612412	3
High Efficiency	0.35	0.48			

Note: This model requires a total of 6 filters. Make sure to get enough packs to meet the required amount.

# Dimensions



# Performance

# Controls

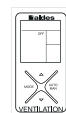
0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

Low-voltage dry contact (24 VAC, 20 VA) for:

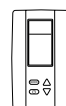
- Occupancy Control (On/Off)
- Interlock contacts
- Optional Recirculation Mode

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)



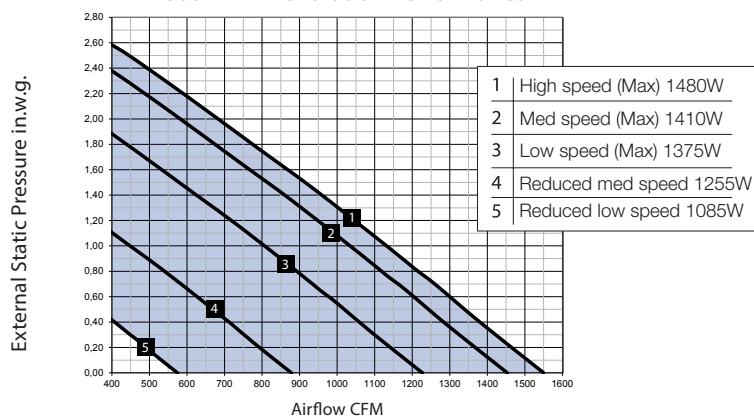
Speed Control (Low/Intermittent/High) (P/N 611229)



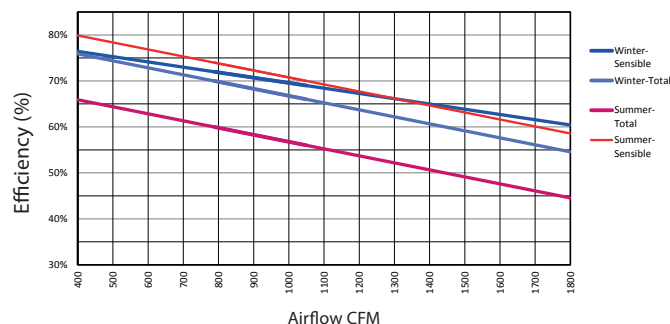
Mode Control (exchange or recirculation) (P/N 611230)

BACnet™ interface (P/N 611235)

**E1800L-Fi-N Ventilation Performance**



**E1800L-Fi-N Core Efficiency**



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

For more information, contact your Aldes sales advisor, visit [aldes-na.com](http://aldes-na.com), call 1.800.255.7749, or find us on

