



Intertek
C22.2 no113
UL 1812



LIGHT COMMERCIAL SERIES

ERV

E1800L-Fi-N

Energy Recovery Ventilator
1800 CFM at 0.2 in.w.g (ESP)



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 1800 CFM at 0.20 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

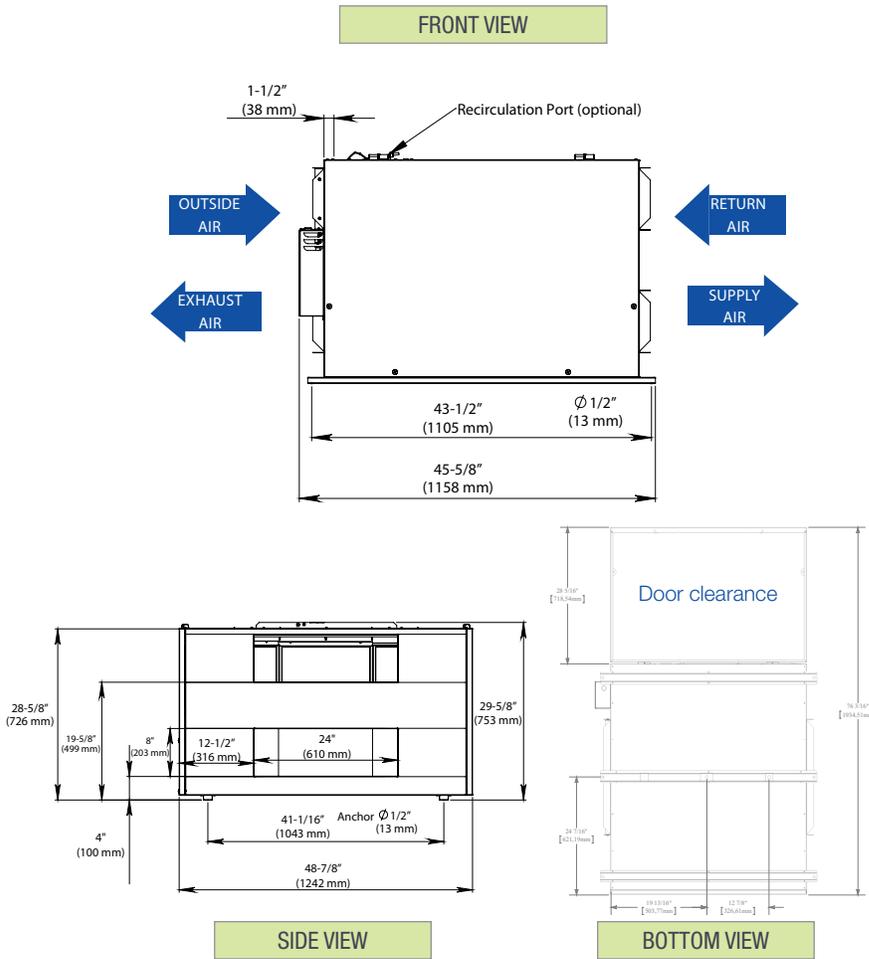


Filters

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

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

Dimensions



Controls

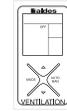
0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

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

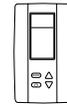
- Occupancy Control (On/Off)
- Interlock contacts
- Optional Recirculation Mode

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)

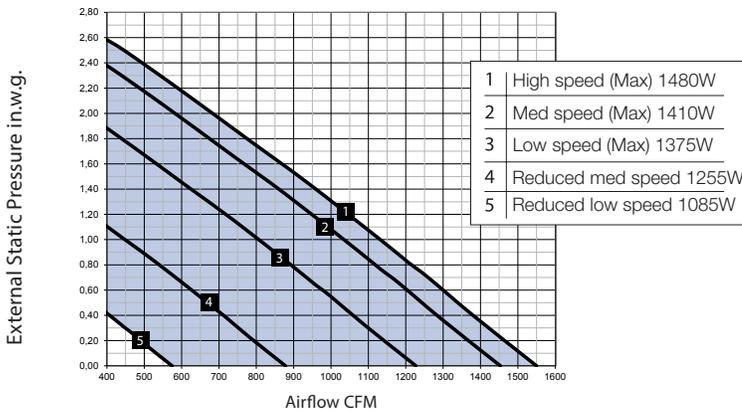


Mode Control (exchange or recirculation) (P/N 611230)

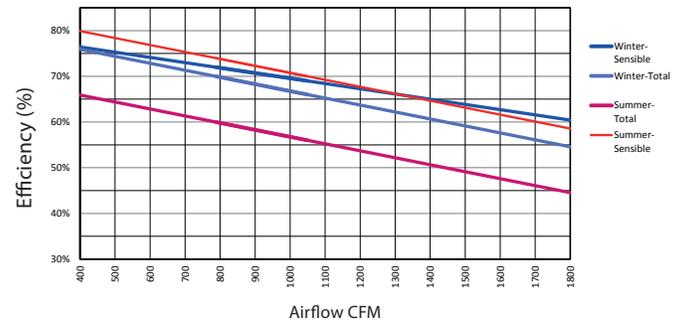
BACnet™ interface (P/N 611235)

Performance

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, call 1.800.255.7749, or find us on

