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)

Made in Canada

5 YEAR WARRANTY
CORE

2 YEAR WARRANTY
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.

Additional Air Pressure Drop with Optional Filters		
Filter Type	Airflow CFM (L/S)	
	1000 (472)	1400 (661)
MERV 8	0.08	0.15
Charcoal	0.08	0.15
High Efficiency	0.35	0.48

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.

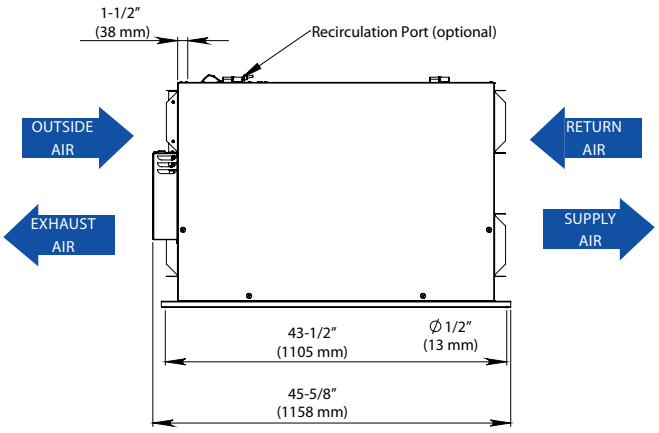
Frost Control
Cycles controlled by a temperature sensor when outdoor temperatures fall below 14°F (-10°C).
- Standard: Exhaust Defrost
- Optional: Recirculation Defrost (P/N 683960)

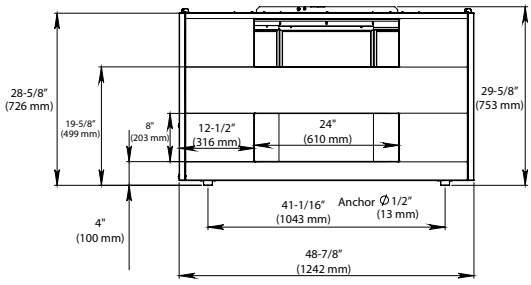
Blowers
Backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor

Filters
Type : Aluminum (P/N 683907)
Optional : MERV 8 (P/N 683906), Charcoal (P/N 683908), or High Efficiency/MERV13 Equivalent (P/N 683909)

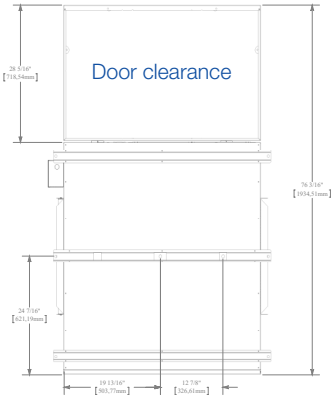
Dimensions

FRONT VIEW





SIDE VIEW



BOTTOM VIEW

Controls

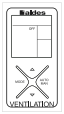
0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

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

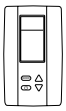
- Occupancy Control (On/Off)
- Interlock contacts
- Optional Recirculation Mode

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)

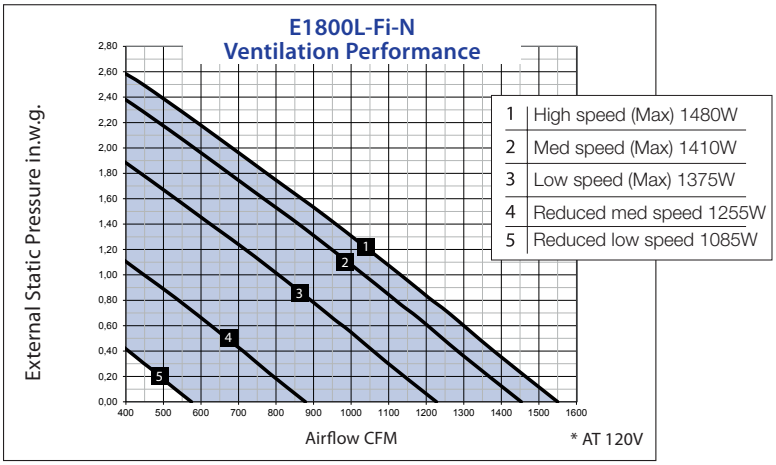
20/40/60 Minute Timer (P/N 611228)

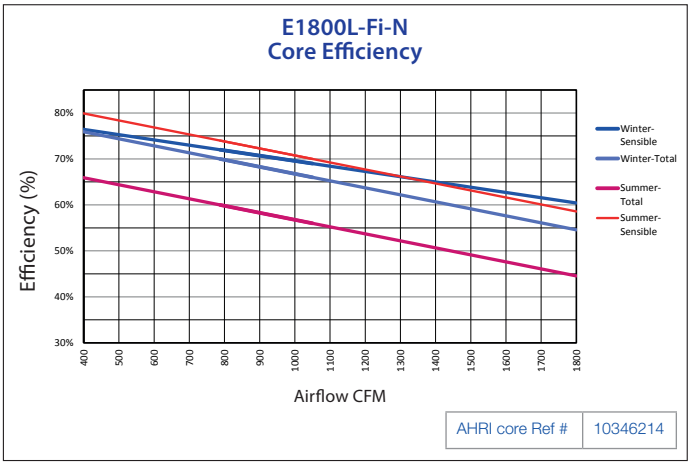
Speed Control (Low/Intermittent/High) (P/N 611229)

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

BACnet™ interface (P/N 611235)

Performance





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

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