

Intertek  
C22.2 no113  
UL 1812

# LIGHT COMMERCIAL SERIES

## HRV

### H1800A-Fi-EC-N

Heat Recovery Ventilator

2100 CFM at 0.40 in.w.g (ESP)



CORE

OTHER PARTS

## PRODUCT DESCRIPTION

The H1800A-Fi-EC-N (aluminum core) heat recovery ventilator provides up to 2100 cubic feet per minute of fresh outdoor air while exhausting an equivalent amount of stale indoor air, creating a well-balanced ventilation system. The highly efficient and quiet variable-speed EC motors use on average 50% less electricity of the H1800A-Fi-N at low speed, significantly increasing return on investment.

These ventilators are 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.

Access doors on both sides of unit.

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.



### Plate Exchanger

Material: Aluminum

### 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: 245 lb (111 kg); 258 lb (117 kg) with recirculation



### Mounting

Supplied with base rails. Support rods not included.



### Electrical Requirements

230V/1p/60 Hz: FLA 8.8A, MCA 9.4A, MOP 15A

208V/1p/60 Hz (with field modification): FLA 9.6A, MCA 10.2A, 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 23°F (-5°C).

- Standard: Exhaust Defrost
- Optional: Recirculation Defrost (P/N 683960)



### Blowers

Four backward-inclined motorized impeller, direct drive EC motor, variable speed, external rotor.



### Filters

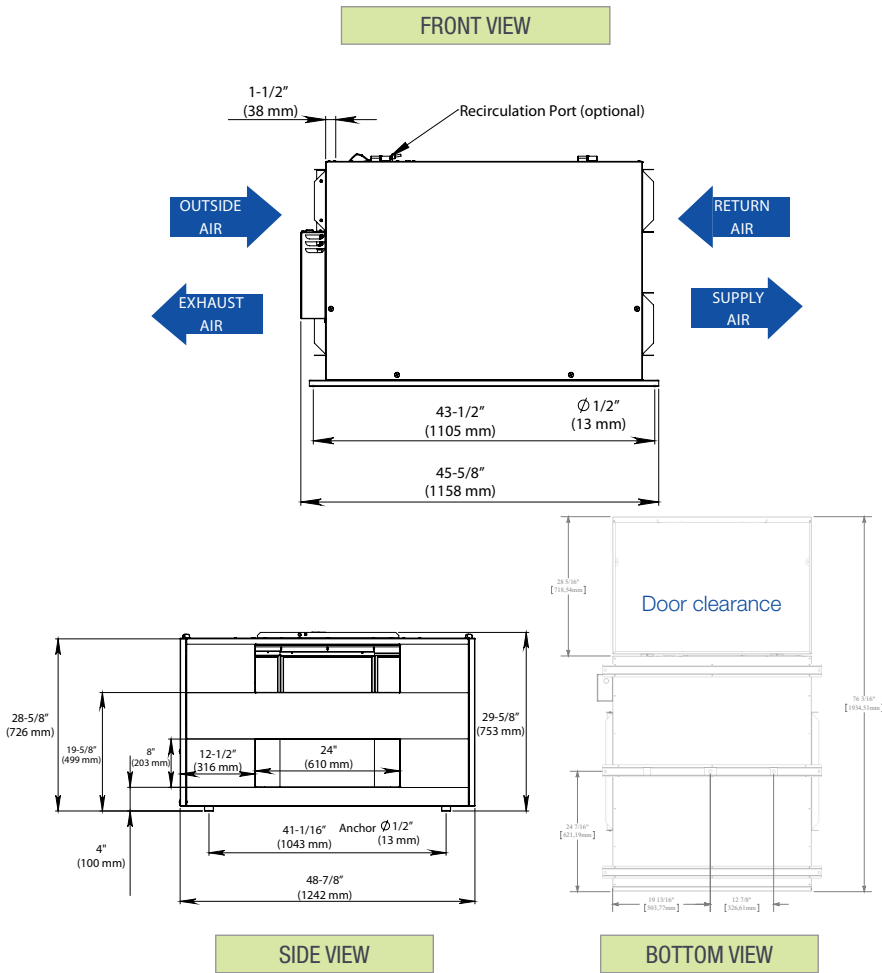
Type : Aluminum (P/N 683907)

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

#### Additional Air Pressure Drop with Optional Filters

Filter Type	Airflow CFM (L/S)	
	1000 (472)	1800 (850)
MERV 8	0.08	0.22
Charcoal	0.08	0.22
High Efficiency	0.35	0.63

# Dimensions



# Controls

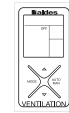
0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

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

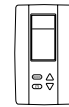
- Occupancy Control (On/Off)
- Interlock contacts
- Optional Recirculation Mode

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)



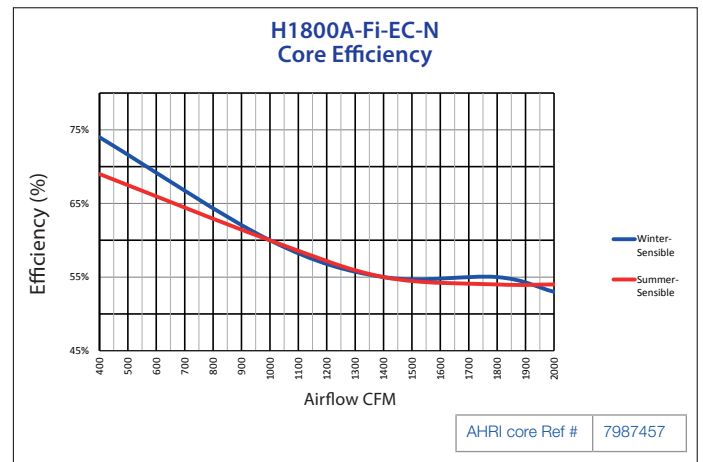
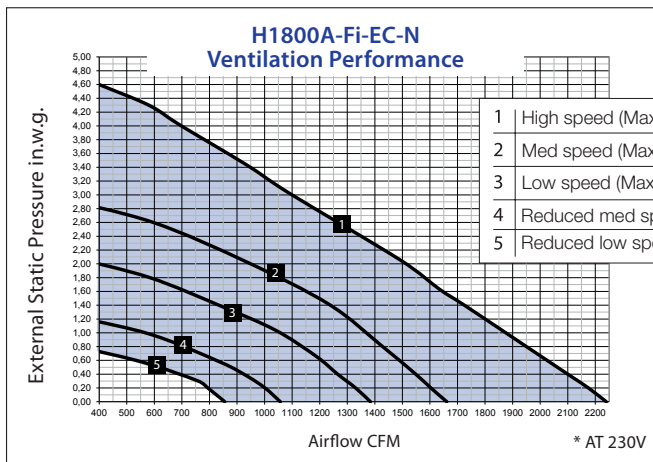
Speed Control (Low/Intermittent/High) (P/N 611229)



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

BACnet™ interface (P/N 611235)

# Performance



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

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