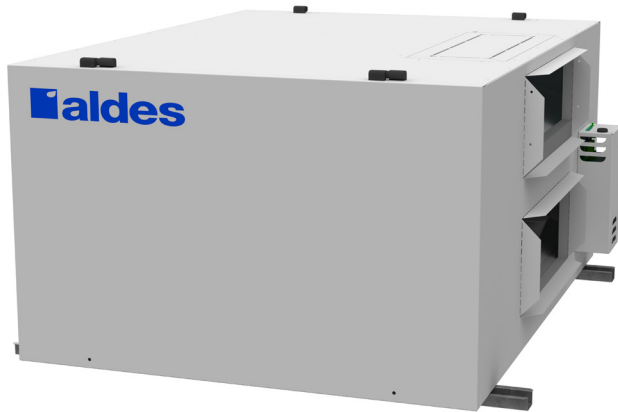




LIGHT COMMERCIAL E1100-Fi & E1100-Ri Energy Recovery Ventilator 300-1450 CFM Range

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



E1100-Fi & E1100-Ri

The E1100 energy recovery ventilator provides high-efficiency energy recovery. The unit uses a polymeric membrane core that can withstand a wide range of environmental conditions. The E1100 produces approximately **1400 CFM** at 0.20 in.w.g (ESP). It is powerful enough for restaurants, offices, and other small businesses.

The E1100 is ideal for cold-weather applications. The E1100-Fi shuts down the fan for the outdoor air supply during defrost cycles, while the E1100-Ri uses a fifth port with a motorized damper to defrost the core with recirculated warm air from inside the building.

FEATURES

- Plate-type polymeric membrane cores
- Quiet operation
- Multiple filter options
- Efficient and economical operation
- Indoor application

CASING

Material: Painted galvanized steel
Insulation: 1" R4 rated
Drain Connection: Ø 1/2" (Ø 13 mm)
Duct Connections: 20" x 8" (508 mm x 203 mm)
Width: 36-1/4" (921 mm)
Height: 23-7/8" (606 mm)
Depth: 47-1/4" (1200 mm)
Unit Weight: 204 lbs (93 kg)
214 lbs (97 kg) with recirculation
Shipping Weight: 259 lbs (117 kg)
269 lbs (122 kg) with recirculation

PLATE EXCHANGER

Standard: Polymeric Membrane
(sensible and latent heat transfer)
Quantity: 3
Pitch: 0.10" (2.5 mm)
Dimensions: 12" x 12" x 15" (305 mm x 305 mm x 381 mm)



MOUNTING

Supplied with base rails. Support rod by others.

BLOWERS

Quantity: 4
Type: Backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor

FILTERS

Number: 6
Type: Aluminum (P/N: 683951)
Optional: MERV 8 (P/N: 683952), Carbon (P/N: 683953), or High Efficiency/MERV13 Equivalent (P/N: 683954)

Additional Air Pressure Drop with Optional Filters				
Filter Type	Airflow CFM (m³/h)			
	500 (850)	800 (1360)	1100 (1870)	1400 (2380)
MERV 8	0.04	0.08	0.15	0.22
Carbon	0.04	0.08	0.15	0.22
High Efficiency	0.22	0.35	0.48	0.63

ELECTRICAL REQUIREMENTS

120 VAC, 60 Hz, 10.5 A

FROST CONTROL

Cycles controlled by a temperature sensor when outdoor temperatures fall below 14°F (-10°C).

- Standard: Exhaust Defrost (E1100-Fi)
- Optional: Recirculation Defrost (E1100-Ri)

CONTROLS

24 VAC, 10 VA output for supply and exhaust dampers

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

- Occupancy Control (start/stop)
- Fan Interlock (NO and NC)
- Speed Selection
- Exhaust/Recirculation (with E1100-Ri)

Compatible With:

- Digital Multifunction Control (P/N: 611242FC)
- Mode Control (exchange or recirculation) (P/N: 611230)
- Humidity Control (P/N: 611224)
- Speed Control (Low/Intermittent/High) (P/N: 611229)
- 20/40/60 Minute Timer (P/N: 611228)

APPROVALS

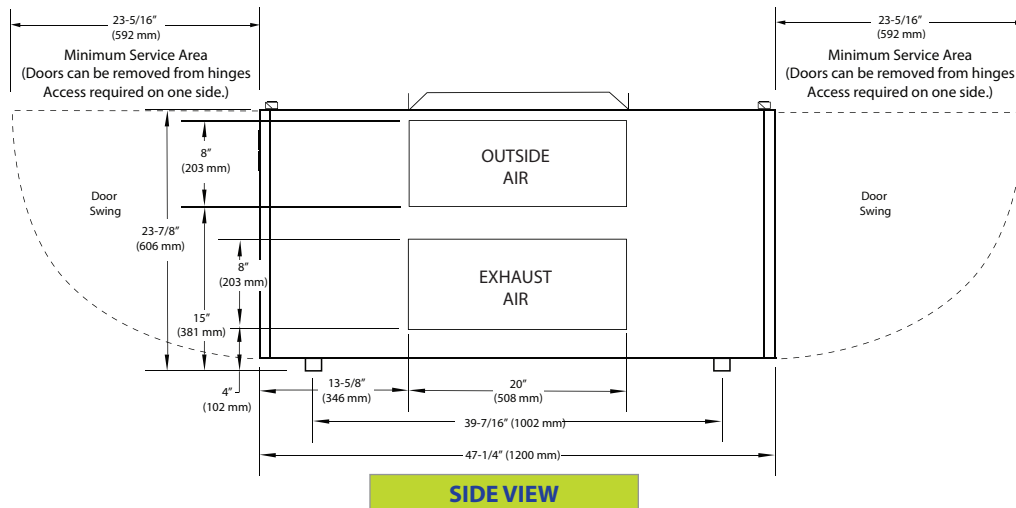
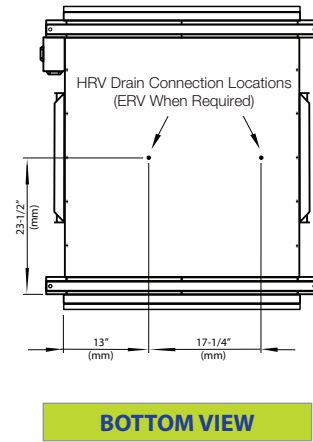
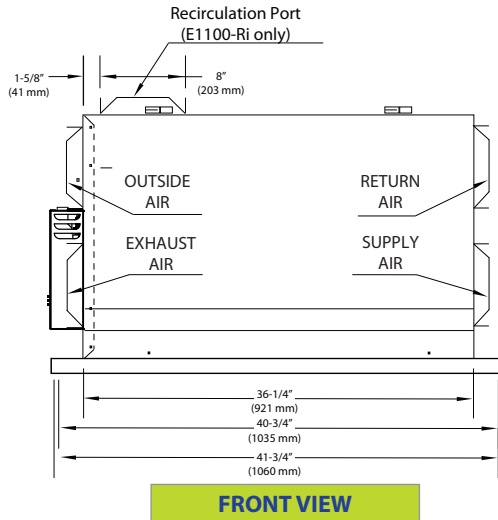
Meets Standards:

- UL 1812 and C22.2 no113

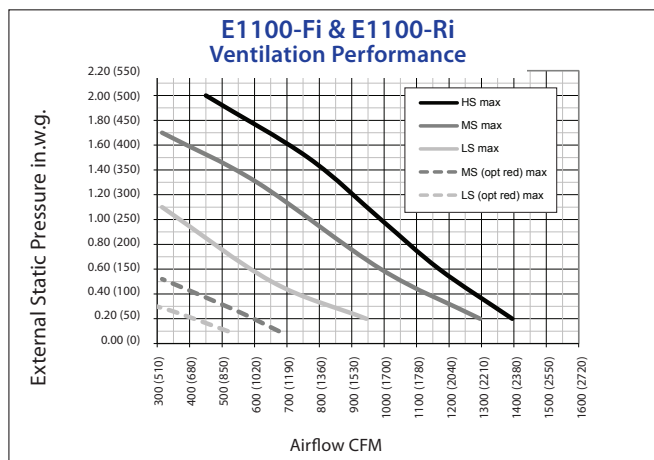
Listed:



Dimensions



Performance



	Sensible Recovery %	Latent Recovery %	Total Recovery %
100 % Air Flow Cooling	68%	40%	59%
75 % Air Flow Cooling	71%	45%	62%
100% Air Flow Heating	68%	37%	49%
75 % Air Flow Heating	71%	41%	53%
AHRI Core Reference Number	8315766		

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