



LIGHT COMMERCIAL E1800L-Fi-EC & E1800L-Ri-EC Energy Recovery Ventilator 400-2000 CFM Range

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



E1800L-Fi-EC & E1800L-Ri-EC

The E1800L-Fi-EC and E1800L-Ri-EC energy recovery ventilators provide up to 2000 CFM of fresh outdoor air while exhausting stale indoor air. The units make use of Aldes' AHRI Certified High Latent Transfer enthalpic cores that deliver superior moisture transfer and can be used in any climate zone. The highly efficient and quiet EC motors use on average 50-75% less electricity than typical PSC motors, significantly increasing return on investment.

The E1800L-Fi-EC and E1800L-Ri-EC is recommended for smaller 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 with removable access doors on both sides. The units also offer a choice of five continuous operation speeds and ademand-controlled high-speed exchange mode.

CASING

Material: Painted galvanized steel
Insulation: 1"(25 mm)
Drain Connection: Ø 1/2" (Ø 13 mm)
Duct Connections: 24" x 8" (610 mm x 203 mm)
Width: 45-5/8" (1158 mm)
Height: 29-5/8" (753 mm)
Depth: 48-7/8" (1242 mm)
Unit Weight: 245 lbs (111 kg); 258 lbs (117 kg) with recirculation
Shipping Weight: 300 lbs (136 kg)
313 lbs (142 kg) with recirculation

PLATE EXCHANGER

Standard: High Latent Transfer
(sensible and latent heat transfer)

Quantity: 3
Pitch: 0.13" (3.3 mm)
Dimensions: 16.34" x 16.34" x 15.67"
(415 mm x 415 mm x 398 mm)



MOUNTING

Supplied with base rails. Support rod by others.

BLOWERS

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

FILTERS

Number: 6
Type: Aluminum (P/N: 683901)
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)			
	600 (1020)	1000 (1700)	1400 (2380)	1800 (3060)
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

230V/ 1PH / 60 Hz, 9.1 A
208V/ 1PH / 60 Hz, 9.9 A
Supplied with 6' power cord with NEMA 6-15 plug

FROST CONTROL

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

- Standard: Exhaust Defrost (E1800L-Fi-EC)
- Optional: Recirculation Defrost (E1800L-Ri-EC)

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 E1800L-Ri-EC)

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)

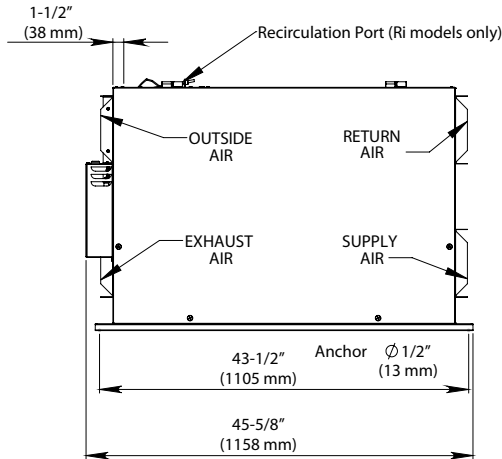
APPROVALS

Meets Standards:
• UL 1812 and C22.2 no113

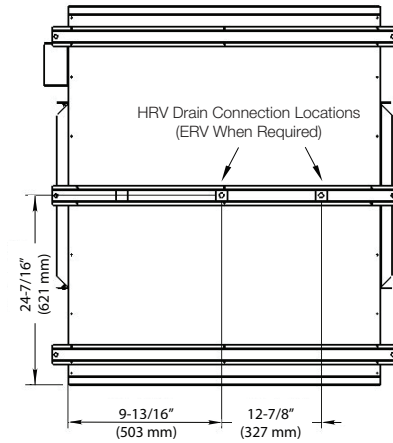
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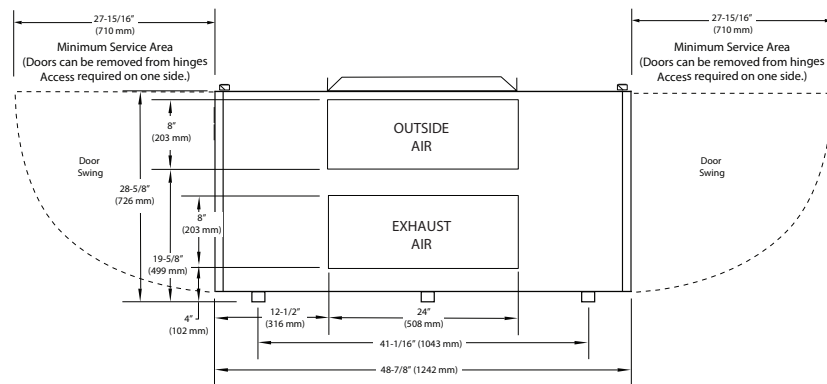
Dimensions



FRONT VIEW



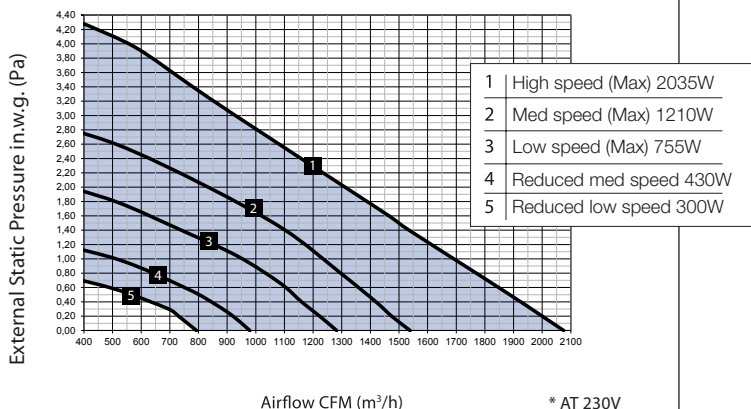
BOTTOM VIEW



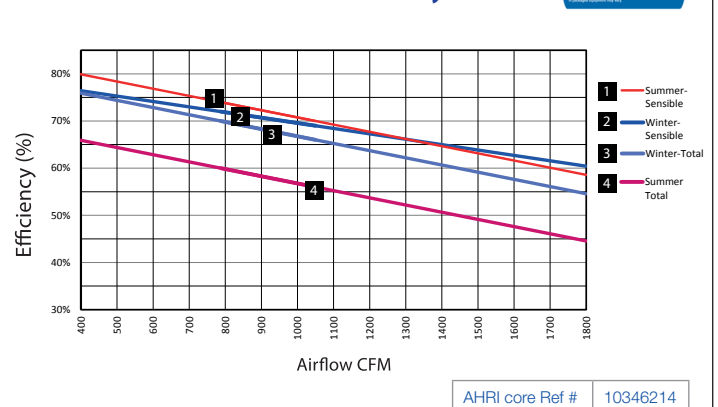
SIDE VIEW

Performance

E1800L-Fi-EC & E1800L-Ri-EC
Ventilation Performance



E1800L-Fi-EC & E1800L-Ri-EC
Core Efficiency



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