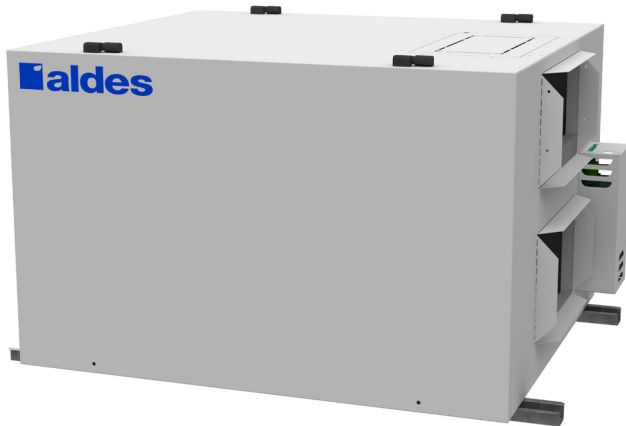




LIGHT COMMERCIAL
E650-Fi & E650-Ri
Energy Recovery Ventilator
200-725 CFM Range

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



E650-Fi & E650-Ri

The E650 energy recovery ventilator provides high-efficiency energy recovery. The unit uses a polymeric membrane enthalpic core that can withstand a wide range of environmental conditions. The E650 produces approximately **700 CFM** at 0.20 in.w.g (ESP). It is powerful enough for schools, restaurants, offices, and other small businesses.

The E650 is ideal for cold-weather applications. The E650-Fi shuts down the fan for the outdoor air supply during defrost cycles, while the E650-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: 14" x 8" (356 mm x 203 mm)
Width: 36-1/4" (921 mm)
Height: 23-7/8" (606 mm)
Depth: 32-1/8" (816 mm)
Unit Weight: 135 lbs (61 kg); 145 lbs (66 kg) with recirculation
Shipping Weight: 189 lbs (86 kg)
199 lbs (90 kg) with recirculation

PLATE EXCHANGER

Standard: Polymeric Membrane
(sensible and latent heat transfer)

Quantity: 2

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: 2

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

FILTERS

Number: 4

Type: Aluminum (P/N: 683901)

Optional: MERV 8 (P/N: 683902), Carbon (P/N: 683903), or High Efficiency/MERV13 Equivalent (P/N: 683904)

Additional Air Pressure Drop with Optional Filters				
Filter Type	Airflow CFM (m³/h)			
	300 (510)	500 (850)	700 (1190)	900 (1530)
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, 5.5 A

FROST CONTROL

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

- Standard: Exhaust Defrost (E650-Fi)
- Optional: Recirculation Defrost (E650-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 E650-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

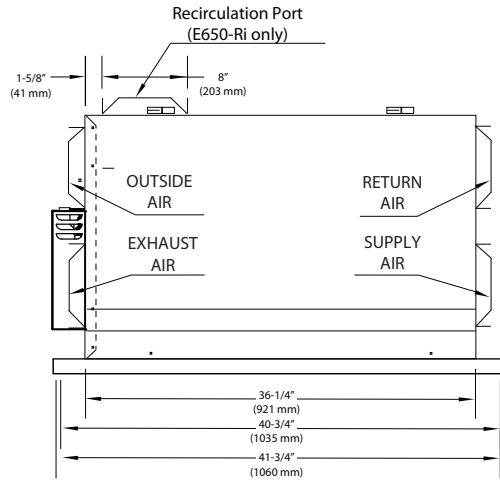
Meets Standards:

- UL 1812 and C22.2 no113

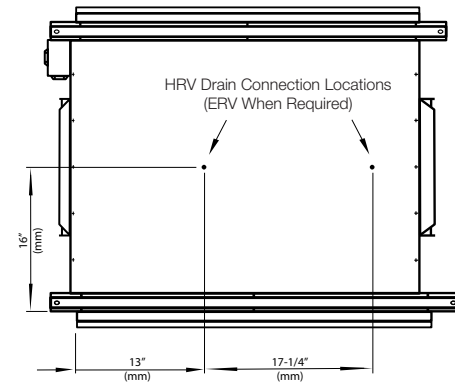
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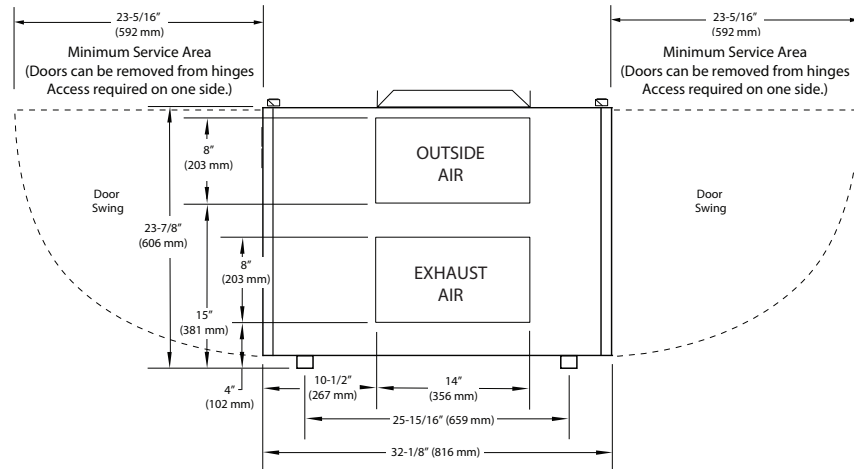
Dimensions



FRONT VIEW

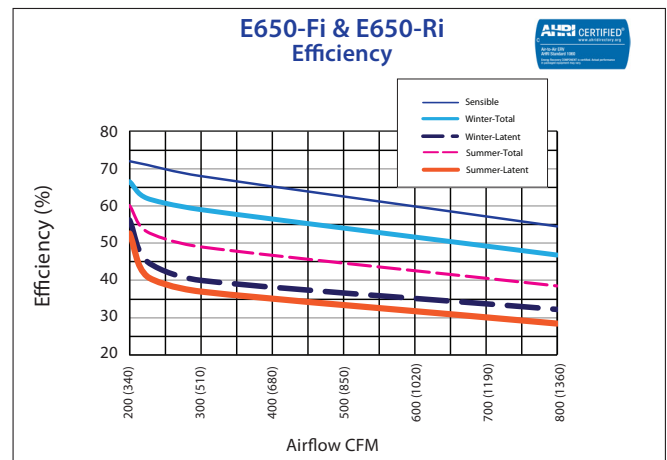
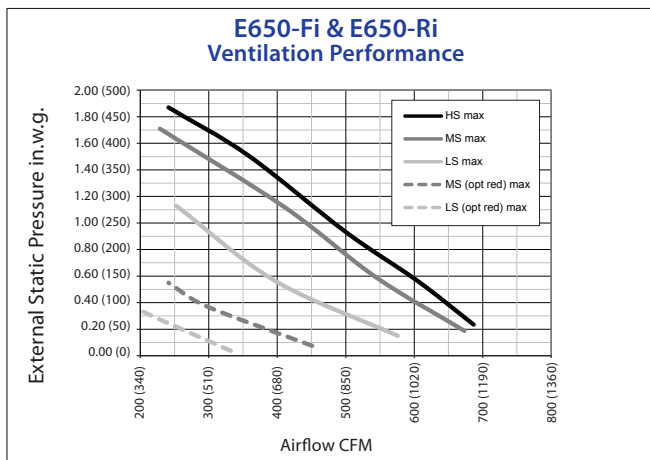


BOTTOM VIEW



SIDE VIEW

Performance



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