



INSPIRAIR® COMPACT

ERV

E130-HR-N

135 CFM at 0.20 in.w.g (ESP)
ENERGY RECOVERY VENTILATOR



UNIT CORE

PRODUCT DESCRIPTION

The ideal in-suite ventilation solution for high-rise construction, the E130-HR-N delivers exceptional performance in a compact, easy-to-install package only 9-1/4" in height. Easily concealed in a drop-ceiling or soffit, the E130-HR-N has been thoughtfully engineered for apartments, condos, and all dwellings that use concrete-slab construction. The E130-HR-N produces approximately **135 CFM** at 0.20 in.w.g (ESP), enough for even the largest units in multi-family construction.

The E130-HR-N includes Aldes' exclusive FLEXControl, electronic calibration that eliminates the need for balancing dampers and improves overall efficiency. Cold Supply Air Prevention (CSAP) stops air distribution to the dwelling for 135-minute cycles if the supply air temperature is below freezing, reducing the risk of damage to downstream equipment.

KEY FEATURES

Electronically and independently adjustable supply and exhaust blowers (FLEXControl)

Forward-curved impellers on totally enclosed motors

Horizontal configuration for flexible mounting

Drainless for simplified installation

Easy access to core and filters for cleaning

Multiple low-voltage controller options



Recovery Core

Material: High-latent-transfer (HLT)

Casing

Material: Pre-painted 24-gauge galvanized steel

Drain Connection: None

Duct Connections: 5" (127 mm)

Insulation: 1" (25 mm) Fiberglass with FSK and polystyrene

Length: 24-1/8" (613 mm)

Height: 9-1/4" (235 mm)

Width: 22-1/4" (565 mm)

Weight: 35 lbs (16 kg); Shipping Weight: 41 lbs (19 kg)

Supply Damper: Motorized; Exhaust Damper: Gravity



Mounting

Ceiling mount brackets (included) and optional chains (P/N 609051).



Electrical requirement

120 VAC, 60 Hz, 1.6 A, 192 W



Frost control

Automatic timed recirculation

Cycles controlled by a temperature sensor when the outdoor temperature drops below 14°F (-10°C)



Filters

Type : 2 Washable Foam 20 ppi (P/N: 612405)

Optional (sold separately): Washable MERV8 (P/N: 683961), or High Efficiency/MERV13 Equivalent (P/N: 612407)

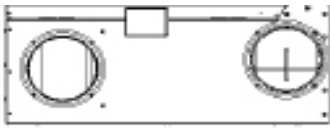


Blowers

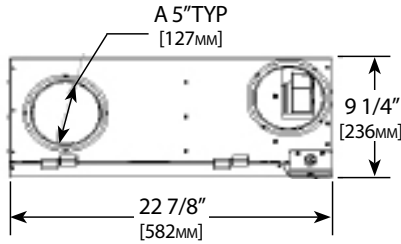
Two motorized impeller (forward-curved)

| Acoustic Performance | | | |
|----------------------|----------|------------|-------------|
| Airflow | Radiated | Supply Air | Exhaust Air |
| 50 CFM | 32 dBA | 27 dBA | 20 dBA |
| 125CFM | 44 dBA | 41 dBA | 30 dBA |

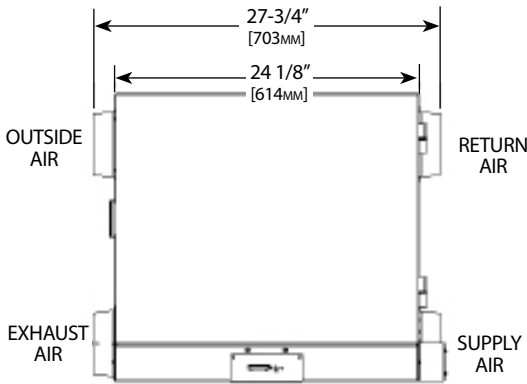
Dimensions



SIDE VIEW (LEFT)



SIDE VIEW (RIGHT)



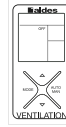
BOTTOM VIEW



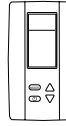
OPTIONAL FILTERS (SOLD SEPARATELY)
 MERV8:
 add 0.1" w.g.
 High Efficiency:
 add 0.2" w.g.

Controls

Low voltage dry contact (24VAC) for interlock with heating/cooling systems.



Digital Multifunction Control (#611242-FC)



LCD Electronic Multifunction Control (P/N 611227)



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

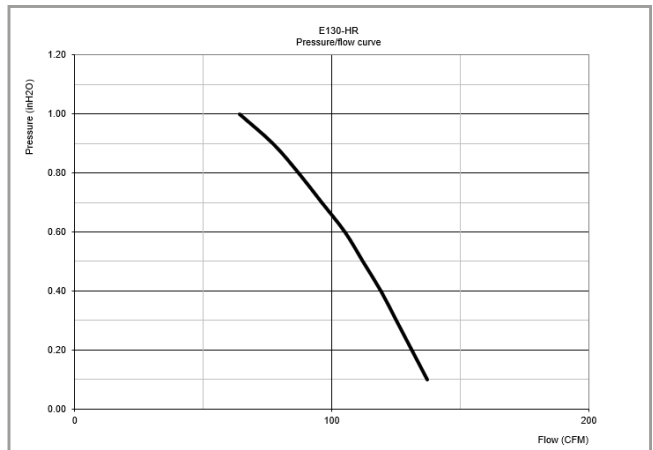


Speed Control (Low/Intermittent/High) (P/N 611229)

Performance

| Recovery Performance – E130-HR-N | | | | | | | | |
|----------------------------------|-----|-------------|-----|--------------------|------------------------------|---------------------------------------|-------------------------------------|---------------------------|
| Outside Air Temperature | | Net Airflow | | Power Consumed (W) | Sensible Recovery Efficiency | Adjusted Sensible Recovery Efficiency | Latent Recovery / Moisture Transfer | Total Recovery Efficiency |
| °F | °C | CFM | L/s | | | | | |
| Heating | | | | | | | | |
| 32 | 0 | 51 | 24 | 60 | 71% | 79% | 67% | -- |
| 32 | 0 | 65 | 31 | 76 | 67% | 75% | 62% | -- |
| 32 | 0 | 100 | 47 | 132 | 61% | 69% | 54% | -- |
| -13 | -25 | 53 | 25 | 88 | 55% | 59% | 57% | -- |
| Cooling | | | | | | | | |
| 95 | 35 | 51 | 24 | 64 | -- | -- | 47% | 48% |

E130-HR-N Ventilation Performance



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

For more information, contact your Aldes sales advisor, visit aldes-na.com, call 1.800.255.7749, or find us on



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