



# INSPIRAIR® COMPACT

## ERV

### E130-HRX-N

ENERGY RECOVERY VENTILATOR  
145 CFM at 0.4 in.w.g (ESP)



UNIT

CORE

### PRODUCT DESCRIPTION

The ideal in-suite ventilation solution for high-rise construction, the E130-HRX-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-HRX-N has been thoughtfully engineered for apartments, condos, and all dwellings that use concrete-slab construction. The E130-HRX-N delivers up to **145 CFM** of fresh air at 0.40 in.w.g (ESP), enough for even the largest units in multi-family construction.

The E130-HRX-N includes EC motors, 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.



### 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: 22-3/4" (578 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, 2.46 A, 145 W



### Frost control

Automatic timed integral exhaust defrost  
 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)

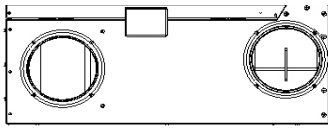
### KEY FEATURES

- Electronically and independently adjustable supply and exhaust blowers (FLEXControl)
- Forward-curved impellers on totally enclosed EC motors
- Horizontal configuration for flexible mounting
- Twist-in collars for easy flex-duct attachment
- Easy access to core and filters for cleaning
- Durable High Latent Transfer enthalpy core has exceptional moisture transfer for increased comfort, and no drain is required.

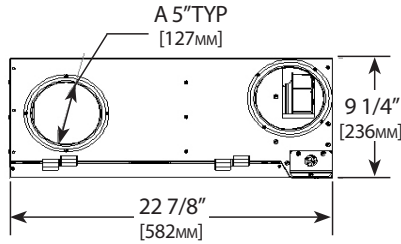
Acoustic Performance			
Airflow	Radiated	Supply Air	Exhaust Air
50 CFM	36 dBA	30 dBA	20 dBA
146CFM	49 dBA	46 dBA	38 dBA

Based on HVI Publication 915, using insulated flexible duct.

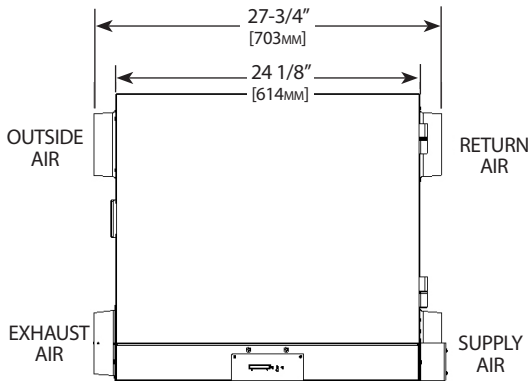
# Dimensions



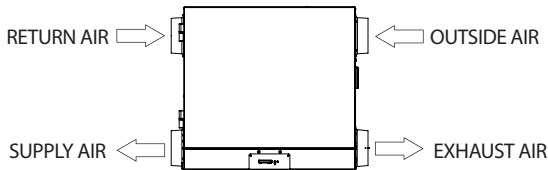
SIDE VIEW (LEFT)



SIDE VIEW (RIGHT)



BOTTOM VIEW



MIRROR VERSION  
E130-HRX-N-M

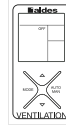
Project:	
Location:	
Model #:	
Quantity:	
Submitted By:	
Date:	
Architect:	
Engineer:	
Contractor:	
Comments:	



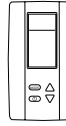
OPTIONAL FILTERS  
(SOLD SEPARATELY)  
MERV8:  
add 0.1" w.g.  
High Efficiency:  
add 0.2" w.g.

# 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)



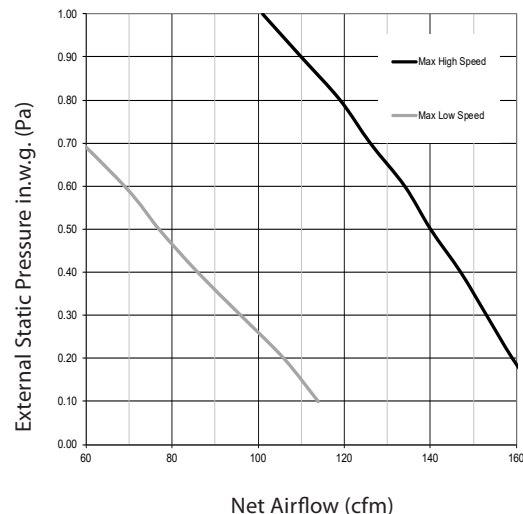
Speed Control (Low/Intermittent/High)  
(P/N 611229)

# Performance

## Recovery Performance – E130-HRX-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					
<b>Heating</b>								
32	0	57	24	26	67%	71%	36%	--
32	0	66	31	32	65%	69%	38%	--
32	0	102	48	56	61%	64%	48%	--
-13	-25	64	30	53	52%	55%	55%	--
<b>Cooling</b>								
95	35	49	23	26	--	--	49%	53%

## E130-HRX-N Ventilation Performance



For more information, contact your Aldes sales advisor, visit [aldes-na.com](http://aldes-na.com), call 1.800.255.7749, or find us on



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