



# RESIDENTIAL

## ERV

### E80-HRX-N

ENERGY RECOVERY VENTILATOR  
(HARD-WIRED VENTILATOR)  
89 CFM at 0.20 in.w.g (ESP)



UNIT

CORE

### PRODUCT DESCRIPTION

The E80-HRX-N exchanges 89 CFM of air at 0.2 in.w.g (ESP), perfect for smaller dwellings in multi-unit residential buildings. The E80-HRX-N includes new EC motors FLEXControl: electronic calibration eliminates the need for balancing dampers and maximizes overall efficiency.

Recommendation : Ideal for small homes

### KEY FEATURES

Electronically and independently adjustable supply and exhaust blowers (FLEXControl)

Gauge ports on the door for fast and reliable airflow readings

Non-dust-loading backward-inclined impellers on totally enclosed motors

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 required.

Recirculating defrost protects the core from freezing without putting the dwelling into negative-pressure

Exclusive free cooling economizer mode reduces the need for air conditioning in the spring and fall

Junction box for direct connection to electric mains



### Recovery Core

Material: High-latent-transfer (HLT) enthalpy

### Casing

Material: Pre-painted 24-gauge galvanized steel

Drain Connection: None

Duct Connections: Ø 5" (Ø 127 mm)

Insulation: 1" (25 mm) Fiberglass with FSK

Width: 22" (559 mm)

Height: 9" (230 mm)

Height: 27" (686 mm)

Weight: 43 lbs (19.5 kg); Shipping Weight: 48 lbs (22 kg)

Supply Damper: Motorized



### Mounting

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



### Electrical requirement

120 VAC, 60 Hz, 1.46 A, 87W

Terminal block for direct wiring to the building's electrical system (For units with cord and plug please refer to model E80-HRX)



### Frost control

Automatic timed recirculation

Cycles controlled by a temperature sensor when the outdoor temperature drops below 18°F (-8°C)



### Filters

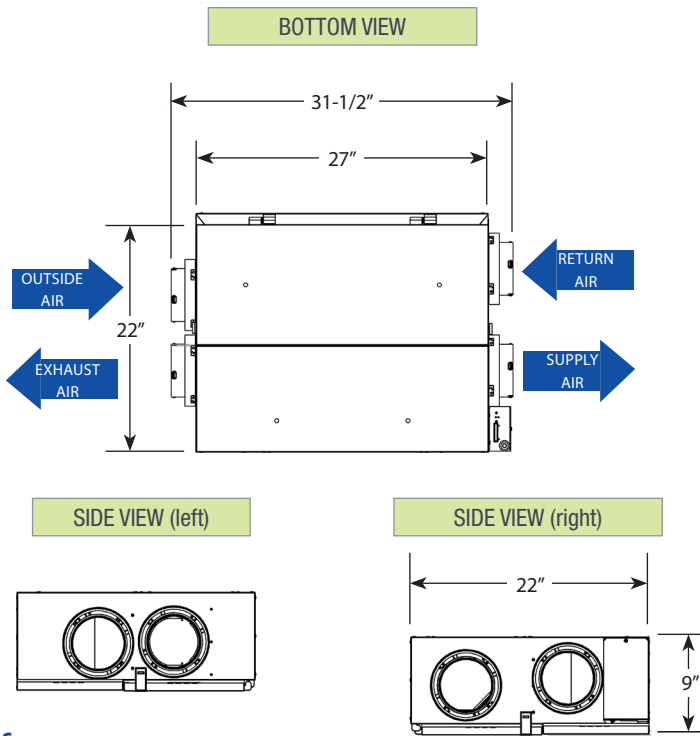
Type : MERV 6 (Two replacement filters, P/N: 612415)



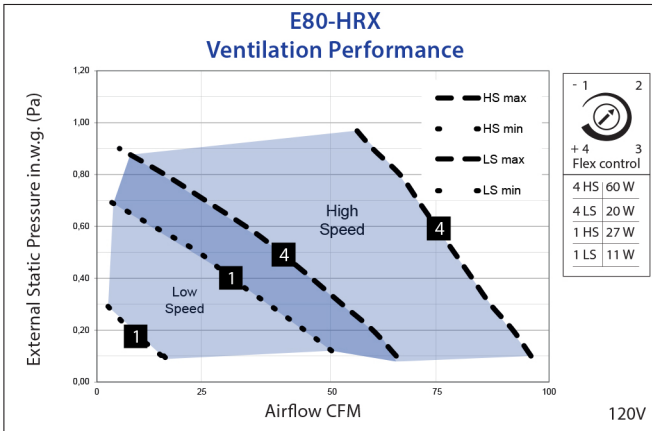
### Blowers

Two backward-inclined motorized impeller, direct-drive, EC motors, variable speed, external rotor

# Dimensions

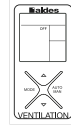


# Performance

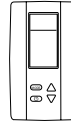


# Controls

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)



Mode Control (Recirculation) (P/N 611230)



## Acoustic Performance

Airflow	Radiated	Supply Air	Exhaust Air
50 CFM	36 dBA	34 dBA	30 dBA
81 CFM	42 dBA	38 dBA	31 dBA

Based on HVI Publication 915, using insulated flexible duct.

Supply Temperature		Net Airflow		Power Consumed (W)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Net Moisture Transfert	
°F	°C	CFM	L/s					
<b>Heating</b>								
32	0	51	24	22	75%	78%	0.69	
32	0	64	30	32	71%	75%	0.66	
32	0	81	38	46	69%	73%	0.63	
-13	-25	53	25	35	60%	62%	0.64	
<b>Cooling</b>						TRE	ATRE	
95	35	51	24	22	61%	63%	0.58	

## Free Cooling Specifications – E80-HRX-N

Bypass Damper	Temperature In		Temperature Out	
	°F	°C	°F	°C
Open - Starts Free Cooling	>72°	>22°	>55° OR <66°	>13° OR <19°
Close - Starts Heat Recovery	<72°	<22°	<55° OR >66°	<13° OR >19°

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

