



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



Frost control

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



Filters

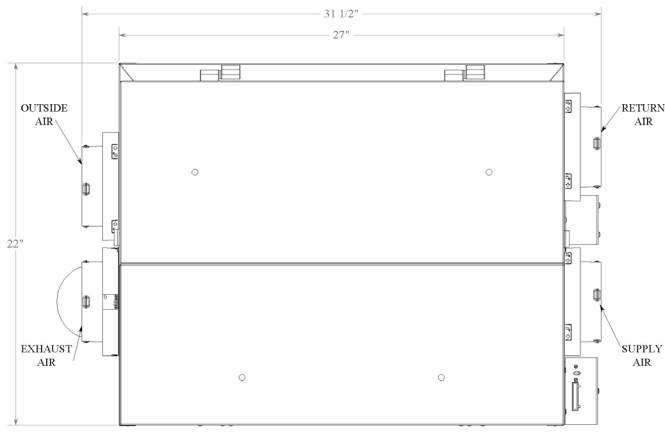
Type : MERV 6 (Two replacement filters, P/N 612415)



Blowers

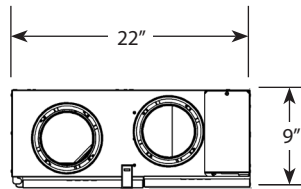
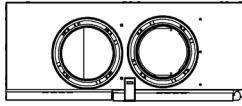
Two backward-inclined motorized impeller, direct-drive, EC motors, variable speed, external rotor

DIMENSIONS



SIDE VIEW (left)

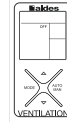
SIDE VIEW (right)



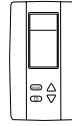
PERFORMANCE

CONTROLS

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



Digital Multifunction Control (P/N 611242-FC)



LCD Electronic Multifunction Control (P/N 611227)



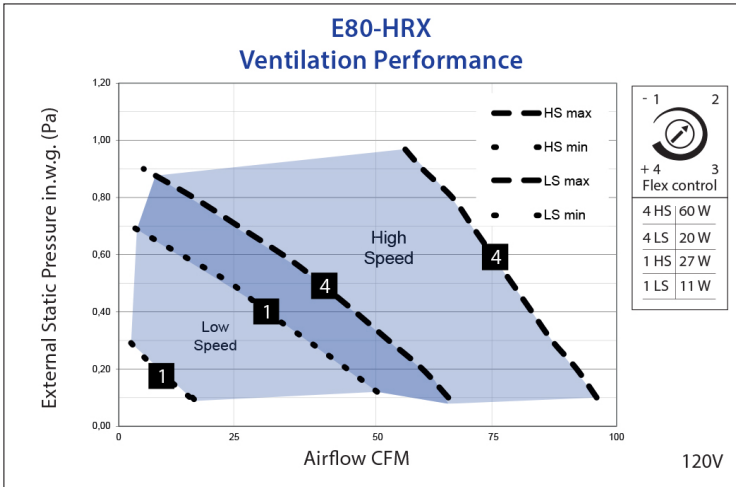
20/40/60 Minute Timer (P/N 611228)



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



Mode Control (Recirculation) (P/N 611230)



Recovery Performance – E80-HRX-N								
Outside Air Temperature		Net Airflow		Power Consumed (W)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Latent Recovery / Moisture Transfer	
°F	°C	CFM	L/s					
Heating								
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	
Cooling								
					TRE	ATRE		
95	35	51	24	22	61%	63%	0.58	

Free Cooling Specifications – E80-HRX-N								
Bypass Damper	Temperature In		Temperature Out		Net Airflow in Free Cooling Mode (CFM at 0.4 in. w.g.)			
	°F	°C	°F	°C	High Speed		Low Speed	
					CFM	L/s	CFM	L/S
Open - Starts Free Cooling	>72°	>22°	>55° OR <66°	>13° OR <19°	84	40	49	23
Close - Starts Heat Recovery	<72°	<22°	<55° OR >66°	<13° OR >19°	--	--	--	--

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

