



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

RESIDENTIAL ERV

E80-HRX-N

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



UNIT

CORE



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

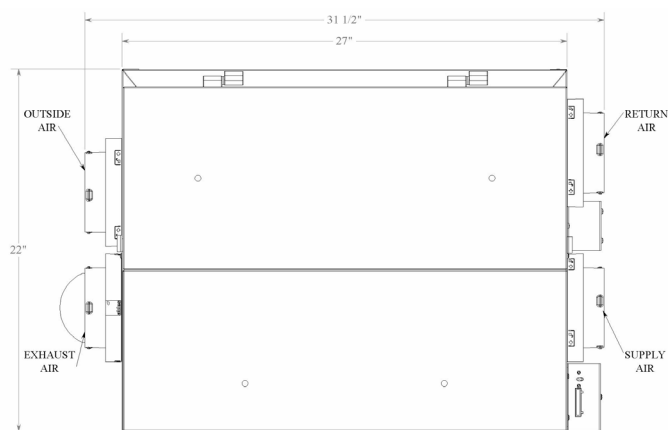
Type : MERV 6 (Two replacement filters, P/N: 612415)



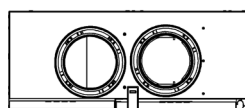
Blowers

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

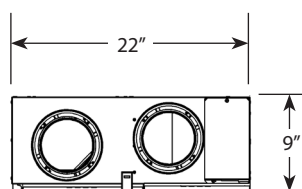
Dimensions



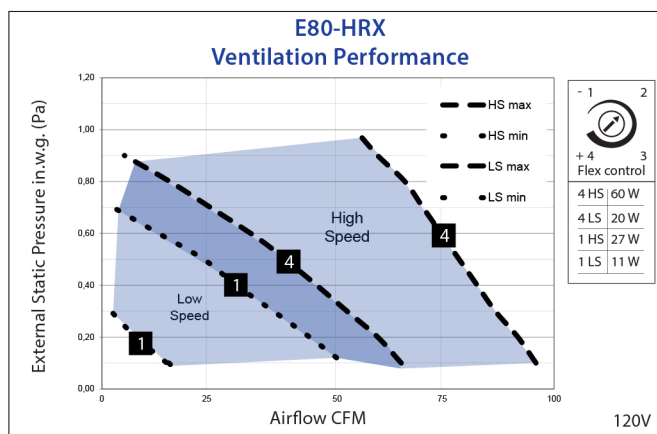
SIDE VIEW (left)



SIDE VIEW (right)



Performance



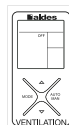
Acoustic Performance

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

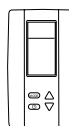
Based on HVI Publication 915, using insulated flexible duct.

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)



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

