





PRODUCT DESCRIPTION

The E80-HRX exchanges 89 CFM of air at 0.2 in.w.g (ESP), perfect for smaller dwellings in multi-unit residential buildings. The E80-HRX includes new EC motors Aldes' FLEXControl, electronic calibration that 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

RESIDENTIAL

ERV

E80-HRX

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









UNIT

CORE



Recovery Core

Material: High-latent-transfer (HLT) enthalpy

Casina

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

Cord Set: 36" (914 mm) with ground



Frost control

Automatic timed recirculation

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



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



Blowers

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

Dimensions

BOTTOM VIEW 31-1/2" 27" EXHAUST AIR SIDE VIEW (left) SIDE VIEW (right) 9"

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)

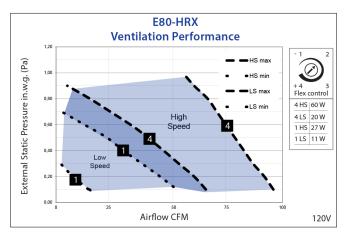


Mode Control (Recirculation) (P/N 611230)





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.

Supply Temperature		Net Airflow		Power	Sensible	Adjusted Sensible	Net
°F	°C	CFM	L/s	Consumed (W)	Recovery Efficiency	Recovery Efficiency	Moisture Transfer
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									
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°					





