



RESIDENTIAL

ERV

E80-HRX

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



UNIT

CORE

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



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
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)



Filters

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



Blowers

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

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

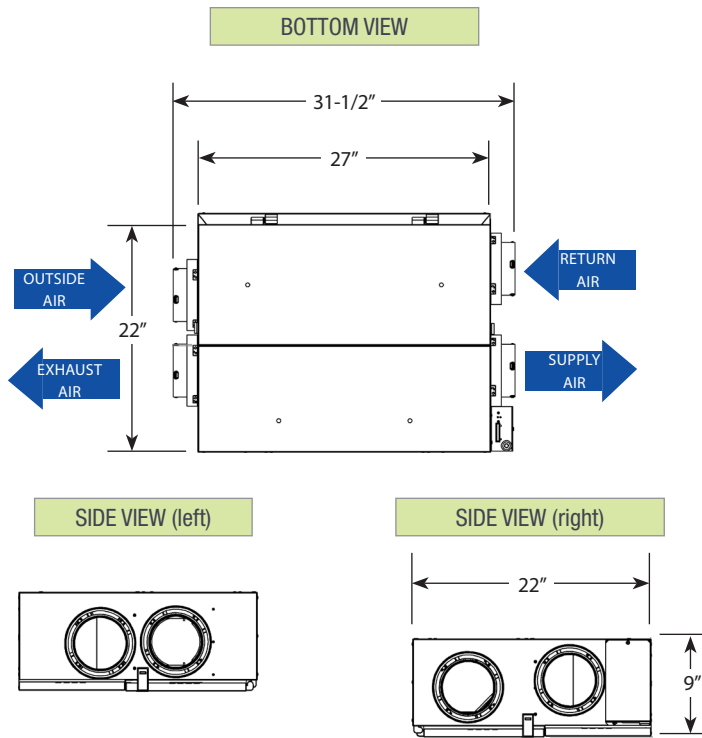
Easy access to core and filters for cleaning

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

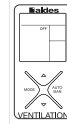
Exclusive free cooling economizer mode reduces the need for air conditioning in the spring and fall

DIMENSIONS

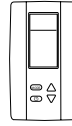


CONTROLS

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)

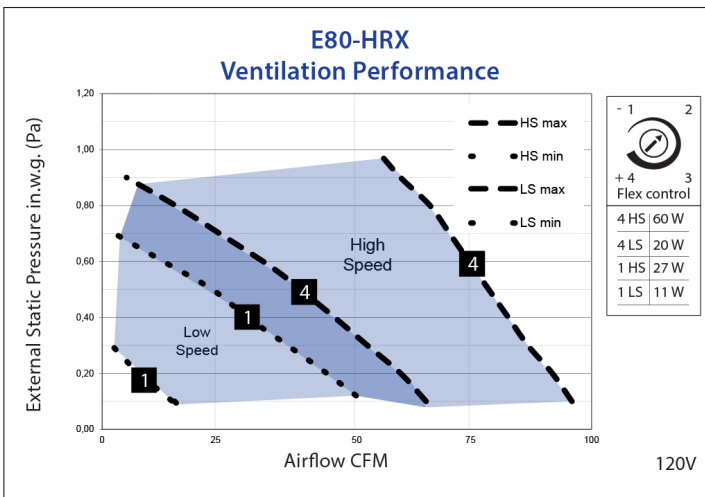


Speed Control (Low/Intermittent/High) (P/N 611229)



Mode Control (Recirculation) (P/N 611230)

PERFORMANCE



Recovery Performance – E80-HRX							
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								
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

