



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: \varnothing 5" (\varnothing 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

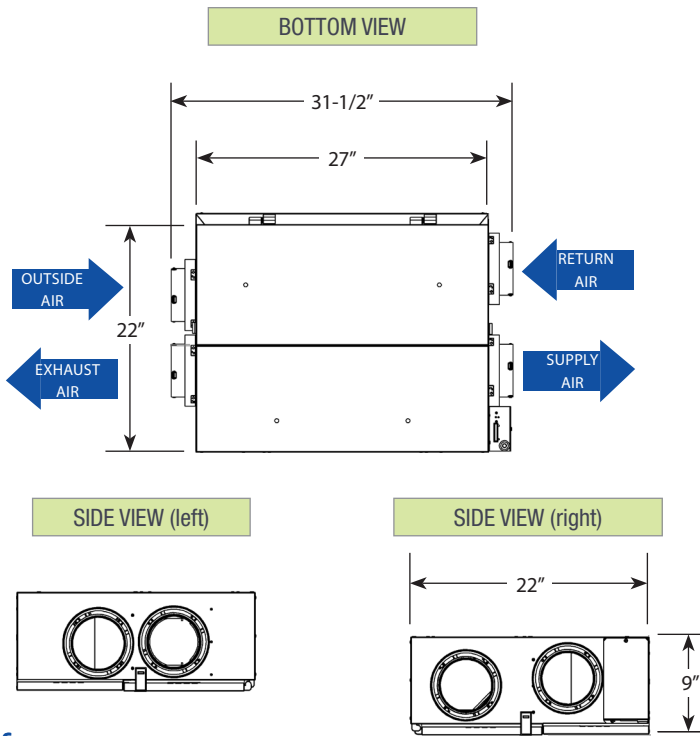
Type : MERV 6 (Two replacement filters, P/N: 612415)



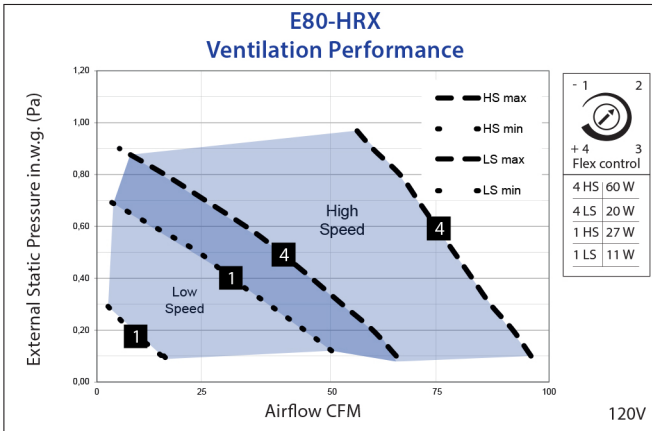
Blowers

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

Dimensions



Performance



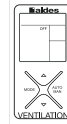
Acoustic Performance

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

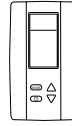
Based on HVI Publication 915, using insulated flexible duct.

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)



C22.2 no113
UL 1812

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

