



## PRODUCT DESCRIPTION

The E80-HRG-M exchanges 74 CFM of air at 0.2 in.w.g (ESP), perfect for smaller dwellings in multi-unit residential buildings. The E80-HRG-M includes 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

# INSPIRAIR® COMPACT

## ERV

### E80-HRG-M

ENERGY RECOVERY VENTILATOR

74 CFM at 0.20 in.w.g (ESP)



UNIT

CORE



### Recovery Core

Material: High-latent-transfer (HLT) fixed plate enthalpic core

### Casing

Material: Pre-painted 24-gauge galvanized steel

Drain Connection: None

Duct Connections: 5" (127 mm)

Insulation: 1" (25 mm)

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, 0.6 A, 72W (MAX)

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

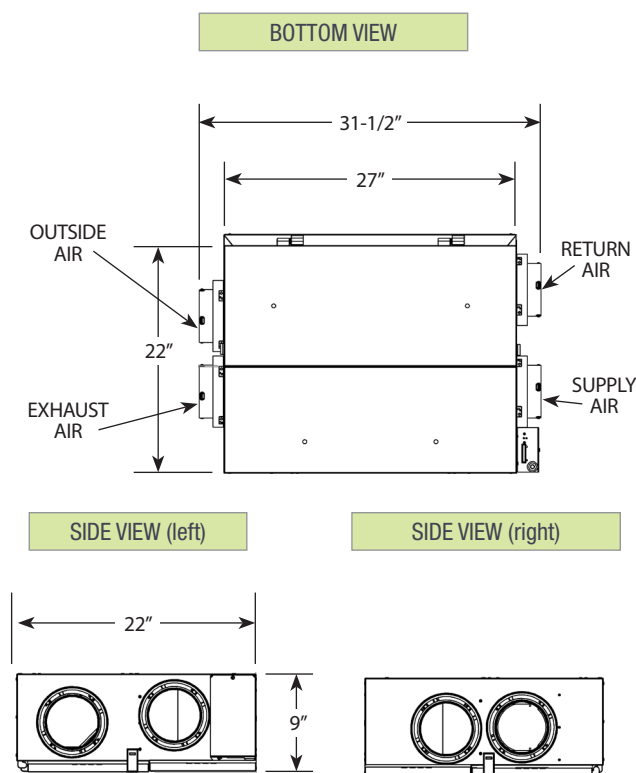
Type : MERV 6 (Two replacement filters, P/N: 612415)



### Blowers

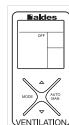
Two motorized impeller (backward-inclined)

## Dimensions

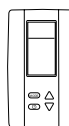


## Controls

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)

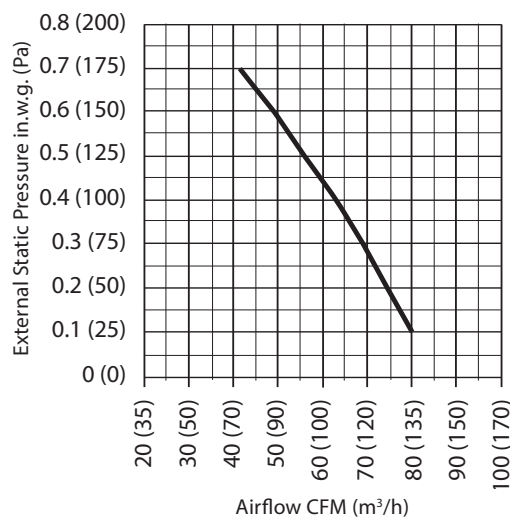


Speed Control (Low/Intermittent/High)  
(P/N 611229)



## Performance

**E80-HRG-M  
Ventilation Performance**



**Recovery Performance – E80-HRG-M**

| Supply Temperature |     | Net Airflow |     | Power Consumed (W) | Sensible Recovery Efficiency | Adjusted Sensible Recovery Efficiency | Latent Transfert |
|--------------------|-----|-------------|-----|--------------------|------------------------------|---------------------------------------|------------------|
| °F                 | °C  | CFM         | L/s |                    |                              |                                       |                  |
| Heating            |     |             |     |                    |                              |                                       |                  |
| 32                 | 0   | 55          | 26  | 34                 | 73%                          | 77%                                   | 0.63             |
| 32                 | 0   | 66          | 31  | 50                 | 70%                          | 76%                                   | 0.60             |
| 32                 | 0   | 81          | 38  | 70                 | 68%                          | 74%                                   | 0.56             |
| -13                | -25 | 55          | 26  | 54                 | 62%                          | 65%                                   | 0.64             |
| Cooling            |     |             |     |                    | TRE                          | ATRE                                  |                  |
| 95                 | 35  | 51          | 24  | 32                 | 65%                          | 67%                                   | 0.66             |

**Free Cooling Specifications – E80-HRG-M**

| 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° | 74   | 35  | 50        | 24  |
| Close - Starts Heat Recovery | <72°           | <22° | <55° OR >66°    | <13° OR >19° | --   | --  | --        | --  |

**Acoustic Performance**

| Airflow | Radiated | Supply Air | Exhaust Air |
|---------|----------|------------|-------------|
| 55 CFM  | 34 dBA   | 34 dBA     | 23 dBA      |
| 64 CFM  | 42 dBA   | 41 dBA     | 33 dBA      |

Based on HVI Publication 915, using insulated flexible duct.

For more information, contact your Aldes sales advisor, visit [aldes-na.com](http://aldes-na.com), call 1.800.255.7749, or find us on



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