InspirAIR® COMPACT

E80-HRG-N

Energy Recovery Ventilator

PRODUCT SPECIFICATIONS & TECHNICAL DATA

PRODUCT DESCRIPTION

The E80-HRG is the energy efficient, balanced in-suite ventilation solution that is ideal for multi-unit residential buildings. It delivers ENERGY STAR® qualified performance and a latent transfer of over 65% in a compact, easy-to-install package that is only 9 inches (230 mm) in height. Easily concealed in a drop-ceiling or soffit, the E80-HRG unit has been thoughtfully engineered for apartments, condominiums, and other dwellings. Exclusive free cooling economizer mode reduces the need for air conditioning in the spring and fall.

The E80-HRG exchanges **74 CFM** of air at 0.2 in.w.g (ESP), perfect for smaller dwellings in multi-unit residential buildings. The E80-HRG includes Aldes' exclusive EvacMAX™ on-demand boost for maximum ventilation, and FLEXControl electronic calibration that eliminates the need for balancing dampers while maximizing overall efficiency.

KEY FEATURES

- No drain required with Aldes' high performance HLT crossflow ERV core technology
- Up to 73% sensible recovery efficiency, a great choice for LEED-certified buildings
- Free cooling economizer mode
- Hassle-free balancing using the balancing chart, pressure taps in the door, and the independently adjustable supply and exhaust blowers (FLEXControl)
- Pressure-neutral cold climate frost protection using warm recirculated air
- Unique compact door allows easy access to the washable MERV 6 filters
- Optional EC Motor upgrade for additional energy savings (E80-HRX-N)

APPROVALS

Meets Standards:

- C22.2 no113 and UL 1812
- HVI Certified
- ENERGY STAR® (Canada)

CASING

Material: Pre-painted 24-gauge galvanized steel
Drain Connection: None
Duct Diameter: 5" (127 mm)
Insulation: 1" (25 mm)
Width: 22" (559 mm)
Height: 9" (230 mm)
Depth: 27" (686 mm)
Weight: 43 lbs (19.5 kg); Shipping Weight: 48 lbs (22 kg)
Supply Damper: Motorized

MOUNTING

- Suspended above the ceiling by chains with vibration-isolating springs (included)
- Optional ceiling mount kit available for quick installation

RECOVERY CORE

High-Latent-Transfer fixed plate enthalpic core by Aldes

BLOWERS

Quantity: 2
Type: Motorized impellers (backward-inclined)

ELECTRICAL REQUIREMENTS

120 VAC, 60 Hz, 0.6 A, 72 W (MAX)
Hard-wired

CONTROLS

Low voltage (24 VAC) for:

- Digital Multifunction Control (P/N: 611242-FC)
- Humidity Control (P/N: 611224)
- Speed Control (P/N: 611229)
- 20/40/60 Minute Timer (P/N: 611228)
- External dry contact interlock for forced air heating/cooling system

FROST CONTROL

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

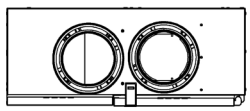
FILTERS

Quantity: 2
Type: MERV 6 (Two replacement filters, P/N: 612415)

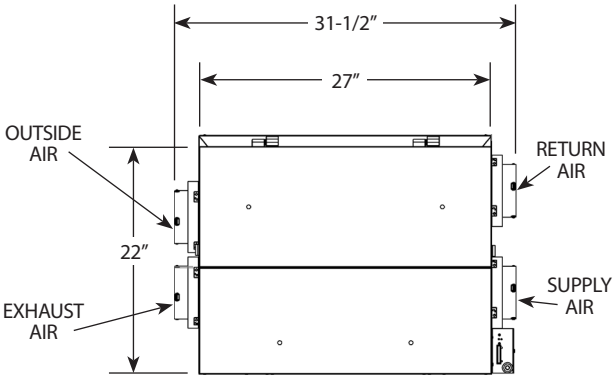
WARRANTY

Core Assembly: Limited 2-year warranty
All Other Covered Components: Limited 5-year warranty

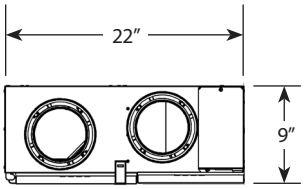
Dimensions



SIDE VIEW (LEFT)

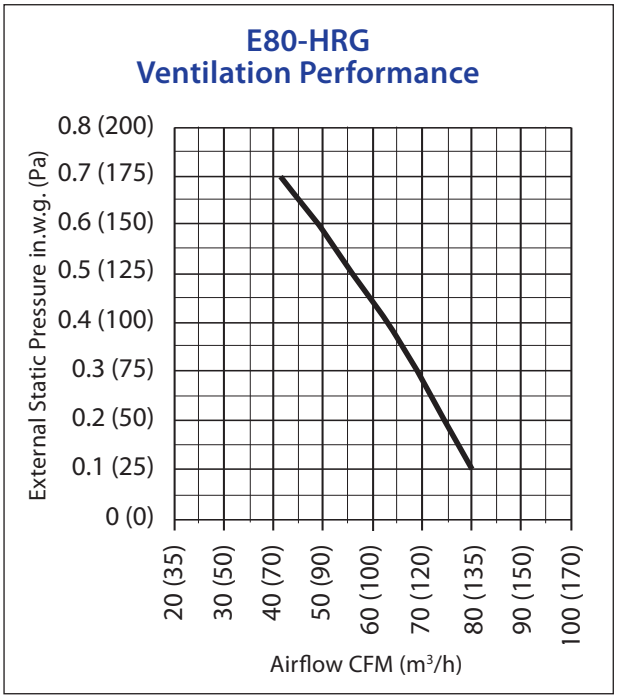


BOTTOM VIEW



SIDE VIEW (RIGHT)

Performance



Recovery Performance – E80-HRG

Supply Temperature		Net Airflow		Power Consumed (W)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Latent Transfer	Total Recovery Efficiency
°F	°C	CFM	L/s					
32	0	56	23	34	73%	81%	0.63	--
32	0	65	30	50	70%	79%	0.6	--
32	0	80	38	70	68%	77%	0.56	--
-13	-25	56	23	54	62%	78%	0.64	--
95	35	50	23	32	n/a	74%	0.66	65%

Free Cooling Economizer Mode Specifications – E80-HRG

Bypass Damper	Temperature Indoor		Temperature Outdoor		Net Airflow in Free Economizer Cooling Mode (CFM at 0.4 in. w.g)			
					High Speed		Low Speed	
	°F	°C	°F	°C	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°	--	--	--	--

Project:		**Architect:**	
Location:		**Engineer:**	
Model #:		**Contractor:**	
Quantity:		**Comments:**	
Submitted By:			
Date:			

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