



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)

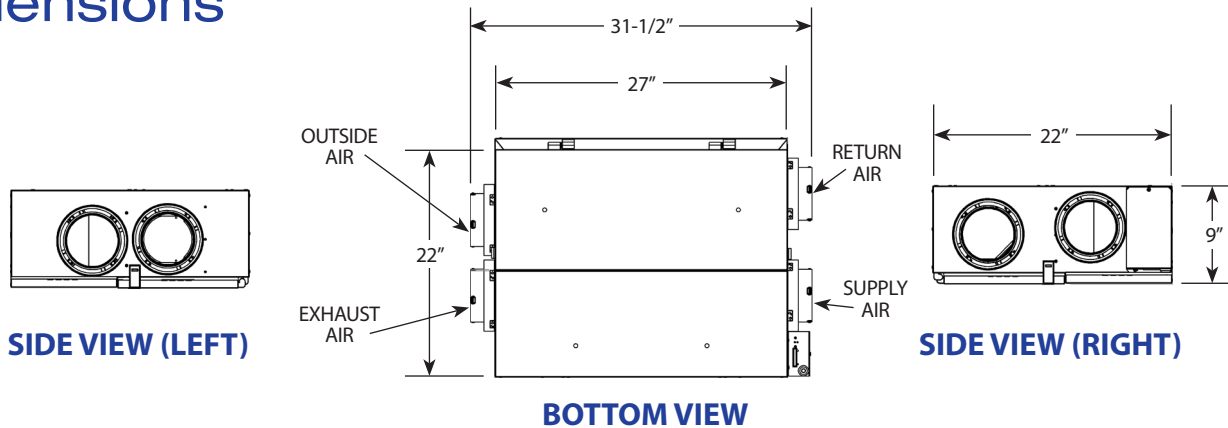
FILTERS

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

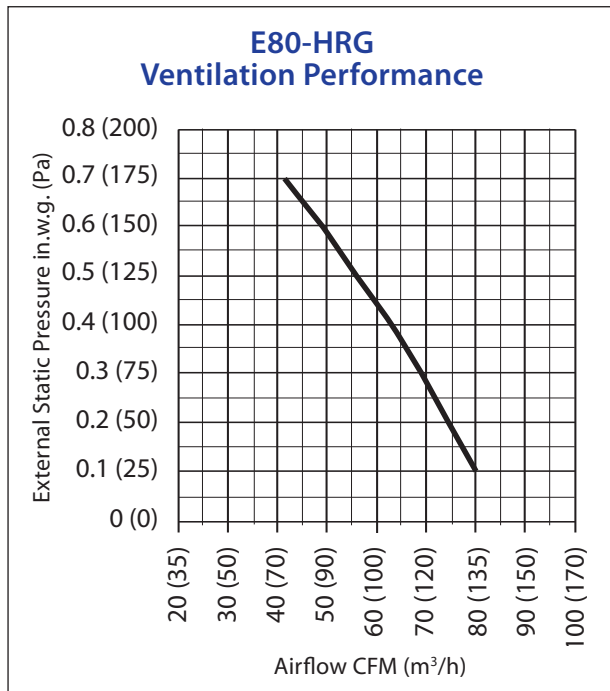
WARRANTY

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

Dimensions



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.)			
	°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°	--	--	--	--

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

© 2019 American ALDES Ventilation Corporation. Reproduction or distribution, in whole or in part, of this document, in any form or by any means, without the express written consent of American ALDES Ventilation Corporation, is strictly prohibited. The information contained within this document is subject to change without prior written notice.