Faldes



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Small spaces demand smart technology. ALDES InspirAIR® Compact Heat and Energy Recovery Ventilators (HRV/ERV) fit neatly into condos, apartments, and other multi-family dwellings. These units improve indoor comfort and reduce the building's energy use.

InspirAIR $^{\circ}$ E80-HRX-N features an EC Motor that saves up to 35% on electricity, compared to PSC Motors, and delivers 20% more airflow capacity.

PRODUCT DETAILS

- Rated for 73 CFM (H80-HF-N) and 74 CFM (E80-HF-N and E80-HRG-N) and 89 CFM (E80-HRX-N) at 0.2 in. w.g.
- Durable polypropylene core (H80-HF-N) or high-latent-transfer enthalpy core (E80-HF-N, E80-HRG-N, and E80-HRX-N).
- Horizontal configuration for flexible installation.
- Up to 73% sensible recovery efficiency (E80-HF-N, E80-HRG-N, and E80-HRX-N), a great choice for LEED-certified buildings.
- Hassle-free balancing using the balancing chart, pressure taps in the door, and the independently adjustable supply and exhaust blowers.
- Pressure-neutral cold climate frost protection using warm recirculated air (E80-HRG-N + E80-HRX-N).
- Unique compact door allows easy access to the washable MERV 6 filters (other filter options available).
- All models are HVI Certified and ETL Safety Listed.

KEY FEATURES

- Exclusive free cooling economizer mode reduces the need for air conditioning in the spring and fall (E80-HRG-N + E80-HRX-N).
- Compact size (9" tall) permits installation in tight spaces.
- FLEXControl electronically balances airflow circuits for simple, accurate installation.
- No drain required with ALDES's high-latent-transfer HLT crossflow ERV technology.

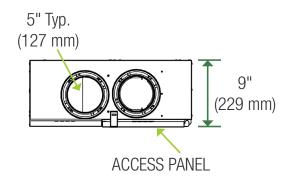




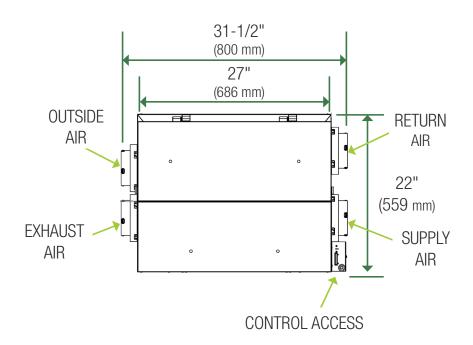


DIMENSIONS

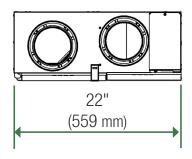
Side View (Left)



Bottom View



Side View (Right)

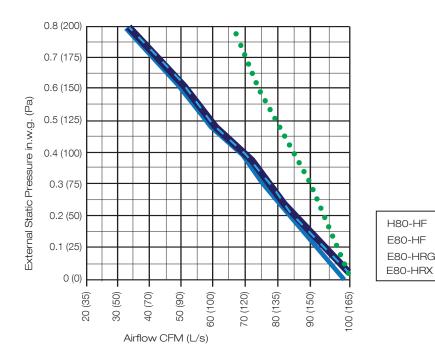


PERFORMANCE —

HVI CERTIFIED RECOVERY PERFORMANCE																	
MODEL	DEL H80-HF-N E80-HF-N E80-HRG				HRG-N			E80-HRX-N									
Outside Air	Heating			32°F 32°F		Cooling	Cooling Heating Cooling				Cooling	Heating			Cooling		
Temp.	32°F					-13°F (-25°C)	95°F 32°F (35°C) (0°C)			-13°F (-25°C)	95°F (35°C)						
CFM (L/s)	56 (26)	65 (30)	80 (38)	55 (26)	67 (32)	80 (38)	49 (23)	50 (24)	64 (30)	81 (38)	54 (25)	49 (23)	50 (24)	64 (30)	81 (38)	54 (25)	50 (24)
Sensible Recovery Efficiency	70%	67%	64%	73%	70%	68%		73%	70%	68%	62%		75%	71%	69%	60%	
Apparent Sensible Effectiveness	76%	74%	72%	80%	78%	76%	74%	81%	79%	77%	78%	74%	78%	75%	73%	62%	63%
Latent Recovery/ Moisture Transfer				61%	59%	55%	66%	63%	60%	58%	64%	66%	69%	66%	63%	64%	58%
Total Recovery Efficiency							64%					65%					61%

	FREE COOLING ECONOMIZER MODE SPECIFICATIONS										
Model	Bypass Damper	_	erature oor		erature door	Net Airflow in Free Cooling Economizer Mode (CFM at 0.4 in. w.g)					
						High \$	Speed	Low Speed			
		°F	°C	°F	°C	СҒМ	L/s	СҒМ	L/s		
E80-HRG-N	Open - Starts Free Cooling	>72°	>22°	>55° OR <66°	> 13° OR < 19°	80	38	49	23		
	Close - Starts Heat Recovery	< 72°	< 22°	< 55° OR > 66°	<13° OR >19°						
E80-HRX-N	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°						

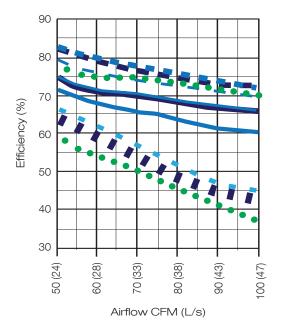
VENTILATION PERFORMANCE: 80 MODELS



H80-HF E80-HF

E80-HRG

RECOVERY PERFORMANCE: 80 MODELS







PRODUCT DETAILS

- Rated for 90 CFM (E130-HF-N), 125 CFM (E130-HR-N), and 145 CFM (E130-HRX-N) at 0.4 in. w.g.
- High Latent Transfer (HLT) enthalpy core.
- 120 VAC electrical requirements.
- Backward-inclined impellers.
- Bottom-hinged access panel.
- Appliance-grade steel cabinet with baked-enamel finish.
- Lightweight construction only 35 lb (16 kg).
- HVI Certified and ETL Safety Listed.

KEY FEATURES

- Compact size (9-1/4" tall) permits installation in tight spaces.
- FLEXControl electronically balances airflow circuits for simple, accurate installation.
- Automatic, timed recirculation defrost for use in extremely cold climates.
- Exhaust defrost for E130-HF-N.
- No condensate drain required.
- Efficient EC motors (E130-HRX-N).
- Available with outdoor air ducts on either side to simplify duct layouts.

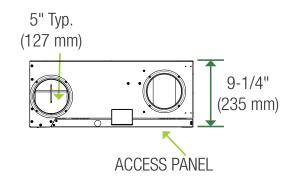




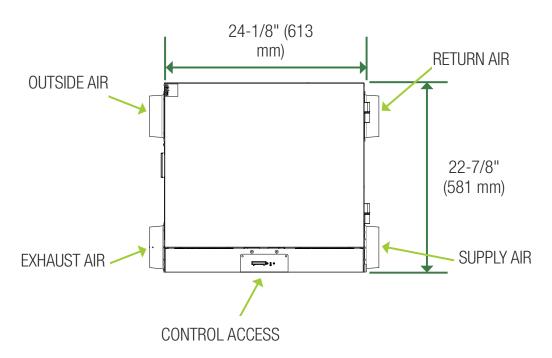


DIMENSIONS

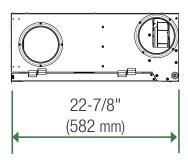
Side View (Left)



Bottom View



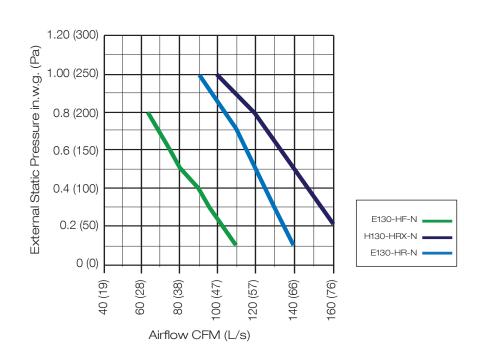
Side View (Right)



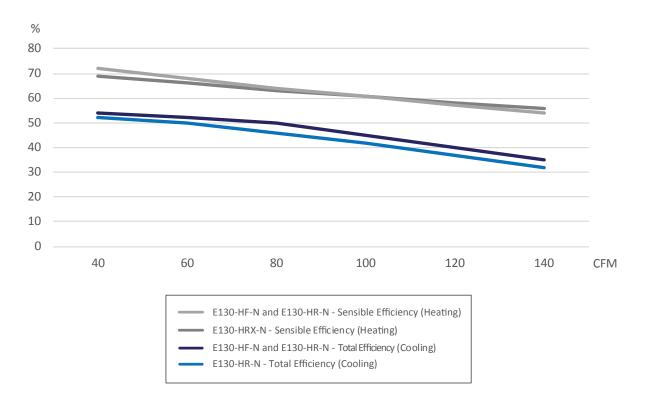
PERFORMANCE

HVI CERTIFIED RECOVERY PERFORMANCE											
MODEL		E130-HR-N E130-HRX-N									
		He	ating		Cooling		He	Cooling			
Outside Air Temp.		32°F (0°C)		-13°F (-25°C)	95°F (35°C)	32°F (0°C)			-13°F (-25°C)	95°F (35°C)	
CFM (L/s)	50 (24)	72 (34)	100 (47)	50 (24)	51 (24)	50 (24)	66 (31)	102 (48)	64 (30)	49 (23)	
Sensible Recovery Efficiency	70%	65%	61%	55%		67%	65%	61%	52%		
Adjusted Sensible Recovery Efficiency	81%	76%	71%	73%		71%	69%	64%	55%		
Latent Recovery/ Moisture Transfer	65%	59%	53%	57%	53%	36%	38%	48%	55%	49%	
Total Recovery Efficiency					51%					53%	

VENTILATION PERFORMANCE: 130 MODELS



RECOVERY PERFORMANCE: 130 MODELS



INSTALLATION

InspirAIR® Compact units are slim in height, ideal for horizontal installations above ceilings and in narrow plenum spaces. Both, the 80 and 130 models are also narrow enough to easily fit between joists and other structural supports.

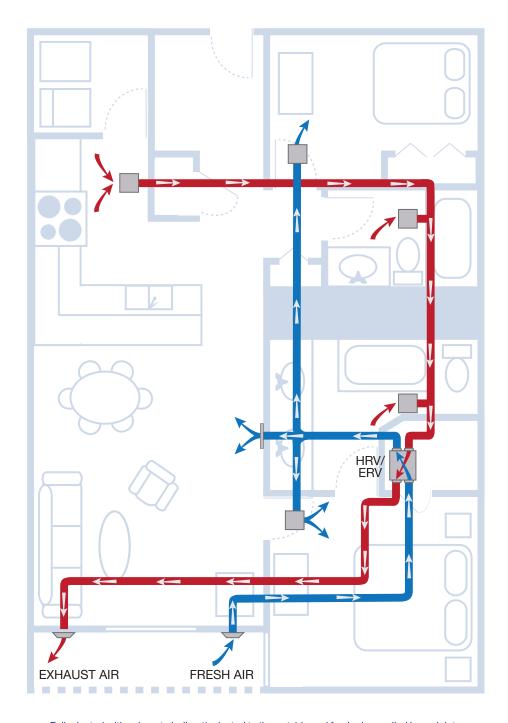


APPLICATION

In the diagrams below, the InspirAIR® Compact HRV or ERV is mounted in the ceiling of the master bedroom closet.

The blue lines indicate the flow of fresh air for supply and the red lines indicate the flow of stale air for exhaust.

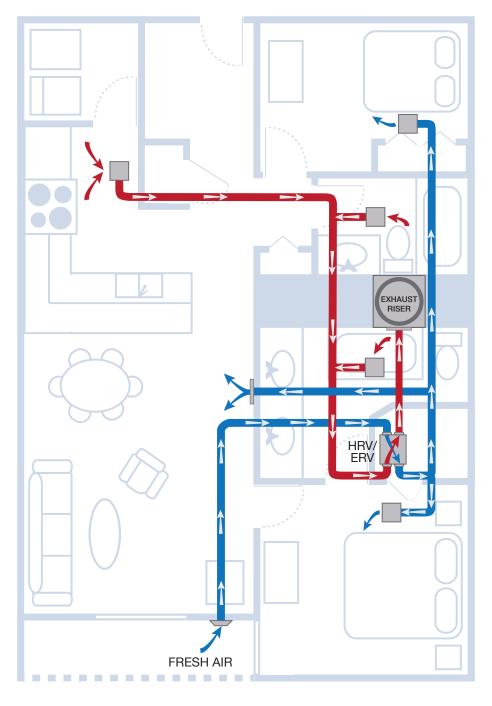
Each diagram depicts an acceptable duct configuration.



Fully ducted with exhaust air directly ducted to the outside and fresh air supplied by an inlet.

APPLICATION

In the diagrams below, the InspirAIR® Compact HRV or ERV is mounted in the ceiling of the master bedroom closet. The blue lines indicate the flow of fresh air for supply and the red lines indicate the flow of stale air for exhaust. Each diagram depicts an acceptable duct configuration.



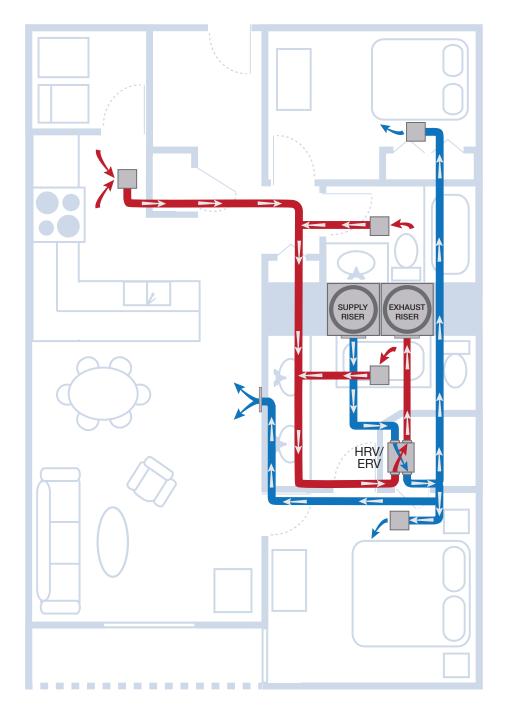
Fully ducted with exhaust air ducted to a central exhaust riser and fresh air supplied by an inlet.

APPLICATION

In the diagrams below, the InspirAIR® Compact HRV or ERV is mounted in the ceiling of the master bedroom closet.

The blue lines indicate the flow of fresh air for supply and the red lines indicate the flow of stale air for exhaust.

Each diagram depicts an acceptable duct configuration.



 $Fully ducted \ with \ exhaust \ air \ ducted \ to \ a \ central \ exhaust \ riser \ and \ fresh \ air \ supplied \ by \ a \ central \ riser.$

ACCESSORIES -



1 - 20/40/60 Timer



2 - Speed Control



3 - Multifunction Control



4 - Washable Foam Filter



5 - MERV 6 / MERV 8 Filter



6 - High-Efficiency Filter



7 - Zone Register Terminal (ZRT®)

ACCESSORIES

DESCRIPTION

- 1 20/40/60 Timer (P/N 611228)
 - Activates the HRV/ERV to operate on high-speed mode for 20, 40, or 60 minutes.
- 2 Speed Control (P/N 611229)
 - Four HRV/ERV speeds: intermittent mode, low and high-speed exterior exchange mode, and unit stop mode.
- Multifunction Control (P/N 611242-FC)
 Gives complete control over the HRV/ERV and supports the free cooling economizer mode (on E80-HRG and E80-HRX).
- 4 Washable Foam Filter (P/N 612405)
 - Traps impurities.
- 5 MERV 6 Filter (P/N 612415) & MERV 8 Filter (P/N 683961)
 - Traps impurities.
- 6 High-Efficiency Filter (P/N 612407)Traps impurities and pollen; use on the supply side only.
- 7 Zone Register Terminal (ZRT®)
 - Increase system efficiency and eliminate noisy bathroom fans.

Range											
Accessory	Part Number	H130-HRG-N, E130-HF-N,E130-HR-N, E130-HRX-N	H80-HF-N, E80-HF-N, E80-HRG-N, E80-HRX-N								
1 - 20/40/60 Timer	611228	V	J								
2 - Speed Control	611229	J	\checkmark								
3 - Multifunction Control	611242-FC	J	V								
4 - Washable Foam Filter	612405	J									
5 - MERV 6 Filter	612415		V								
5 - MERV 8 Filter	683961	J									
6 - High-Efficiency Filter	612407	J									
7 - Zone Register Terminal (ZRT®)	ZRT [®]	V									



For more information, contact your ALDES sales advisor, visit ALDES-na.com, or find us on









040624- Commercial HRV&ERV Brochure
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