

INSPIRAIR® COMPACT

HRV

H80-HR-N

HEAT RECOVERY VENTILATOR

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



UNIT

CORE

PRODUCT DESCRIPTION

The energy efficient balanced in-suite ventilation solution ideal for multi-unit residential buildings, the H80-HR-N is a compact, easy-to-install air exchanger only 9 inches (230 mm) in height. Easily concealed in a drop-ceiling or soffit, this unit has been thoughtfully engineered for apartments, condominiums, and other dwellings.

The H80-HR-N exchanges **79 CFM** of air at 0.2 in.w.g (ESP), perfect for smaller dwellings in multi-unit residential buildings. The H80-HR-N includes Aldes' exclusive FLEXControl, electronic calibration that eliminates the need for balancing dampers and maximizes overall efficiency. Cold Supply Air Prevention (CSAP) stops air distribution to the dwelling for 135-minute cycles if the supply air temperature is below freezing, reducing the risk of damage to downstream equipment.

KEY FEATURES

Up to 70% sensible recovery efficiency, 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 (FLEXControl)

Unique compact door allows easy access to the washable MERV 6 filters



Recovery Core

Material: Polypropylene sensible heat-recovery core

Casing

Material: 24-gauge galvanized steel

Drain Connection: 0.5" (13 mm)

Duct Connections: 5" (127 mm)

Insulation: 1" (25 mm)

Width: 22" (559 mm)

Height: 9" (230 mm)

Height: 27" (686 mm)

Weight: 35 lbs (16 kg); Shipping Weight: 40 lbs (18 kg)



Mounting

Ceiling mount brackets (included) and optional chains (P/N 609051).



Electrical requirement

120 VAC, 60 Hz, 0.8 A, 144W (MAX)



Frost control

Automatic timed integral exhaust defrost

Activated by a sensor when the outdoor temperature drops below 23°F (-5°C)



Filters

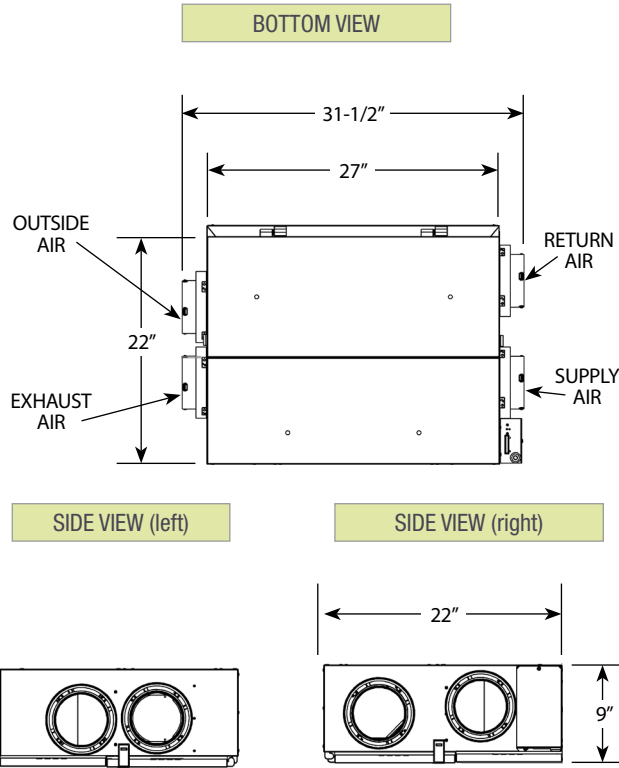
Type : MERV 6 (Two replacement filters, P/N: 612415)



Blowers

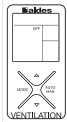
Two motorized impeller (backward-inclined)

Dimensions

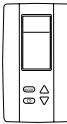


Controls

Low voltage dry contact (24VAC) for interlock with heating/cooling systems.



Digital Multifunction Control (#611242-FC)



LCD Electronic Multifunction Control (P/N 611227)



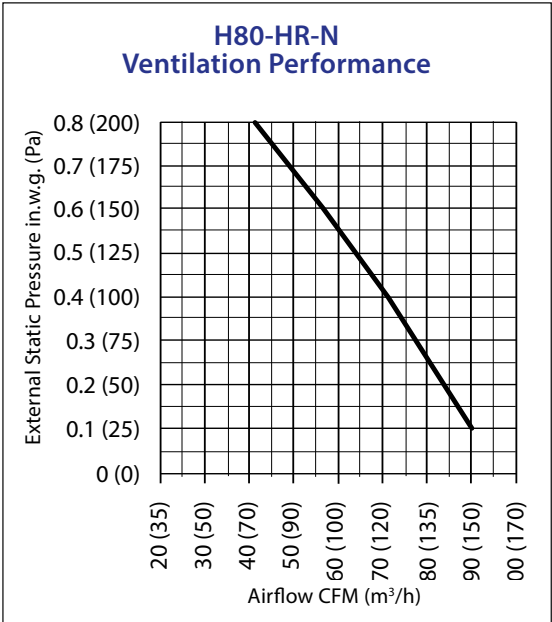
20/40/60 Minute Timer (P/N 611228)



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



Performance



Recovery Performance – H80-HR-N						
Supply Temperature		Net Airflow		Power Consumed (W)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency
°F	°C	CFM	L/s			
32	0	55	26	32	70%	74%
32	0	66	31	46	67%	71%
32	0	81	38	62	64%	69%
-13	-25	53	24	47	63%	65%

Acoustic Performance			
Airflow	Radiated	Supply Air	Exhaust Air
55 CFM	34 dBA	34 dBA	23 dBA
61 CFM	42 dBA	40 dBA	33 dBA