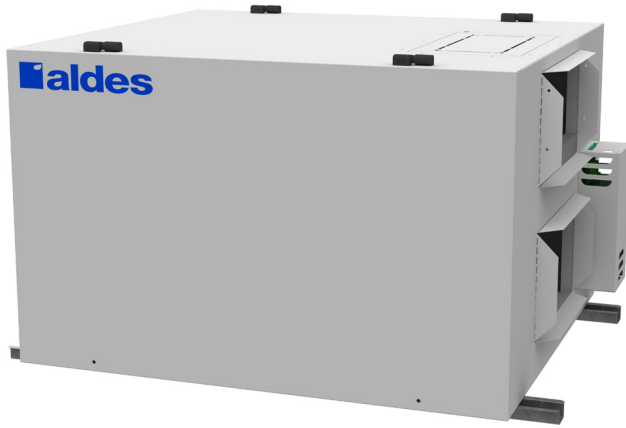




LIGHT COMMERCIAL H650-Fi & H650-Ri Heat Recovery Ventilator

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



H650-Fi & H650-Ri

The H650 heat recovery ventilator provides high-efficiency heat recovery. The unit uses a robust, water-washable polypropylene core that can withstand a wide range of environmental conditions. The H650 produces approximately **665 CFM** at 0.20 in.w.g (ESP). It is powerful enough for restaurants, offices, and other small businesses.

The H650 is ideal for cold-weather applications. The H650-Fi shuts down the fan for the outdoor air supply during defrost cycles, while the H650-Ri uses a fifth port with a motorized damper to defrost the core with recirculated warm air from inside the building.

FEATURES

- Plate-type polypropylene cores
- Quiet operation
- Multiple filter options
- Efficient and economical operation
- Indoor application

CASING

Material: Painted galvanized steel 22GA
 Insulation: 1"(25 mm) Fiberglass with FSK
 Drain Connection: Ø 1/2" (Ø 13 mm)
 Duct Connections: 14" x 8" (356 mm x 203 mm)
 Width: 36-1/4" (921 mm)
 Height: 23-7/8" (606 mm)
 Depth: 32-1/8" (816 mm)
 Unit Weight: 136 lbs (62 kg); 146 lbs (66 kg) with recirculation
 Shipping Weight: 190 lbs (86 kg)
 200 lbs (91 kg) with recirculation

PLATE EXCHANGER

Standard: Polypropylene (sensible heat transfer)
 Quantity: 2
 Pitch: 0.16" (4 mm)
 Dimensions: 12" x 12" x 15" (305 mm x 305 mm x 381 mm)



MOUNTING

Supplied with base rails. Support rod by others.

BLOWERS

Quantity: 2
 Type: Backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor

FILTERS

Number: 4
 Type: Aluminum (P/N: 683901)
 Optional: MERV 8 (P/N: 683902), Carbon (P/N: 683903), or High Efficiency/MERV13 Equivalent (P/N: 683904)

Additional Air Pressure Drop with Optional Filters				
Filter Type	Airflow CFM (m³/h)			
	300 (510)	500 (850)	700 (1190)	900 (1530)
MERV 8	0.04	0.08	0.15	0.22
Carbon	0.04	0.08	0.15	0.22
High Efficiency	0.22	0.35	0.48	0.63

ELECTRICAL REQUIREMENTS

120 VAC, 60 Hz, 5.5 A, 660 W

FROST CONTROL

Cycles controlled by a temperature sensor when outdoor temperatures fall below 23°F (-5°C).

- Standard: Exhaust Defrost (H650-Fi)
- Optional: Recirculation Defrost (H650-Ri)

CONTROLS

24 VAC, 10 VA output for supply and exhaust dampers
 Low-voltage dry contact (24 VAC, 20 VA) for:

- Occupancy Control (start/stop)
- Fan Interlock (NO and NC)
- Speed Selection
- Exhaust/Recirculation (with H650-Ri)

Compatible With:

- Digital Multifunction Control (P/N: 611242)
- Mode Control (exchange or recirculation) (P/N: 611230)
- Humidity Control (P/N: 611224)
- Speed Control (Low/Intermittent/High) (P/N: 611229)
- 20/40/60 Minute Timer (P/N: 611228)

WARRANTY

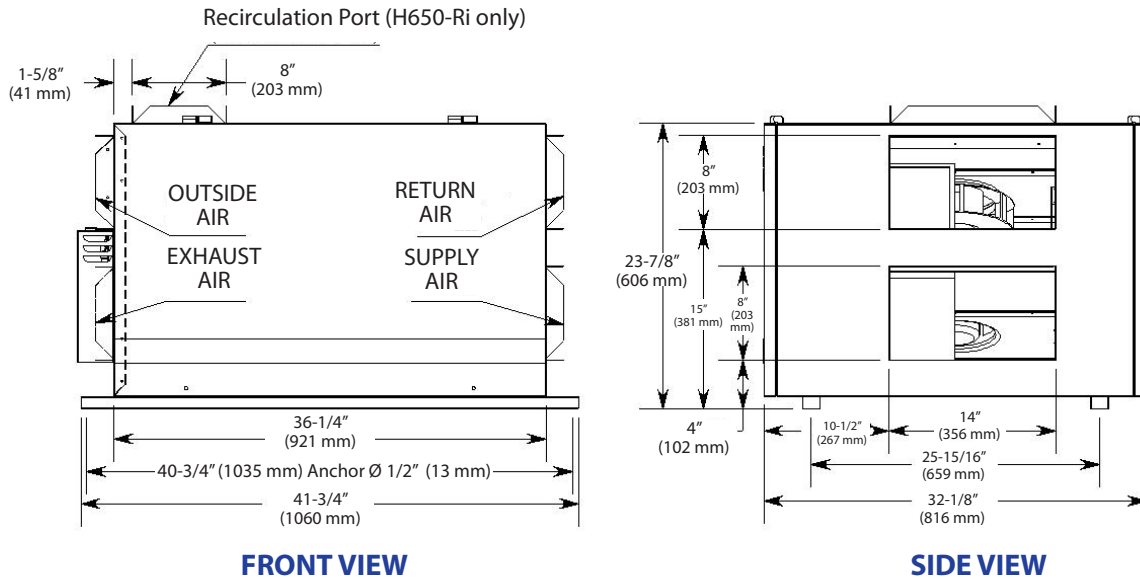
Core Assembly: Limited 15-year warranty
 All Other Covered Components: Limited 2-year warranty

APPROVALS

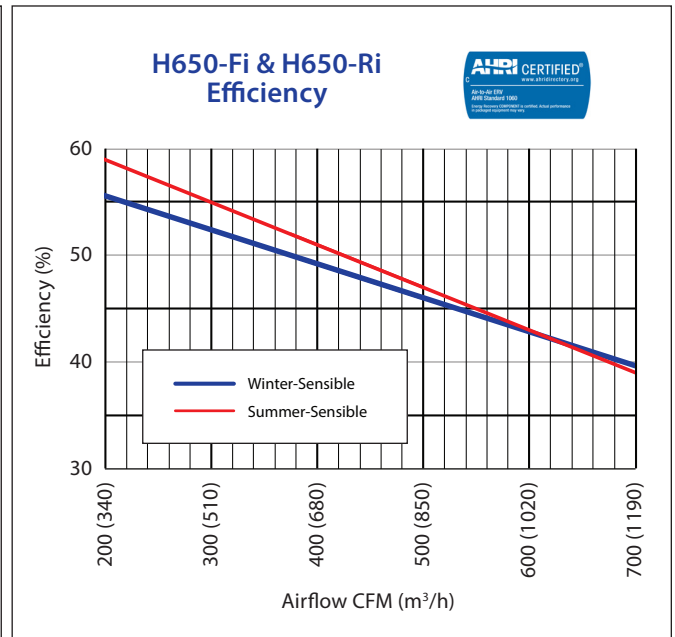
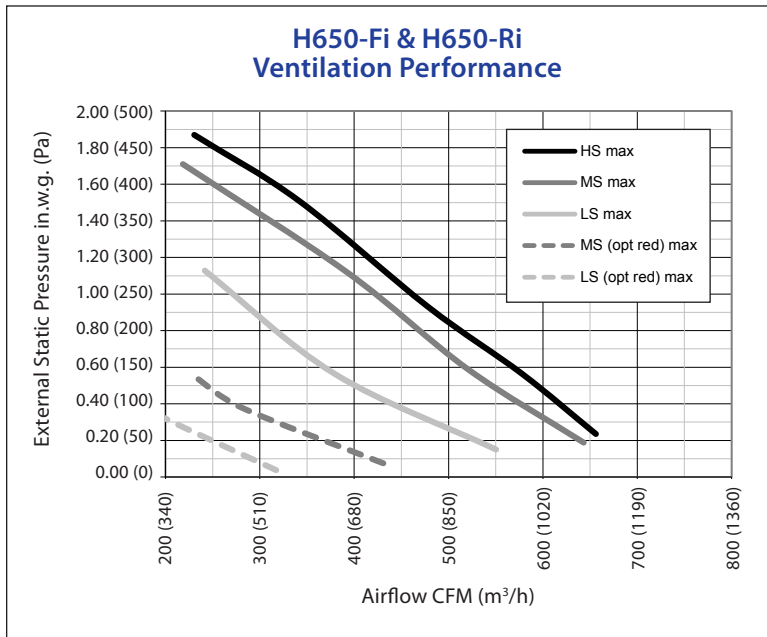
Meets Standards:
 • UL 1812 and C22.2 no113



Dimensions



Performance



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

© 2016 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.