



LIGHT COMMERCIAL
H1100A-Fi & H1100A-Ri
Heat Recovery Ventilator
200-1425 CFM Range

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA



H1100A-Fi & H1100A-Ri

The H1100A heat recovery ventilator provides high-efficiency heat recovery with no core cross contamination. The unit uses a durable aluminum core that can withstand a wide range of environmental conditions. The H1100A produces approximately **1340 CFM** at 0.20 in.w.g (ESP). It is powerful enough for restaurants, offices, and other small businesses.

The H1100A is ideal for cold-weather applications. The H1100A-Fi shuts down the fan for the outdoor air supply during defrost cycles, while the H1100A-Ri uses a fifth port with a motorized damper to defrost the core with recirculated warm air from inside the building.

FEATURES

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

CASING

Material: Painted galvanized steel
Insulation: 1" R4 rated
Drain Connection: Ø 1/2" (Ø 13 mm)
Duct Connections: 20" x 8" (508 mm x 203 mm)
Width: 36-1/4" (921 mm)
Height: 23-7/8" (606 mm)
Depth: 47-1/4" (1200 mm)
Unit Weight: 223 lbs (101 kg)
233 lbs (106 kg) with recirculation
Shipping Weight: 278 lbs (126 kg)
288 lbs (131 kg)

PLATE EXCHANGER

Standard: Aluminum (sensible heat transfer)
Quantity: 3
Pitch: 0.12" (3 mm)
Dimensions: 11.8" x 11.8" x 15" (305 mm x 305 mm x 381 mm)



MOUNTING

Supplied with base rails. Support rod by others.

BLOWERS

Quantity: 4
Type: Backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor

FILTERS

Number: 6
Type: Aluminum (P/N: 683951)
Optional: MERV 8 (P/N: 683952), Carbon (P/N: 683953), or High Efficiency/MERV13 Equivalent (P/N: 683954)

Additional Air Pressure Drop with Optional Filters				
Filter Type	Airflow CFM (m³/h)			
	500 (850)	800 (1360)	1100 (1870)	1400 (2380)
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, 10.5 A

FROST CONTROL

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

- Standard: Exhaust Defrost (H1100A-Fi)
- Optional: Recirculation Defrost (H1100A-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 H1100A-Ri)

Compatible With:

- Digital Multifunction Control (P/N: 611242FC)
- 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)

APPROVALS

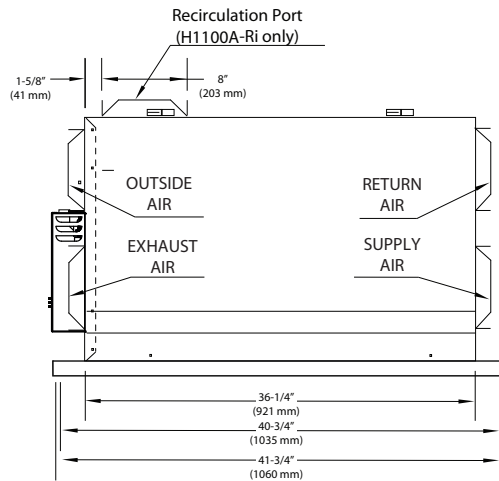
Meets Standards:

- UL 1812 and C22.2 no113

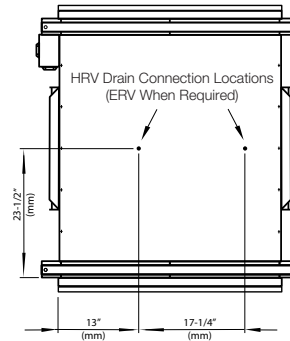
Listed:



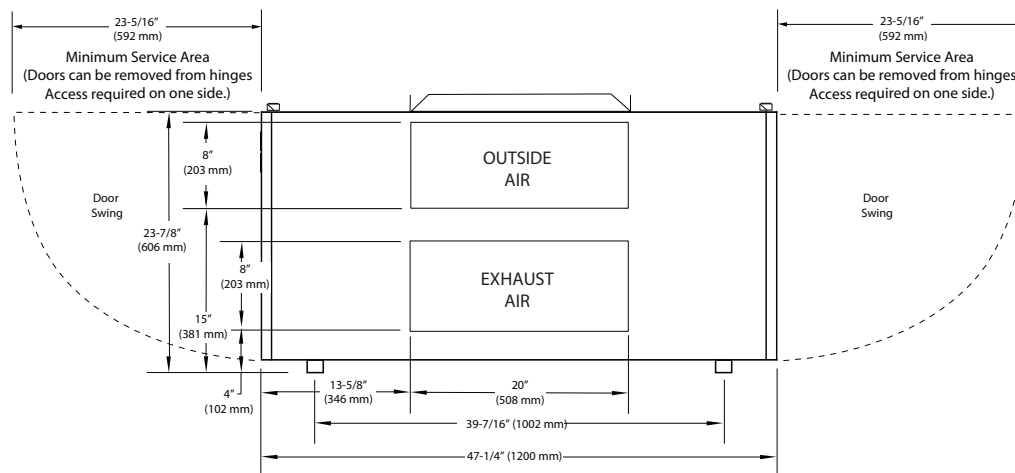
Dimensions



FRONT VIEW

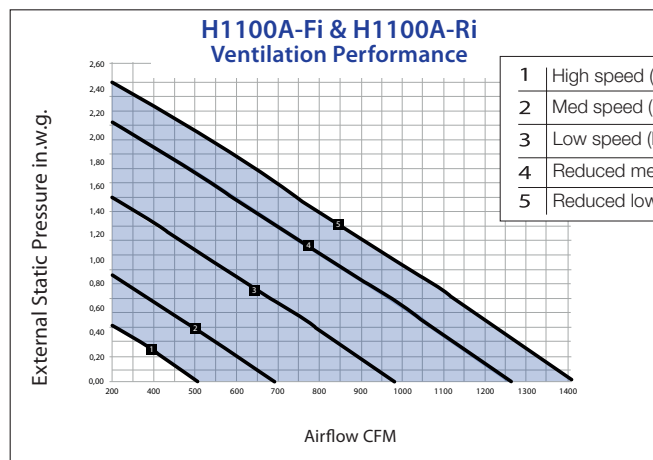


BOTTOM VIEW



SIDE VIEW

Performance



- 1 High speed (Max) 1235W
- 2 Med speed (Max) 1158W
- 3 Low speed (Max) 1108W
- 4 Reduced med speed 962W
- 5 Reduced low speed 832W

	Sensible Recovery %
100 % Air Flow Cooling	46%
75 % Air Flow Cooling	50%
100 % Air Flow Heating	46%
75 % Air Flow Heating	46%
AHRI Core Reference Number	7987456

© 2018 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.

American ALDES Ventilation Corporation • 4521 19th Street Court East, Suite 104 • Bradenton, FL 34203 – USA
941.351.3441 • 800.255.7749 • 941.351.3442 (fax) • info@americanaldes.com • www.aldes.us