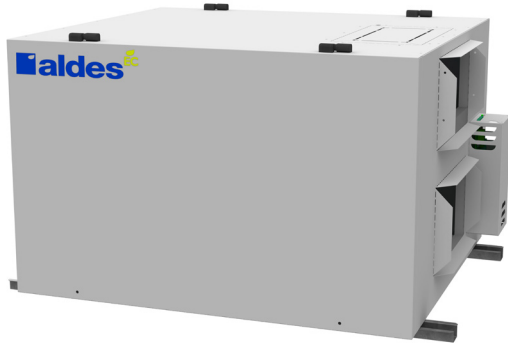




Intertek  
C22.2 no113  
UL 1812



# LIGHT COMMERCIAL SERIES

## HRV

H650-Fi-N, H650A-Fi-N & H650-Fi-P-N

Heat Recovery Ventilator  
735 CFM at 0.4 in.w.g (ESP)



CORE

OTHER PARTS

### PRODUCT DESCRIPTION

The H650-Fi-N (polypropylene core) and H650A-Fi-N (aluminum core) heat recovery ventilators provide up to 735 cubic feet per minute (345 L/s) of fresh outdoor air while exhausting an equivalent amount of stale indoor air, creating a well-balanced ventilation system. The H650-Fi-P-N is a specialty model for indoor pools and other high-humidity applications, with a stainless steel interior, foam filters and anti-corrosion sealant.

These ventilators are recommended for smaller non-residential spaces or dedicated zones within larger buildings such as classrooms, common areas of residential complexes, pools and indoor parking garages.

Designed for versatile indoor installation, Aldes light commercial ventilators can fit almost anywhere and still provide easy access to the internal components for quick maintenance. The units also offer a choice of five continuous operation speeds and a demand-controlled high speed exchange mode.

### KEY FEATURES

Electronically and independently adjustable supply and exhaust blowers (FlexControl)

Painted, heavy-gauge galvanized steel cabinets are attractive, rust-resistant and extremely durable.

Doors on both sides of the unit to allow easy access to filters, cores and motors, no matter the installation constraints.

Fan exhaust frost protection, or optional recirculation defrost kit (factory installed or upgraded in the field).

Two efficient, totally enclosed motors with backward inclined impellers.

Units with polypropylene cores can be used for indoor pools and spas. The H650-Fi-P-N has a stainless steel interior, foam filters and anti-corrosion sealant for high-humidity environments.



### Plate Exchanger

Material: Polypropylene or aluminum

### Casing

Material: Painted galvanized steel 22GA  
Insulation: 1"(25 mm) Fiberglass with FSK  
Drain Connection:  $\varnothing$  1/2" ( $\varnothing$  13 mm)  
Duct Connections: 14" x 8" (356mm x 203mm)  
Width: 36-1/4" (921mm)  
Height: 23-7/8" (606mm)  
Depth: 32-1/8" (816mm)  
Unit Weight:

#### Polypropylene core

Unit Weight: 136 lb (62 kg); 146 lb (66 kg) with recirculation  
Shipping Weight: 190 lb (86 kg); 200 lb (91 kg) with recirculation

#### Aluminum core

Unit Weight: 147 lb (67 kg); 157 lb (71 kg) with recirculation  
Shipping Weight: 201 lb (91 kg); 211 lb (96 kg) with recirculation



### Mounting

Supplied with base rails. Support rods not included.



### Electrical Requirements

120V/1p/60 Hz: FLA 4.1A, MCA 4.6A, MOP 15A  
Terminal block for direct wiring to the building's electrical system.  
Fused disconnect not included.



### Frost Control

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

- Standard: Exhaust Defrost
- Optional: Recirculation Defrost (P/N 683900)



### Blowers

Two backward-inclined motorized impeller, direct-drive PSC, variable speed, external rotor



### Filters

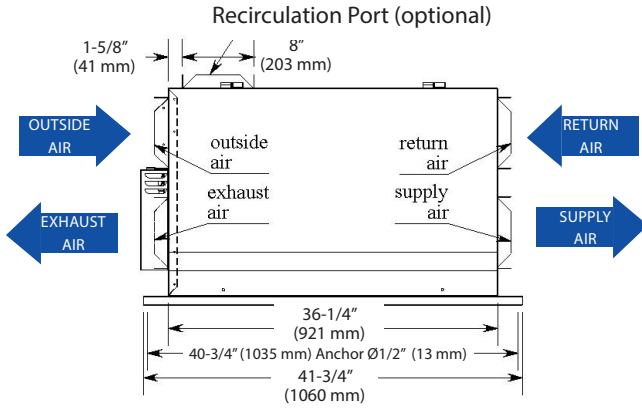
Filter Type	Additional Air Pressure Drop with Optional Filters	
	Airflow CFM (L/S)	
	300 (142)	700 (330)
MERV 8	0.04	0.15
High Efficiency	0.22	0.48

Filter type	P/N	#Filters in pack
Aluminum	612266	2
MERV 8	607039	1
High Efficiency	612265	2

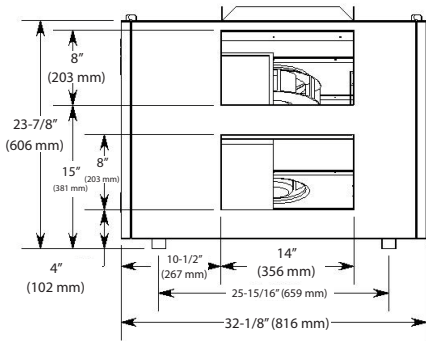
Note: This model requires a total of 4 filters. Make sure to get enough packs to meet the required amount.

# DIMENSIONS

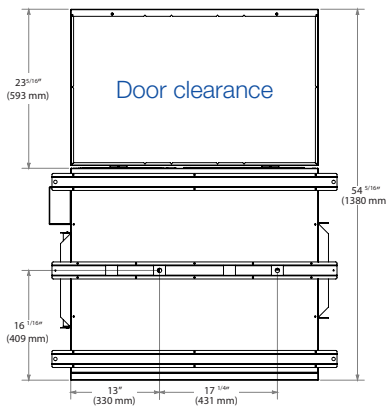
## FRONT VIEW



## SIDE VIEW

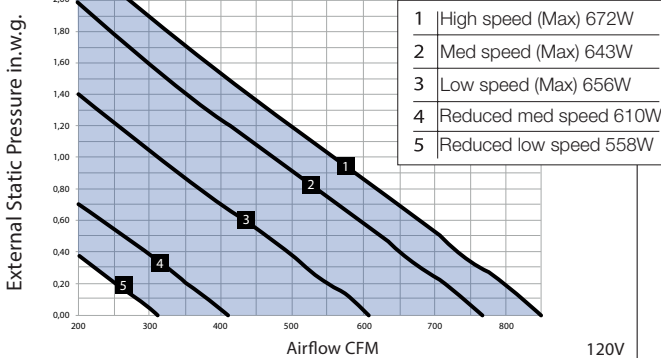


## BOTTOM VIEW

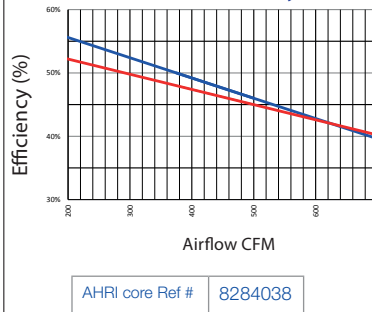


# PERFORMANCE

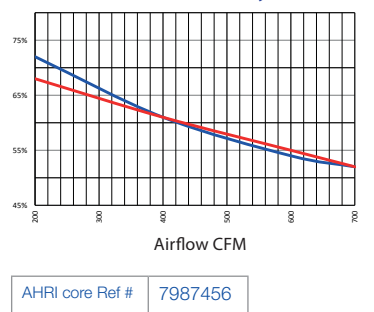
**H650-Fi-N, H650A-Fi-N, H650-Fi-P-N**  
Ventilation Performance



**H650-Fi-N & H650-Fi-P-N**  
Core Efficiency



**H650A-Fi-N**  
Core Efficiency



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

# CONTROLS

0-10 VDC inputs (for supply and exhaust) or multiple fixed speed options

Low-voltage dry contact (24 VAC, 20 VA) for:

- Occupancy Control (On/Off)
- Interlock contacts
- Optional Recirculation Mode

24 VAC, 10 VA output for supply and exhaust dampers (by others)

Compatible with :



Digital Multifunction Control  
(P/N 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)



Mode Control (exchange or recirculation)  
(P/N 611230)



BACnet™ interface (P/N 611235)

For more information, contact your Aldes sales advisor, visit [aldes-na.com](http://aldes-na.com), call 1.800.262.0916, or find us on

