



### PLATE EXCHANGER

ERV counter-flow core

#### CASING (Standard)

Material: pre painted sheet metal  
Drain connections: optional  
Duct connections: 6"  
Insulation: Expanded Polyporopylene EPP  
Length: 22" (560 mm)  
Height: 42-5/6" (251 mm)  
Width: 22" (560 mm)  
Weight: 90 lb (41 kg)



### MOUNTING (Standard)

Installation brackets and screws included  
Floor support optional



### ELECTRICAL & CONTROLS (Standard)

230 V, 50/60 Hz, MCA 4 A, MOP 15 A,  
Max watt 350 W



### FILTERS (Standard)

Quantity: 1 exhaust (MERV 8 standard),  
1 supply (MERV 10 standard) (P/N 699678)\*  
Optional filter types: MERV 13 (P/N 699675), MERV 15  
(P/N 699676) and MERV 13 with active charcoal (P/N 699677)

# InspirAIR® TOP 450 PREMIUM ERV NA

P/N 699673

265 CFM



UNIT



CORE



### BLOWERS & MOTORS

Two motorized fans (forward curved)  
Constant Airflow EC motors



### HUMIDITY SENSOR

Relative humidity sensor automatically adjusts ventilation  
when excessive levels are detected



### FROST PREVENTION/CONTROL

Standard: Automatic Fan Exhaust Cycles are controlled by  
a temperature sensor when the outside temperature drops  
below 14°F (-10°C).  
Optional: 6 inch, 1.5 kW duct electric heater (P/N 699851)

### WARRANTY

Limited 2 years on the cores and all covered components.

## WALL CONTROLS

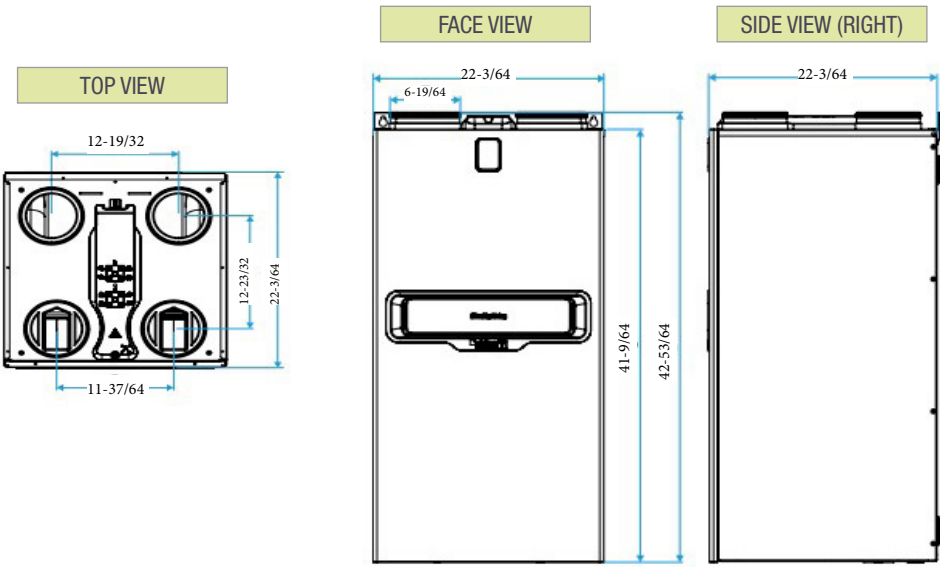
Low voltage dry contact (24VAC) for interlock with heating and  
cooling systems.



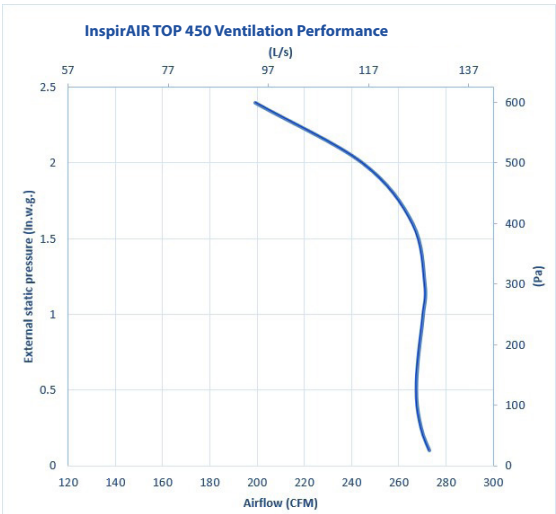
InspirAIR TOP control (standard) (P/N 699850)  
InspirAIR TOP CO<sub>2</sub> control (optional) (P/N 699674)

Type of Filters	Pollen >10 microns	Fine particles 10 microns	Fine particles 2.5 microns	Bacteria 1 micron	Volatile organic compounds
Examples of pollutants	Airbone pollution: soil, sand, ash	Pollen, grass	Urban pollution, mold, smoke, aerosol	Bacteria, dust	Odours, virus
MERV 8	X	-	-	-	-
MERV 10	X	X	-	-	-
MERV 13	X	X	X	X	-
MERV 15	X	X	X	X	-
MERV 13 with active charcoal	X	X	X	X	X

Filtration levels expressed as per ISO 16980. \*Filters MERV 8 and MERV 10 are sold together in a kit (1 unit of each).



## InspirAIR TOP 450: PERFORMANCE



Thermal Performance – InspirAIR TOP 450								
Supply Tem- perature		Net Airflow		Power Con- sumed (w)	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Latent Recovery/ Moisture Transfer	Total Recovery Efficiency
°F	°C	CFM	L/s					
Heating								
32	0	66	31	18	80%	81%	73%	--
32	0	127	60	38	77%	79%	66%	--
32	0	174	82	82	73%	76%	62%	--
Cooling								
95	35	65	31	18	--	--	89%	84%
95	35	126	59	42	--	--	81%	77%
95	35	175	82	92	--	--	71%	71%

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