



PLATE EXCHANGER

ERV counter-flow core

CASING (Standard)

Material: pre painted sheet metal
 Drain connections: optional
 Duct connections: 6"
 Insulation: Expanded Polypropylene 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 / 1ph, 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



2-YEAR
WARRANTY

UNIT



2-YEAR
WARRANTY

CORE



EC



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.

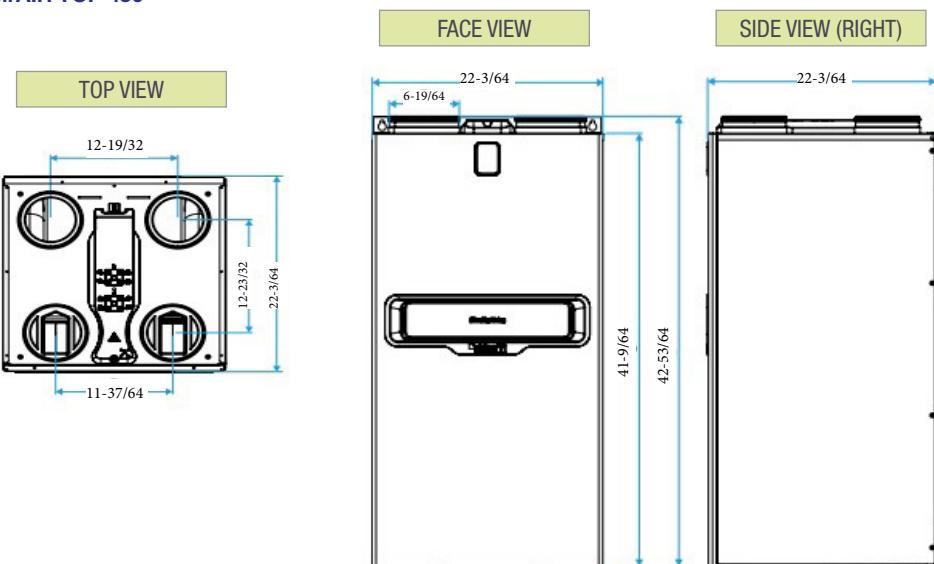


InspirAIR TOP control (standard) (P/N 699850)

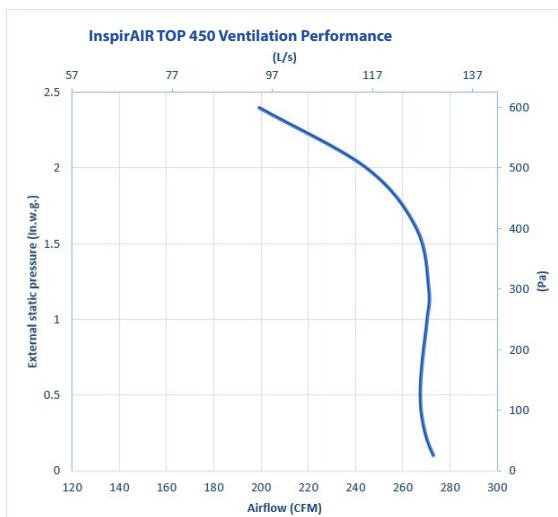
InspirAIR TOP CO₂ control (optional) (P/N 699674)

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 Temperature		Net Airflow		Power Consumed (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:			

For more information, contact your Aldes sales advisor, visit aldes-na.com, call 1.800.255.7749, or find us on

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