

AtmosAir Matterhorn 882



APPLICATION

The Matterhorn 882 ionization system is intended to be mounted in the supply air duct or air handling system of a heating, cooling or ventilation system. The unit is intended to produce bi-polar ions when airflow is delivered over the ion tubes. Power to the unit can be controlled with an optional air pressure differential switch or interlocked with HVAC fan operation, provided the power delivered to the unit does not exceed it's rated voltage. Ionization intensity can be adjusted with a 5 step knob on the unit. Power to the unit can be turned off at the unit or a quick disconnect at the power cord.

OPTIONAL ACCESSORIES;

Air Pressure Switch; Mounting Bracket; IP66

SPECIFICATIONS;

Air Flow Range;up to 8500 CMH
 Pressure Drop..... See figure1
 Housing Material.....Flame-rated, High Impact Strength ABS
 Max Weight.....3.2 kg
 Maximum Operation Temperature.....65° C

ELECTRICAL;

Voltage.....220-250 VAC
 Frequency.....50/60 Hz.
 Power Consumption.....6 Watts
 Current Draw.....37 mA
 Internal Fuse.....1 Amp (5mm x 20mm)
 Field Electrical Connection, 3-Wire to Jct. Box or Country Specific Cord-Set

IONIZATION TUBE;

Material.....Multi-Core Composite and Stainless Steel
 Number.....Two(2)
 Size.....C (178mm) D (241mm) E (375mm) F (555mm)
 Tube Life.....2 years or 17,600 hrs.

DIMENSIONS;.....see Figure 2

APPROVALS;

Underwriters Laboratories Inc. as plenum-rated per UL 1995/867; file # 313742. Energy Star Certified.

FIGURE 1

Tube Type	Tube Number	Flowrate (CMH)	Pascals	Steady State Current (mA)
C	(2)	2500	2.00	34.00
D	(2)	5100	6.00	35.00
E	(2)	6800	12.00	35.00
F	(2)	8500	17.00	37.00

Pressure Drop @ 20°C, Density of Air = 1.225kg/m³ & 240VAC 60Hz

PRESSURE DROP CALCULATIONS BASED ON A TYPICAL 61cm x 61cm SMOOTH LINED DUCT SECTION @ 460 MPM

FIGURE 2

