

# Matterhorn 1000

## Application:

The Matterhorn 1000 ionization system is intended to be mounted in the supply duct or air handler of a heating, cooling, or ventilating system. The unit is intended to operate only when air flow is present, thus, power to the ionization unit should be interlocked with fan operation, or controlled via an air pressure switch. The size and number of ionization systems is dependent upon the airflow, size of the space, and severity of the pollution and odors. Ionization can be adjusted with a 5-step knob.

**Optional:** Air Pressure Switch; Mounting Bracket; Timer; Remote Monitoring Panel

## Specifications:



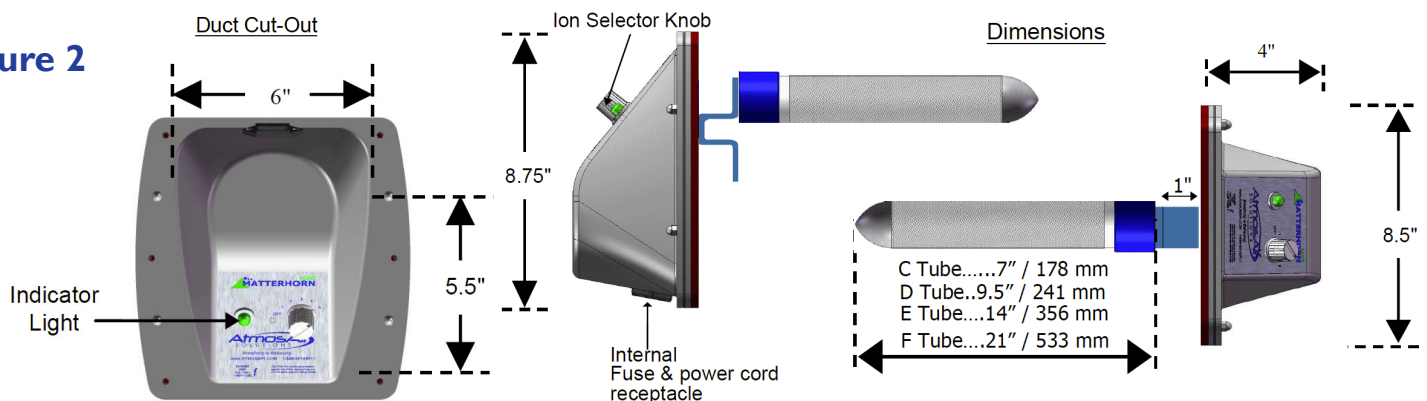
<b>General Product Information</b>	Air Flow Capacity	Up to 2500 CFM
	Pressure Drop	See Figure 1
	Housing Material	Flame-Rated, High Impact ABS (Underwriters Laboratories Inc. pending as plenum-rated per UL 1995, 867; file # 313742. Energy Star Certified.)
	Weight	6.0 lbs
	Max Operation Temp.	200°F (~93°C)
<b>Electrical</b>	Rated Voltage	115-120 VAC
	Frequency	50/60 Hz
	Power Consumption	6 Watts
	Current Draw	37 mA
	Internal Fuse	1.0 Amp FST Glass 5mm x 20mm
<b>Ionization Tube</b>	Field Electrical Connection	Field Electrical Connection; 3-Wire to Jct. Box or Country Specific Cord-Set
	Material	Mono-Core Composite
	Max Quantity	Up to Two (2)
	Compatible Tube Sizes	C, D, E, & F
<b>Dimensions</b>	8.75" x 8.5" x 4"	See Figure 2 for more details
	<b>Approvals</b>	Underwriters Laboratories Inc. pending as plenum-rated per UL 1995, 867; file # 313742. Energy Star Certified.

**Figure 1**

	Tube Size	Tube Number	Flowrate	Inches of WG	Pascals Pa	Steady State mA
M-1000	C	(1)	1000	0.0004	0.01	34.00
	D	(1)	1500	0.0040	1.00	35.00
	E	(1)	2000	0.0040	1.00	35.00
	F	(1)	2500	0.0120	2.99	37.00

Static Pressure Drop was calculated at 1,500 ft/min (7.62 m/s) airflow velocity.

**Figure 2**



# Matterhorn 1002

## Application:

The Matterhorn 1002 ionization system is intended to be mounted in the supply duct or air handler of a heating, cooling, or ventilating system. The unit is intended to operate only when air flow is present, thus, power to the ionization unit should be interlocked with fan operation, or controlled via an air pressure switch. The size and number of ionization systems is dependent upon the airflow, size of the space, and severity of the pollution and odors. Ionization can be adjusted with a 5-step knob.

**Optional:** Air Pressure Switch; Mounting Bracket; Timer; Remote Monitoring Panel



## Specifications:

<b>General Product Information</b>	Air Flow Capacity	Up to 5000 CFM
	Pressure Drop	See Figure 1
	Housing Material	Flame-Rated, High Impact ABS (Underwriters Laboratories Inc. pending as plenum-rated per UL 1995, 867; file # 313742. Energy Star Certified.)
	Weight	6.0 lbs
	Max Operation Temp.	200°F (~93°C)
<b>Electrical</b>	Rated Voltage	115 VAC
	Frequency	50/60 Hz
	Power Consumption	6 Watts
	Current Draw	37 mA
	Internal Fuse	1.0 Amp FST Glass 5mm x 20mm
	Field Electrical Connection	Field Electrical Connection; 3-Wire to Jct. Box or Country Specific Cord-Set
<b>Ionization Tube</b>	Material	Mono-Core Composite
	Max Quantity	Two (2)
	Compatible Tube Sizes	C, D, E, & F
	Estimated Tube Life	2 Years or 17,600 Hours
<b>Dimensions</b>	8.75" x 8.5" x 4"	See Figure 2 for more details
	<b>Approvals</b>	Underwriters Laboratories Inc. pending as plenum-rated per UL 1995, 867; file # 313742. Energy Star Certified.

**Figure 1**

Tube Type	Tube Number	Flowrate (CFM)	Inches WG	Pascals	Steady State Current (mA)	
M-1002	C	(2)	2000	0.0080	2.00	34.00
	D	(2)	3000	0.0241	6.00	35.00
	E	(2)	4000	0.0482	12.00	35.00
	F	(2)	5000	0.0683	17.00	37.00

Static Pressure Drop was calculated at 1,500 ft/min (7.62 m/s) airflow velocity.

**Figure 2**

## Duct Cut-Out Dimensions

