

PRODUCT SUBMITTAL

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 knob.

Optional/Available:

- Air Switch
- Mounting Bracket
- Timer
- Remote Monitoring Panel

Figure 1

	Tube Size	Tube Number	Flowrate (CFM)	mm / inch of WG	Pascals Pa	Steady State mA
M-1000	C	(1)	1,000	0.0102mm 0.0004"	0.01	34.00
	D	(1)	1,500	0.10156mm 0.0040"	1.00	35.00
	E	(1)	2,000	0.10156mm 0.0040"	1.00	35.00
	F	(1)	2,500	0.3048mm 0.0120"	2.99	37.00

SPECIFICATIONS

General Product Information

Air Flow Rating	Up to 2,500 CFM
Pressure Drop	Minimal
Housing Material	Flame-Rated, High Impact ABS
Weight	2.72 kg (6.0 lbs)
Max Operation Temp.	65.6°C (150°F)

Electrical

Rated Voltage	120 VAC
Frequency	50/60 Hz
Power Consumption	5 Watts
Current Draw	0.2 Amps (0.200 mA)
Fuse	1.25 Amp 120 VAC 1.0 Amp 240 VAC
Field Electrical Connection	Junction Box Integrated into AHU

Ionization Tube

Material	Multi-Core Composite
Max Quantity	Up to Two (2)
Compatible Tube Sizes	C (177.8mm) (7") D (243.8mm) (9.6") E (355.6mm) (14") F (558.8mm) (22")
Estimated Tube Life	17,600 Hours (Two Years)

Dimensions

See Figure 2 for more details

Approvals

CE and Intertek ETL to UL Standards: 2998, 1995, 867, 867A; CSA 22.2 Zero Ozone Emissions, Heating & Cooling Equipment, Electrostatic Air Cleaners, Commercial/Industrial Indoor Air Quality Systems.

Figure 2

