

PRODUCT SUBMITTAL

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 knob.

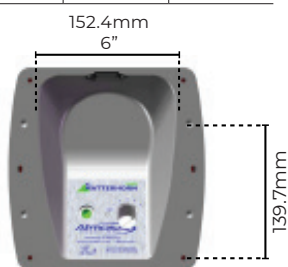
Optional/Available:

- 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-1002 | C | (2) | 2,000 | 0.2032mm 0.0080" | 2.00 | 34.00 |
| | D | (2) | 3,000 | 0.6121mm 0.0241" | 6.00 | 35.00 |
| | E | (2) | 4,000 | 1.2243mm 0.0482" | 12.00 | 35.00 |
| | F | (2) | 5,000 | 1.7348mm 0.0683" | 17.00 | 37.00 |

Figure 2



SPECIFICATIONS

General Product Information

| | |
|---------------------|------------------------------|
| Air Flow Rating | Up to 5,000 CFM |
| Pressure Drop | Minimal |
| Housing Material | Flame-Rated, High Impact ABS |
| Weight | 2.83 kg (6.25 lbs) |
| Max Operation Temp. | 65.6°C (150°F) |

Electrical

| | |
|-----------------------------|------------------------------------|
| Rated Voltage | 120 or 240 VAC |
| Frequency | 50/60 Hz |
| Power Consumption | 6 Watts |
| Current Draw | 0.4 Amps (400 mA) |
| Fuse | 1.25 Amp 120 VAC 1.0 Amp 240 VAC |
| Field Electrical Connection | Junction Box Integrated into AHU |

Ionization Tube

| | |
|-----------------------|--|
| Material | Mono-Core Composite |
| Max Quantity | 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.

