

In-Line Fusion™



Pipes Ions Through Long Tubes

Reaches Previously Inaccessible Locations

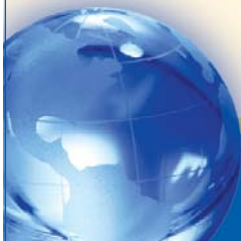
Ultra-fast discharge times

ISO class 1 cleanroom compatible

Attachments available for custom applications

Compact Design

The In-Line Fusion™ ionizer enables stunning performance in longer-length delivery lines by overcoming traditional ion recombination limitations; enabling focused ionized air to be delivered to previously inaccessible locations.



WORLDWIDE LEADERS IN STATIC CONTROL

 **SIMCO**[®]
An Illinois Tool Works Company

Part Numbers

Description	Part #
In-line FusION SiC	4012228
In-line FusION TG	4012229
Power Supply 120V (N. America/Japan)	4010448
Power Supply 230V (Cont. Europe)	4010449
Power Supply 230V (UK/Asia)	4010450
Airflow switch	5051557

System Performance

Discharge Time

0.14" - Single Output Tube (Inside Diameter)

Tube Length	30 PSI	15 PSI	5 PSI	2 PSI
6" Tube	0.5 sec	0.8 sec	1.4 sec	2.5 sec
12" Tube	0.8 sec	1.4 sec	2.2 sec	4.0 sec
18" Tube	1.0 sec	2.1 sec	3.5 sec	6.2 sec
24" Tube	1.8 sec	3.2 sec	5.2 sec	9.6 sec
36" Tube	6.0 sec	6.8 sec	10 sec	18 sec
48" Tube	9.5 sec	13 sec	22 sec	40 sec

Offset voltage and discharge time determined as per ANSI/ESD STM3.1 ionization using a 6" x 6", 20pF plate (charge plate monitor). Discharge times are in seconds from 1000 volts to 100 volts.

Ring Output Application

P/N: 10" 5051539 6" 5051535



Air Knife Output Application

P/N: 12" 5051538 6" 5051530



Nitrogen (N2) Kit

P/N: 12" 5051515



In-Line Fusion™ Ionizer

For the longest time, end users of ionization devices have desired the ability to deliver the ions through a lengthy tube that would allow them to bring focused ionized air conveniently to their target without being attracted to grounded metal components in their environment and without having to bring the ion generation source close to their target.

Simco has developed a revolutionary DC in-line ionizer that has the ability to provide stunning decay times through output tubes up to even six feet in length. In fact, as the ion-to-ion recombination down the output tube is so limited, the single output tube has the ability to be split into multiple tubes each with excellent performance allowing the FusION ionization source to service multiple locations from a single ionization source. This unit comes equipped for use with clean dry air (CDA); however, a Nitrogen (N2) kit is available. The fusion airflow switch automatically cuts off power when no airflow is present, so potential excess ozone production is eliminated.

Mechanical Specifications

In-Line Fusion™

Emitters	4-SiC or Tungsten
ON/OFF	Polycarbonate with 94V-0 flame rating
Color	White
Dimensions	3.0" H x 1.9" W x 3.8" L (7.5 x 4.8 x 9.8cm)
Weight	8ozs (227g)
Max. Input Pressure	50 psi

Operational Specifications

Power Input	24VDC
Connectors	4 position modular; DC power IN
Output Current	5µA
Operating Modes	Steady-state DC
Indicators	Green-Power On; Red-fault indicator (TTL level alarm output)
Ambient Temperature	32° F (0° C) to 122° F (50° C)

Power Supply Specifications

Power Output	24VDC
Input	100-240V AC, 50.60 Hz
AC Power Inlet	IEC 320, Class 1
Dimensions	1.3" H x 2.0" W x 3.5" L (3.3 x 5.1 x 8.9cm)
Color	Black
Weight	11ozs (318g)