



Ionizing Air Nozzle & Controller

orION™

Simco-Ion's orION Ionizing Air Nozzle and Controller provides high performance and reliability in a compact, compressed air nozzle. It has been designed for use in fixed applications on manufacturing lines, equipment, and tool applications in the telecommunications, consumer electronics, semiconductor and medical device manufacturing industries.

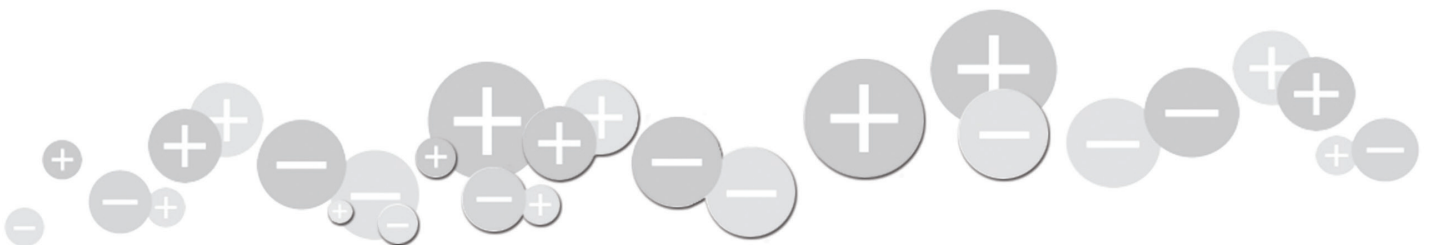
The orION features high blow-off force capability combined with fast removal of electrostatic surface charge. Reliable balance stability is maintained at better than $\pm 15V$. An easily replaceable 0.01-micron particle filter is positioned at the nozzle air exit to provide the highest confidence that clean air is delivered to sensitive product.

Features

- Compact nozzle and cable assembly
- Forceful gas-jet nozzle
- Integrated filter within the nozzle
- Remote operation of ionization and nozzle gas flow
- Ionization balance adjustments at nozzle and at controller

Benefits

- Perfect for tight-constrained applications
- Fast, effective charge neutralization and blow-off cleaning
- Contaminate free gas discharge
- Offers control of orION from most convenient operator location
- Convenient balance optimization



Specifications	
Input Voltage	120 VAC, 60 Hz, 0.2A; 230 VAC, 50 Hz, 0.1A
Discharge¹	<1 sec @ 2" distance; <2 sec @ 6" distance (input pressure between 10-100 psi)
Balance	0V ±15V
Power Inlet	IEC320
Input Pressure	100 psi (690 kPa) max; Clean Dry Air, Nitrogen or CO ₂
Gas Inlet:	1/4" NPT (female)
Gas Consumption	2.4 scfm @ 30 psi (206 kPa); 4.6 scfm @ 60 psi (412 kPa); 7.4 scfm @ 100 psi (690 kPa)
Air Pressure	Pressure relief in nozzle complies with OSHA requirements
Filter	0.01-micron rating
Audible Noise	76 dB @ 30 psi (206 kPa); 89 dB @ 60 psi (412 kPa); 97 dB @ 100 psi (690 kPa); measured 24" (600 mm) from nozzle
Operating Env.	Temperature 32-104°F (0-40°C); humidity 30-70% RH, non-condensing
Ozone	<0.5 ppm measured @ 1'
Connector	4 position, keyed circular
Weight	Nozzle: 6.5 oz (185 g); cable: 1.25 oz/ft (115 g/m); controller: 6.0 lb (2.7 kg)
Dimensions	Controller: 6.45"H x 5.20"W x 3.35"D (does not incl. flanges) (164 x 132 x 85 mm)
Warranty	2 year limited warranty
Certification	  

1. Tested in accordance with ANSI/ESD STM3.1-2015.

Ordering Information

4009045-01	orION, 120V, 7' cable/hose assembly, 60 Hz, UL, cUL, North America
4009046-01	orION, 230V, 7' cable/hose assembly, 50 Hz, cUL, CE, Continental Europe
4009220-01	orION, 230V, 7' cable/hose assembly, 50 Hz, CE, United Kingdom
4015645-01	orION, 230V, 7' cable/hose assembly, 50 Hz, CE, China
4012209-01	orION, 120V, 5' cable/hose assembly, optical sensor, 60 Hz, UL, cUL, North America
4012210-01	orION, 230V, 5' cable/hose assembly, optical sensor, 50 Hz, cUL, CE, Continental Europe
4012211-01	orION, 230V, 5' cable/hose assembly, optical sensor, 50 Hz, CE, United Kingdom
4009245-01	orION, 120V, Sidekick (hands-free stand), 60 Hz, UL, cUL, North America
4009246-01	orION, 230V, Sidekick (hands-free stand), 50 Hz, cUL, CE, Continental Europe
4009449-01	orION, 230V, Sidekick (hands-free stand), 50 Hz, CE, United Kingdom
4015646-01	orION, 230V, 7' Sidekick (hands-free stand), 50 Hz, CE, China
4012212-01	orION, 120V, Sidekick (hands-free stand), optical sensor, 60 Hz, UL, cUL, North America
4012213-01	orION, 230V, Sidekick (hands-free stand), optical sensor, 50 Hz, cUL, CE, Continental Europe
4012214-01	orION, 230V, Sidekick (hands-free stand), optical sensor, 50 Hz, CE, United Kingdom
5050696	Filter/Nozzle Kit (2 per package)
4107399	orION Foot Activation Switch

orION with Sidekick Flexible Neck Stand

Options include the Sidekick, flexible neck stand and a foot switch to activate the orION nozzle. The switch connects to the power supply and when depressed, activates both airflow and power to the ion emitter assembly. A red LED on the nozzle indicates power.



orION with Sidekick

orION with Optical Sensor

For automated assembly, all versions of the orION are available with an optional Optical Sensor, which automatically activates the nozzle when an object is in range. The Optical Sensor has an "adjustable range" from 1-30 inches.



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