



Ionizing Air Nozzle & Controller

orIONTM

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 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
Discharge	<1 sec @ 2" distance; <2 sec @ 6" distance (input pressure between 10-100 psi) ¹
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: 6.45H x 5.20W x 3.35D in. (does not incl. flanges) (164H x 132W x 85D mm)
Warranty	2 year limited warranty
Certification	 230V, 50 Hz  120V, 60 Hz

1. Tested in accordance with ANSI/ESD STM3.1-2006.

Ordering Information

4009045	orION, 120V, 7' cable/hose assembly, 60 Hz, UL, cUL, North America
4009046	orION, 230V, 7' cable/hose assembly, 50 Hz, cUL, CE, Continental Europe
4009220	orION, 230V, 7' cable/hose assembly, 50 Hz, CE, United Kingdom
4015645	orION, 230V, 7' cable/hose assembly, 50 Hz, CE, China
4012209	orION, 120V, 5' cable/hose assembly, optical sensor, 60 Hz, UL, cUL, North America
4012210	orION, 230V, 5' cable/hose assembly, optical sensor, 50 Hz, cUL, CE, Continental Europe
4012211	orION, 230V, 5' cable/hose assembly, optical sensor, 50 Hz, CE, United Kingdom
4009245	orION, 120V, Sidekick (hands-free stand), 60 Hz, UL, cUL, North America
4009246	orION, 230V, Sidekick (hands-free stand), 50 Hz, cUL, CE, Continental Europe
4009449	orION, 230V, Sidekick (hands-free stand), 50 Hz, CE, United Kingdom
4015646	orION, 230V, 7' Sidekick (hands-free stand), 50 Hz, CE, China
4012212	orION, 120V, Sidekick (hands-free stand), optical sensor, 60 Hz, UL, cUL, North America
4012213	orION, 230V, Sidekick (hands-free stand), optical sensor, 50 Hz, cUL, CE, Continental Europe
4012214	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.

SIMCO ION™
An ITW Company

DS-orION_V3 - 10/14
© 2014 Simco-Io
All rights reserved.

Simco-Ion

Technology Group
1601 Harbor Bay Pkwy, Ste 150
Alameda, CA 94502

Tel: 800.367.2452 (in USA)
Tel: 510.217.0600

info@simco-ion.com
www.simco-ion.com