

# Contamination Control ZappPLUS System

## Ionizing Blow-off Device!!

*Clean Medical Assemblies • Clean Optics • Clean Electronic Assemblies • Clean Molded Parts*

Portable and flexible, the ZappPLUS System, with its ZappII Piezonizer, is ideal for neutralizing electrostatic charges and blowing loose, dry, surface contaminants from parts, assemblies and packaging materials in Injection Molding, Medical Device, Industrial, Electronics and Semiconductor applications.

The ZappII's built-in High Frequency Piezoelectric Transformer produces an abundance of balanced ions in an ultra-compact housing. CDA (Clean Dry Air) or nitrogen blowing through the ZappII effectively neutralizes static charges and removes particles from surfaces.

The ZappII and a sensor eye are mounted to the end of an adjustable gooseneck with table-clip, for easy mounting on the edge of your work surface for quick setup of the system. Simply shape the gooseneck to aim the ZappII nozzle in an ergonomically and process friendly direction for hands-free operation. The sensor detects the presence of your part, sending power and air/nitrogen to the ZappII via the system

controller. The distance from the target to the sensor is easily adjusted from a few to many inches to control how close the part must be to turn the system on, helping control process and efficiency.

The ZappPLUS multi-function Controller includes a system On/Off switch, needle valve to adjust the pressure and flow to the ZappII and 'tri-mode' switch to change the air/nitrogen from a constant stream to a High (10Hz) or Low (5Hz) Frequency Pulse, excellent for purging particles out of hard-to-clean nooks and crannies. An alarm LED indicates a system failure or excessive contamination of the ZappII. An off-delay timer, programmable from 0-10 seconds, keeps the ionized airflow on if the target momentarily moves out of line with the sensor, handy if the part is optically clear or has openings the sensor sees through.

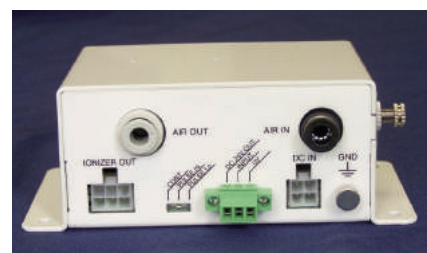
*When used with SCI's Contamination Control Solutions, like the HepaClean Chamber or Particle Trap, particulates are confidently removed from your parts, packaging, process and clean room for good!*



### ZappPLUS Controller



**Front**



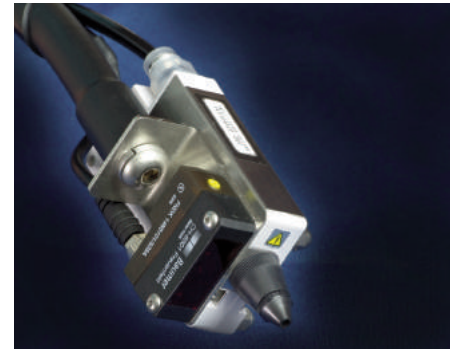
**Back**



**ZappPLUS (SHZII-SGC) Standard Features:**

- Controller with:
  - System On/Off Switch
  - Needle Valve to adjust pressure/flow to ZappII
  - Tri-Mode Function; Constant, High Frequency (10Hz) or Low Frequency (5Hz) Pulsed Flow
  - Off Delay Feature with Switch, adjustable from 0-10 seconds
- Gooseneck with 2" table-clamp for easy mounting and aiming
- Standard Nozzle with OSHA tip (SHOZ-S-US)
- Proximity Sensor with adjustable 'on' distance (recommended distance 1"-12")
- Hi-Output Ionization
- Hands-Free operation
- Efficient use of CDA/nitrogen, generates high pressure at low volume
- ZappII LED's indicate System Status
- Tungsten Emitter Needle can be easily removed from ZappII for cleaning or replacement

**ZappII w/ Sensor**



**Options:**

- ZappPLUS with Footswitch (SHZII-FGC) to Activate System

**NOTE:** Controller does not include the off-delay timer

• Shower Nozzle (SHOZ-60S), Flat Nozzle (SHOZ-F), Drilled Airtubes (SHOZ-100B-500B), or Flexible Tube (SHOZ-C100-C500) nozzles available upon request. (see separate nozzle spec for details)

**ZappPLUS Specifications**

Power Supply:	DC + 24v (+/- 10%); 100-240VI to 24Vo DC Power Adapter w/ 120V US Plug Included (optional plugs available)
Input Amperage:	2.4VA
Output Voltage:	AC 3kV
Ion Balance:	+/- 15V
Air Pressure:	7-87 psi (0.05-0.6 Mpa)
Air Flow:	1.1 - 5.7 cfm (30-160 lpm)
Environment:	50-104F (10-40C) Up to 75% RH (non-condensing)
Air Supply:	Requires CDA (clean dry compressed air) or Nitrogen
Emitter:	Tungsten Emitter Needle for Long Life
Effective Range:	Several inches to Several Feet
Weight:	3.8 lbs
Dimensions:	Controller: 5.31 x 2.95 x 1.97" (135 x 75 x 50mm) ZappII: 3.43 x 0.70 x 1.97" (87 x 18 x 50mm) Gooseneck: 19.63" x 0.655" dia. w/ 2" Table-Clamp

**Contamination Control Products used with ZappPLUS**



**HepaClean Chamber**

*Ionizing Air-wash System effectively cleans and captures particulate off the part and out of your clean room*

**Particle Trap**

*Source Capture System designed to trap particles from parts in your clean room (used with an ionizing blow-off device)*



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• www.staticclean.com