SnoPen™
Precision Spray Cleaning Pen (SP 2000)

FEATURES

The SnoPen™ CO2 composite spray cleaning pen is an economical yet versatile precision spot cleaning solution for critical manufacturing and assembly operations. Using a patented process, the SnoPen generates and propels an adjustable (temperature and particle concentration) spray of clean dry air (CDA) or GN2 containing CO2 particles to efficiently remove foreign matter from a surface. The SnoPen replaces or augments conventional solvent-aided wiper, swab and spray cleaning techniques which can spread, smear or shed, or redeposit trace residues and particles over critical surfaces.

CO2 particles are precisely projected at near-sonic velocity onto critical surfaces to provide selective cleaning for a variety of applications. For example, lenses, fiberoptics, electro-optics, sensors, medical devices, aerospace devices and HDD devices require precision cleaning in preparation for, during and/or following mechanical assembly, polishing, gross cleaning, adhesive bonding, welding, coating, inspection and test, among many other manufacturing operations. Contaminants such as microabrasive debris, cutting/splicing debris, polishing compounds, dust particles, fingerprints, surface films and other residues are efficiently scoured and scrubbed from critical surfaces using the SnoPen.

Each SnoPen is equipped with a flexible coaxial hose and spray pen applicator with electronic finger-switch and is expandable with a number of equipment options and accessories.

More economical and versatile than “Snow Guns”
Quickly removes particles and thin film surface contaminants
Superior to solvent wiping techniques
Expandable with various upgrades and accessories
PRODUCT SPECIFICATIONS

SnoPen™ – Precision Spray Cleaning Pen

Model SP2000

Basic Plug-n-Spray Cleaning System Includes:

1. **CO₂ Composite Spray Generator:** A compact table-top chassis equipped with power switch, CDA propellant thrust controller (0-125 psi) and gage, and precision CO₂ injection flow and temperature controller.
   - **Internal:**
     - **Particle Capillary:** Size 30 (fine) installed; Size 20 (ultrafine) and Size 40 (medium) available.
     - **Fluid Filtration:** 0.5 micron (standard).
     - **Spray Applicator:** Pencil pendant, 3 foot (1 meter) coaxial cleaning spray line, pencil applicator and nozzle.
     - **Propellant Temperature Controller:** Panel-mounted digital temperature controller.
     - **Spray Actuator:** Dual footswitch.

2. **Connection Kit:** Tank adaptor, hose, and filter for a 20 or 50 pound liquid CO₂ cylinder.

3. **Operation Manual.**

**SPECIFICATIONS (Model SP2000)**

<table>
<thead>
<tr>
<th><strong>Voltage Requirements</strong></th>
<th>110V – 50/60 Hz (other voltages available)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cleaning Agent Supply</strong></td>
<td>Liquid CO₂, 830-950 psi, 50-75 °F</td>
</tr>
<tr>
<td><strong>Propellant Supply</strong></td>
<td>GN₂, CDA Gas, 60-150 psi</td>
</tr>
<tr>
<td><strong>Spray Control</strong></td>
<td>24VDC Finger Switch</td>
</tr>
<tr>
<td><strong>Maximum Environmental Operating Temperature</strong></td>
<td>80 °F</td>
</tr>
<tr>
<td><strong>Workspace (Spray Generator)</strong></td>
<td>11.5D x 14.0W x 5.5H in²</td>
</tr>
</tbody>
</table>

**EQUIPMENT FOR GENERATING LOW-COST, HIGH-QUALITY CO₂!**

PurCO₂™ Pure Liquid CO₂ Generator

**OPTIONAL ACCESSORIES**

- ProBlast™ Lighted, Ionized Glove Box
- CoolVac™ HEPA Contamination Collection System
- BlueFire™ Atmospheric Plasma Treatment System

SnoPen™