

## Surface Activation System

The BT-1 is a complete industrial grade plasma treatment solution and one of our most popular models. It is capable of plasma cleaning, plasma etching, reactive ion etching, and more. Its large processing shelves and spacious chamber make this model perfect for the semiconductor, electronics, solar, PCB, and industrial manufacturing markets – as well as any other company in need of a cost effective, high yield plasma processing solution.



### STANDARD FEATURES

Electrode Configuration	Five Stacked Horizontal (20"W x 21"D + 3" Clearance)
Generator	600W 13.56MHz Continuously Variable Power Supply with Automatic Matching Network
Gas Control	One 0-200cc Mass Flow Controller
Control System	Color PLC-Based Touch Screen Control Interface; Stores up to 20 Two-Step Recipes
Vacuum Gauge	1-2000 mT
Vacuum Pump	29CFM 2-Stage Direct Drive Oil Pump (Oxygen Service – Krytox Charged)
Chamber	25" x 25" x 22"; 6061-T6 Aluminum
Unit Dimensions	70" x 36" x 32"
Unit Weight	Approx. 1200lbs; 1350lbs with Vacuum Pump

### FACILITY REQUIREMENTS

Electrical	120/208 VAC, 50/60 Hz, 3 Phase, 5 Wire, 30 Amps
Compressed Air Service	80-100PSI, 0.5CFM
Regulated Process Gases	15PSI

### OPTIONAL FEATURES

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Custom Vacuum Chamber or Electrode Size</li> <li>• Reactive Ion Electrodes</li> <li>• Larger Power Supplies</li> <li>• PC-Based Control System</li> <li>• Electrostatic Shielding</li> <li>• Temperature Control System</li> <li>• Dry and Oil-Driven Vacuum Pumps and Blower Boosters</li> <li>• Chiller System for Dry Vacuum Pump</li> <li>• Chamber and Vacuum Pump Purge Systems</li> </ul> | <ul style="list-style-type: none"> <li>• Vacuum Pump Oil Mist Eliminator</li> <li>• Vacuum Pump Oil Filtration</li> <li>• Automatic Vacuum Control</li> <li>• Additional Digital Mass Flow Controllers</li> <li>• Gas Steering Matrix 2x5</li> <li>• Low Gas-Source Alarm</li> <li>• Light Tower</li> <li>• Fume Scrubber</li> </ul> |
|---|--|