

ION PUMPS

Duniway Stockroom Corp. – The Experts in Ion Pumps

For more than 30 years, Duniway Stockroom has worked with ion pumps. We offer a full line of products and services related to ion pumps. Please go to our catalog or web site: www.duniway.com

- A New Complete line of Duniway Ion Pumps with pumping speeds from 10 L/S to 400 L/S
- New Varian-Style and PE style Ion Pumps from appendage pumps to 500 l/s versions
- Customized ion pumps and controls for specialized applications
- Innovating new technologies for improved performance and lower cost
- Re-building services available for all ion pumps and elements.
- Spare parts : magnets, feedthroughs cathodes, insulators
- High Voltage Cables – bakeable, radiation resistant, custom lengths. choice of connectors
- New Terranova Ion Pump Controls with digital display, process control and computer interface
 - Terranova 751A – Single Ion Pump Digital Control/Display
 - Terranova 752A – Dual Ion Pump Digital Control/Display
- Other new ion pump controls
 - IPC-0062 - Medium Analog Ion Pump Control
 - IPC-0066 – Large Analog Ion Pump Control
 - PR-0048 -- Pressure Relay Box for Bakeout Control
- Variety of Rebuilt Ion Pump Controls

Ion Pump Building/Rebuilding Overview

Duniway Stockroom Corporation builds and rebuilds sputter-ion pumps and pump elements from all original manufacturers as a service to our customers. For new ion pumps, all new parts of the highest quality and cleanliness are used. For rebuilding, all deposits are removed, material is outgassed and electrical leakage is minimized. The rebuilt pumps have the same performance and warranty as our new pumps. Below is a list of what we will do with your pump:

New Ion Pump Build Process

- 1) Acquire New Parts to Specifications
- 2) Clean Parts for Surface Contamination
- 3) Bake Ceramic Parts
- 4) Vacuum Degas all Metal Element Parts
- 5) Heli-Arc Weld Body and Feedthrough
- 6) Leak Check Welded Body
- 7) Assemble Elements
- 8) Install the Elements in the Clean Body
- 9) Leak Check
- 10) Bake-Out on Vacuum Manifold
- 11) Check for leakage current
- 12) Pinch off Seal
- 13) Clean Exterior
- 14) Check for Leakage Current

Ion Pump Rebuilding Process

- 1) Open Pump & Remove Elements
- 2) Disassemble Elements Completely
- 3) Clean Stainless Steel Parts
- 4) Replace Titanium and Tantalum Parts
- 5) Clean and/or Replace Ceramic Parts
- 6) Vacuum Degas all Metal Element Parts
- 7) Reassemble Elements
- 8) Install the Elements in the Clean Body
- 9) Leak Check
- 10) Bake-Out on Vacuum Manifold
- 11) Check for leakage current
- 12) Pinch off Seal
- 13) Clean Exterior
- 14) Check for Leakage Current

Now available is the option of our new **Galaxy™ Technology** for your next rebuild!