

## RECONDITIONED & WARRANTIED GUARDIAN 4 BURNBOX GAS SCRUBBERS

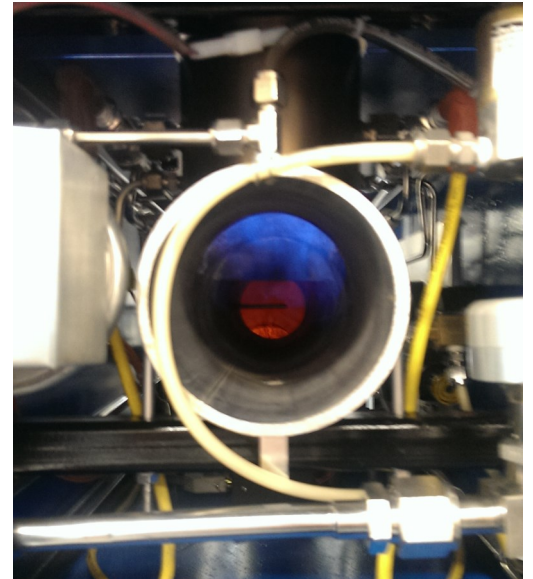
The Guardian is a point of use emission abatement device designed to thermally oxidize residual process gases (silane, arsine, phosphine, diborane and others) and process by-products in the effluent streams from manufacturing processes. The Guardian combustion chamber ensures ignition of flammable gases and prevents silane bubble formation for most concentrations and flow rates.

Critical Systems purchases, from CSI approved sources, high quality scrubbers that have been properly maintained and professionally decommissioned. Once received, each unit is completely reconditioned to perform flawlessly. Every reconditioned scrubber is backed with our "As-New" warranty.

### GUARDIAN RECONDITIONING PROCESS:

- Reaction Chamber Assembly is Removed, Decontaminated and Cleaned Internally and Externally.
- Temperature Switches and thermocouples checked and tested.
- Gas pressure switches checked and tested.
- Manifold torque to specifications.
- Ignitors are removed, inspected and replaced if necessary.
- The cabinet and frame are cleaned and painted if needed.
- The Guardian is Reassembled, Tested for Functionality and Sensor and Alarms are Checked for Correct Operation.
- The Guardian is then Tested at Full Temperature for 24 Hours to Ensure Good Working Order.

**Critical Systems offers both New and Reconditioned Exhaust Gas Scrubbers in a variety of technologies to handle the most stringent abatement applications. Please contact CSI for a no-cost evaluation of your abatement application.**



### **Guardian Selection Criteria:**

- Combustible gas
- Individual & Total Gas Flow Rates
- Duty Cycle
- Footprint
- Port sizes (1/2" to 2")

**Since 2000, Critical Systems, Inc. (CSI) has been supporting the breakthrough technologies of our customers with practical, cost effective solutions that "surround the process tool".**

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