



# Exhaust Gas Scrubbers

## Edwards Gas Reactor Column (GRC)

*Abatement Solutions for Hazardous Gases*

The Edwards Gas Reactor Column (GRC) uses a unique hot bed reactor technology to handle gas flows up to 60 slpm and destroy hazardous gases to below TLV (Threshold Limit Value) levels. GRCs require no water supply and present no duct corrosion issues associated with the back-streaming of moisture. Reactive process by-products are chemically converted to harmless inorganic salts that are locked into the cartridge allowing for safe disposal.

Critical Systems purchases, from CSI approved sources, high quality GRCs that have been properly maintained and professionally decommissioned. Once received, each GRC is completely reconditioned to perform as new.

### EDWARDS GRC RECONDITIONING PROCESS:

- The GRC is completely Disassembled, Decontaminated and Cleaned Internally and Externally.
- All O-Rings & Seals are Cleaned and Replaced Where Necessary.
- Reactor Column Cartridges are Replaced with New Reactor Cartridges.
- The GRC is Reassembled, Tested for Functionality; Sensors and Alarms are Checked for Correct Operation.
- The GRC is then Tested at Full Temperature for 24 Hours to Ensure Good Working Order.

### GRCs ABATE THE FOLLOWING GASES:

- Hazardous Organic Halides (metal etch by-products);
- Acid Gases ( $\text{BCl}_3$ ,  $\text{Cl}_2$ ,  $\text{HBr}$ , etc.);
- Hydrides ( $\text{SiH}_4$ ,  $\text{PH}_3$ ,  $\text{B}_2\text{H}_6$ , etc.);
- Implanter Gases ( $\text{AsH}_3$ ,  $\text{PH}_3$ ,  $\text{BF}_3$ , etc.)

***Critical Systems Reconditioned Gas Scrubbers come with a Six Month, Customer Satisfaction Warranty!***



Product Data — Edwards GRC Exhaust Gas Scrubbers

### **GRC Selection Criteria:**

- Mixture of Gases
- Individual & Total Gas Flow Rates
- Single or Dual Cartridge

***Please Contact Critical Systems for Pricing & Availability.***

