



# LECTRODRYER

Hydrogen Cooled Generator Auxiliary Experts

## Fast Degas CO<sub>2</sub> System

### APPLICATIONS:

The Lectrodryer Fast Degas CO<sub>2</sub> System allows for quick degassing of the generator while preventing lines from clogging with dry ice due to the expansion of the CO<sub>2</sub>. The Fast Degas CO<sub>2</sub> System helps reduce the time and cost involved during forced outages by allowing the generator to be purged and brought back online much more rapidly. This system also provides a risk mitigation tool to evacuate hydrogen during dangerous upset conditions

### FUNCTION:

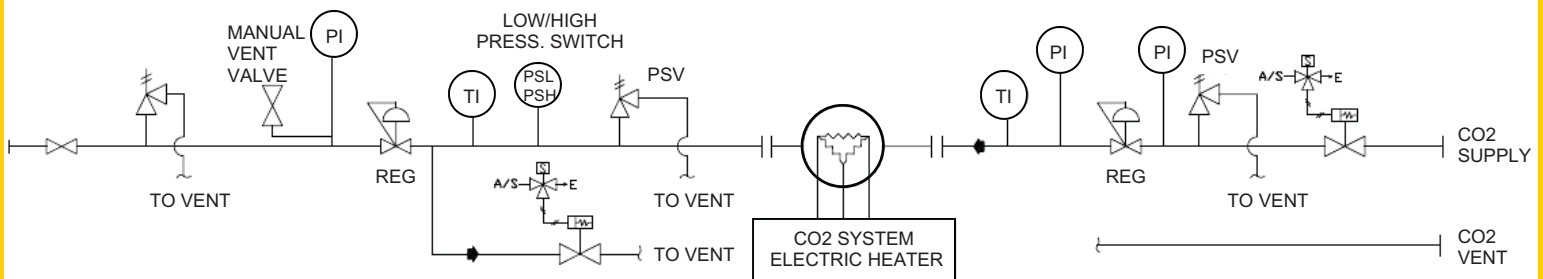
The Lectrodryer Fast Degas CO<sub>2</sub> System has the ability to deliver 370 NCMH (220 SCFM) of CO<sub>2</sub> to the generator. The CO<sub>2</sub> System controls the CO<sub>2</sub> pressure and heats the gas. This system is designed to maintain a set temperature where the CO<sub>2</sub> is evaporated, and where further depressurization will not form solid particles or extremely low temperatures.

### FEATURES:

- NEMA 4 enclosure with optional Type Z purge to meet Class 1, Division 2, Group B, C, D (for indoor installation)
- Heater designed to provide consistent flow rate under extreme weather and operating conditions
- Heater Controller
- Multiple Alarm Setup
- Optional CO<sub>2</sub> Mass Flow Totalizer
- Optional Backup Power Supply
- Available in ATEX and IECEx versions



### P&ID:

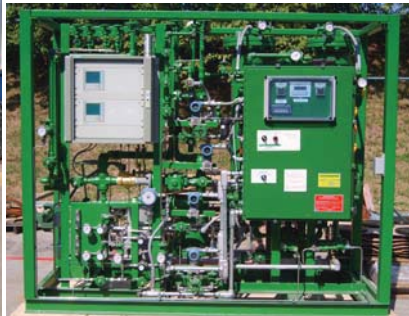


# Lectrodryer Power Sector Products

## Hydrogen Cooled Generator Auxiliaries

Hydrogen is used to cool large stationary generators because of hydrogen's high heat capacity and low density. It is vital that hydrogen remain dry in order to maintain these properties and prevent damage to the generator.

Lectrodryer's BAC-50 hydrogen dryer is a continuous automatic operating unit that guards against damage causing moisture which can lead to costly repairs and extensive down time. The BAC-50 reduces maintenance and minimizes operator involvement. Lectrodryer also offers the Gas Optimization Skid, which incorporates and unifies the typical generator auxiliaries. The Gas Optimization Skid can be tailored to meet customer specifications including such components as the BAC-50 dryer, gas control piping, continuous generator monitoring, generator purity monitoring, and liquid level detectors.



## Landfill Gas

The Lectrodryer Landfill Gas Compression System is designed to compress, clean, and deliver a volume of landfill gas at a specified pressure and quality. The LGCS strives for efficiency, one that minimizes initial cost and seeks to operate at the lowest possible horsepower.



## Lube Oil/Air Tanks

Lectrobreather tank vent dryers prevent atmospheric moisture from entering storage during "breathing" due to ambient temperature changes and draining periods. Valuable oils and chemical solutions remain free of water contamination.



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