

Protecting your hydrogen-cooled generator since 1932

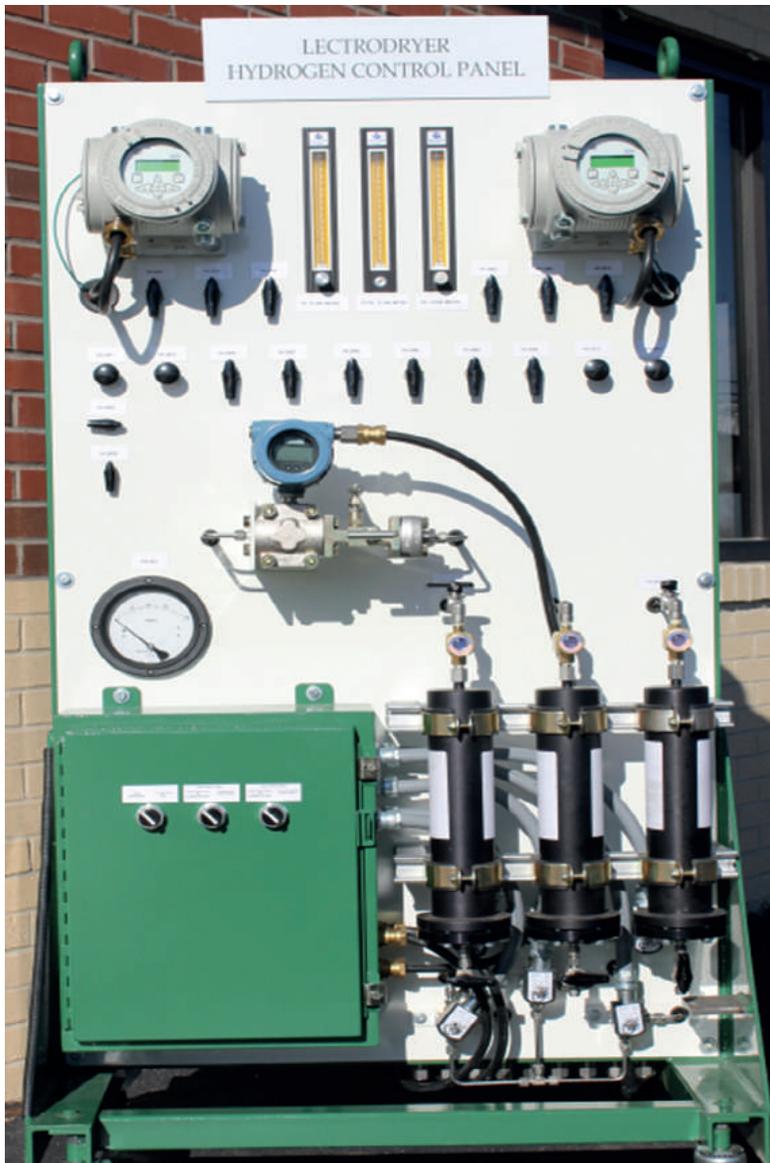
# LECTRODRYER

Adsorption technology experts since 1932

## Hydrogen Control Panel

Direct Replacement for GE Combined Cycle H<sub>2</sub> Cooled Generators

The Lectrodryer Hydrogen Control Panel monitors the gas in Hydrogen-Cooled Generators to enhance efficiency and safety. Dual gas purity analyzers monitor the purity of the generator gas. Pressure and differential pressure indicators continuously monitor the case pressure and fan differential pressure in the generator. Scavenging flow is monitored and controlled.



### FEATURES

- DCS Controlled
  - Two configurations:
    - Open Panel
    - NEMA 12 enclosure
- Continuous generator monitoring of case pressure and fan differential pressure
- Designed for use in a Class 1, Division 2, Group B hazardous area
- Scavenging system including manual low flow and automated high flow to improve purity
- Improved filtration
  - Particulate and coalescing oil vapor filters for drain enlargement connections
  - Moisture filters for purity analyzers
- Four flow indicators to monitor purity analyzer and scavenging flow rates
- Connections for:
  - Calibration gases
  - Portable purity analyzer
  - Sampling from vent line during purging
- Available in ATEX and IECEx versions for use in Zone 2 hazardous areas



# LECTRO DRYER

drying and purification equipment for:  
atmospheric or high pressure conditions - very small or very large air volumes, air, gases, and certain organic fluids

## Power Sector

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 GOS, which incorporates and unifies the typical generator auxiliaries. The GOS can be tailored to meet customer specifications including such components as the BAC-50 dryer, purity equipment, gas control piping, dewpoint instruments, core monitors, and annunciator cabinets.

## Compressed Air



Our equipment is used for reducing compressed air waste, improving compressed air system reliability, and improving compressed air quality.

## Gas Refining



Gases required for a process might be furnished with undesirable components that can range from water vapor to traces of other compounds and even solids. Lectrodryer can provide dehydration and purification systems to condition the gas to suit the application's requirements.

## Lectrodryer Filters



The Lectrodryer type SF and type F filters provide high efficiency filtration with ten sizes available in each type for flows to 8400 SCFM, larger sizes available on application. Both types have a high level filter efficiency of 99.985% retention (0.015 DOP penetration) for filtration to a 0.3 micron particle size and smaller.



Brochure Rev. 04



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