

LECTRODRYER

ADSORPTION TECHNOLOGY EXPERTS



Lectrodryer, LLC COMPANY PROFILE



Corporate Resume

Mission

To provide engineered and manufactured gas and liquid process solutions through knowledge and expertise of drying technology, purification, process control and equipment through safety, operational improvement, and cost-reduction strategies, LECTRODRYER partners with customers to add value to the power generation, refinery, chemical, government, heat-treating, and compressed-air markets.

Vision

To be the international market leader in engineered and manufactured gas and liquid process solutions

- Natural Gas Drying
- Solvent Drying
- Tank Breathers
- High Pressure
- Government Applications
- Chemical Plants
- Hydrocarbon Refining
- Gas Refining
- Controlled Atmosphere Gas Drying (Furnace — Metal Treatment)
- Gas Manufacturing
- H2 Cooled Generator Auxiliaries for Power Plants
- Compressed Air
- Low Pressure Air/Gas Systems

Experience

Founded in 1932, Lectrodryer has over 75 years of experience engineering and manufacturing adsorption drying equipment. With a highly experienced staff, Lectrodryer members of the engineering team average over 13 years of experience in the field. Lectrodryer focuses on continuous innovation seeking to design, engineer, and manufacture equipment to meet new and arising industrial purification applications.

Facilities and Operations

Lectrodryer has a 27,100 square foot facility in Richmond, KY (USA) . As an ISO 9001:2008 certified company and an ASME/PED code shop, Lectrodryer independently engineers, designs, and manufactures all industrial purification equipment and other engineered equipment. Lectrodryer currently has over 53 employees in its home facility. Lectrodryer is an international company with approximately 80 representatives worldwide and more than 70% of our sales are exported around the world.

Capabilities

Lectrodryer custom-designs dryers specific to customer specifications. Lectrodryer has dried and purified hundreds of gases, liquids, and solvents covering an extensive range of pressures, flows and various other conditions. Lectrodryer engineers and manufactures equipment to meet CE, ASME, ATEX, PED, UL, UM, NEMA codes, CSA, CCC and IECEx.



Products & Applications

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 Gas Optimization System, which incorporates and unifies the typical generator auxiliaries. The Gas Optimization System can be tailored to meet customer specifications including such components as the BAC-50 dryer, purity equipment, gas control piping, dew-point instruments, core monitors, and liquid level detectors.



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.



Fast Degas CO2 System

The Lectrodryer Fast Degas CO2 Evaporator system allows for degassing of the generator in under 20 minutes while preventing lines from clogging due to ice forming as a result of CO2 expansion.



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 lower possible horsepower.



Furnaces (Controlled Atmospheres)

Dehydration, purification, and recovery of atmospheric gas used in metal treating processes to avoid oxidation.



Compressed Air

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



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.



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.



Custom Units



To the left is NASA's recirculating air dryer system designed for operation in a wind tun-



To the left is a dryer designed for a solvent recovery company drying 10,000 gallons a day of mixed solvents.

Features



CRN



IECEX

SQL



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CONTINUING THE TRADITION OF QUALITY AND SERVICE SINCE 1932

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