

LECTRODRYER

ADSORPTION TECHNOLOGY EXPERTS



TYPE GAS-CC-CNG Compressed Natural Gas Dryer



Lectrodryer CNG Closed Circuit Dryer

Gas-CC-CNG Features

- Special formulation of molecular sieve to prevent heavy hydrocarbon adsorption and mercaptan loss.
- Close loop system maintains positive pressure throughout regeneration.
- Solid state PLC controller for state-of-the-art dryer control and adjustment.
- Class 1, Group D, Division II electricals.
- Heater elements have extremely low-watt density for extended durability and safety.
- Air or water-cooled inner-cooler.
- Centrifugal separator and condensate trap.
- ASME code vessels.
- Full instrumentation to monitor dryer performance.
- No depressurization or repressurization for desiccant life.

Optional Features

- Diagnostic Package A—switch failure, heater failure, blower motor failure.
- Diagnostic Package B— Lectrolod demand cycle and high humidity alarm.
- U.L. listed control panel.
- Coalescing prefilter, particulate after-filter, and other customer specified alarms and instrumentation.

Drying Cycles

Wet gas enters the Type Gas-CC-CNG Lectrodryer at the top 4-way valve. It is then directed through the left tower and through the desiccant bed. The dry gas exits through the bottom 4-way valve. The gas in the closed circuit is heated and routed through the right tower and then directed the condensable materials being driven off the desiccant.

At the end of the heating period, the heater is de-energized with the flow continuing to cool the bed. After cooling, the valves are switched and the same operations are repeated.

Sizing of Type Gas-CC-CNG Lectrodryers

The selection of a particular Type Gas-CC-CNG Lectrodryer for an application is somewhat more complex than the selection of a compressed air dryer. The various parameters that affect the sizing of the Type Gas-CC-CNG Lectrodryer are many. Because of the complex nature of the selection of this type of Lectrodryer, each problem should be handled individually.



LECTRODRYER HAS THE SOLUTION FOR ALL CNG DRYER PROBLEMS

Lectrodryer offers a complete range of drying and purification equipment:
For atmospheric or high pressure conditions
For very small or very large air volumes
For air, gases, and certain organic fluids

Lectrodryer offers a complete range of drying equipment of the CNG industry. For over 60 years Lectrodryer has been considered the leader in adsorption technology.

Today, Lectrodryer maintains an efficient and productive manufacturing facility in Richmond, KY. Strict quality control coupled with in-house engineering and advanced manufacturing techniques enable Lectrodryer to service any CNG application.

In addition to the GAS-CC-CNG Lectrodryer described in this brochure, Lectrodryer can offer a wide range of equipment for CNG service. Lectrodryer can also custom design dryers to meet your specific requirements.

Purge Type CNG Dryers

- Lower initial cost
- Recycle purge to inlet of compressor
- Dewpoints as low as -100°F can be achieved.

High Pressure Heatless or Heated CNG Dryers

- Pressure up to 6000 PSIG
- Purge or non-purge heated type
- Designed for any flow range

Refrigeration-Type Industrial Gas Dryer

Typical Application:

Low pressure situations for controlling atmospheric gases.

Features:

Power-on light, high temperature warning light, on/off switch, refrigeration analyzer gage, gas-out gage, gas-in temperature gage, low suction pressure cut-out, high head pressure cut-out, hot gas bypass capacity control, start push button pump down shut off cycle, oil pressure control, and suction accumulator.

Optional Features:

Special control and electrical enclosures.



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.



CONTINUING THE TRADITION OF QUALITY AND SERVICE SINCE 1932

LECTRODRYER

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