



LECTRODRYER

ADSORPTION TECHNOLOGY EXPERTS

LAB - LABORATORY AIR DRYER

DRIES AIR IN LABORATORY VOLUMES COMPACT—PORTABLE—INEXPENSIVE

Typical applications for Model LAB include:

- Filling lamps (drying gases-argon, etc)
- Drying gases for refrigeration unit testing
- Infrared spectrometer
- As auxiliary for laboratory desiccant box
- In electronic wave guides
- Drying hydrogen for small sintering furnaces after catalytic oxygen removal or to protect heating elements
- Removing moisture from atmosphere in which materials are to be cooled, to preclude to possibility of condensation
- Supplying dry air for testing effects of moisture in air on various products or processes
- Dehumidifying drying cabinet

Lectrodryer's Laboratory Air Dryer is ideal for experimental or small pilot operations. It provides a low-cost means of evaluating the advantages of utilizing dry air or gas for various products and processes.... And of determining the effectiveness of adsorption in organic liquid drying. Or, it can provide a dry atmosphere for cooling materials. It is simple to use, and has a connected load of less than 500 watts, on 110 volt a.c.

You can dry air or other gases at pressures up to 150 psig— however, the unit will operate on pressures as low as 2" of water. A constant flow— at flow rates up to 100 cubic feet of air per hour— can be supplied for laboratory use. This flow rate can be greatly exceeded for limited periods. Dewpoints as low as -60°F are readily obtained. In actual practice, the unit has dried gases to dewpoints well below -100°F .

Reactivation is as simple as plugging a cord into any handy 110 volt a.c. or d.c. socket for 2 to 3 hours. A small quantity of air should be passed through the dryer to carry off the released moisture. Up to 3,500 grains of water can be absorbed before reactivation.

The Laboratory Lectrodryer is built to provide long-term, dependable service. Its desiccant can be re-used indefinitely. However, where a change of desiccant is indicated to prevent previously adsorbed materials from invalidating tests, the change is easily and quickly accomplished. The exterior of the Laboratory Lectrodryer is of steel and the heating elements are of nichrome wire.



SPECIFICATIONS:

Model	LAB
Capacity	Up to 110 cubic feet per hour (greater for limited periods)
Dewpoints	-60°F most applications, well below -100°F in some instances
Power	110 volt a.c.; 500 watt load
Dimensions	10"x13"x26"
Shipping Weight	40lbs

LECTRODRYER HAS THE SOLUTION FOR ALL COMPRESSED AIR AND GAS DRYING 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

Regenerative Adsorption Dryer

Typical applications:

Drying compressed air for instruments; purging of refrigeration coils, compressors, and systems; drying air for ozone generators; vacuum-breaking operations controlled atmosphere gas



Features:

Carbon steel pressure vessels with ASME Code (where applicable) for up to 150 PSIG Stainless steel perforated metal desiccant support and inlet flow diffuser, sheathed or non sheathed heating element in which each adsorber vessel with thermostatic over temperature protection in the heater bundle, two 4-way lubricated plug valves with air piston operator and solenoid valve controls, thermal pressure relief valves, pressure gages, dial thermometer in the purge outlet, 110 volt controls and NEMA 1 electrical enclosures.

Optional Features:

Special controls and electrical enclosures.

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.

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.



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



CONTINUING THE TRADITION OF QUALITY AND SERVICE SINCE 1932

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