

Protect Your Product Quality with LLT Lectrodryers

LECTRODRYER

adsorption technology experts since 1932

LLT-REFRIGERATION TYPE INDUSTRIAL GAS DRYERS FOR ATMOSPHERIC PRESSURE APPLICATIONS

Moisture can severely impact the quality of products in industrial gas systems, causing downtime, expensive repairs, product rejections, and lost production. LLT Lectrodryers are here to help!

Why Choose LLT Lectrodryers?

Effective Moisture Control: LLT dryers reduce moisture levels in gas systems, minimizing the risk of product rejection.

Cost-Effective Operation: Our dryers offer a reliable and economical solution for gas drying with minimal maintenance.

Compact Design: The LLT's compact size saves valuable floor space without compromising performance.

Ideal for Low-Pressure Gases LLT dryers are perfect for gases like hydrogen, nitrogen, and exothermic gas at atmospheric pressure. They are designed to continuously supply dried gas, making them ideal for nearly all low-pressure gas-drying needs.

High Efficiency

- **Dewpoint Reduction:** Lowers gas dewpoint to between 35 and 40°F.

- **Moisture Reduction:** Achieves up to 85% reduction in moisture content when gas enters the LLT between 100 and 120°F.

Need Assistance? Concerned about moisture affecting your industrial gas system? Contact your Lectrodryer representative for a free plant survey and personalized recommendations for the right dryer to meet your needs.



www.lectrodryer.com



How the Lectrodryer LLT works

1. Hot, saturated gas from the aftercooler, typically between 100 and 120°F, enters the gas-to-refrigerant heat exchanger
2. Heat transfer takes place between the refrigerant in the tube side of the evaporator coil and the gas. The refrigerant absorbs the heat from the gas side, reducing the gas temperature to between 35 and 40°F.
3. As the gas travels through the exchanger and cools rapidly, the moisture condenses out of the gas, thus reducing the dewpoint to between 35 and 40°F.
4. The cooled gas now reenters the system significantly cooler and drier than when it entered the Lectrodryer LLT.

Standard Features

1. Power on light
2. High temperature warning light
3. ON/OFF switch
4. Refrigeration analyzer gauge
5. Refrigeration head pressure gauge
6. Gas in temperature gauge
7. (Low) Suction Pressure cut-out
8. (High) Head Pressure cut-out
9. Hot gas bypass capacity control

Optional Features

10. Low ambient temperature control
11. Ambient air filter
12. High pressure drop warning light
13. Crankcase heater

Note:

- All models are water cooled (this is the standard option; air cooling optional)
- Welded hermetic sealed compressor
- Refrigerants: R-134a, R-404a, R-407C
- Pump-down refrigerant control is standard on larger Lectrodryer LLT's
- Electrical Nema-1 general purpose (NEMA-4 upon request)



Information contained in this brochure is for reference only and needs to be confirmed by a Lectrodryer representative.



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