

# LIQUID NITROGEN GENERATORS



## LIQUID NITROGEN GENERATOR: LIQUEFIER

### ***GAS IN - LIQUID OUT!***

The innovative Cryocool design liquefies nitrogen gas and transfers it via a stainless steel flexible transfer line to a portable storage dewar.

Nitrogen Gas flows into the Cryocool Liquefier via the inlet port and liquid nitrogen flows out the nozzle.

This small foot-print design allows for ease of use. There is no need to bring your experiment or separate laboratory dewars to the generator/liquefier.

*Reduced safety risks by eliminating storage and use of high pressure tanks*

*No more waiting for deliveries*

*Eliminates cost of buying liquid nitrogen or liquid helium*

### ***THE CLOSED CYCLE REFRIGERATOR***

The refrigerator operates on the Gifford-McMahon (GM) gas expansion cycle. A compressor circulates helium gas in an internal closed loop back and forth, to and from the refrigerator.

This compressed gas is cooled by expansion, providing the cooling needed for liquid nitrogen generation. Just add electricity and water (for compressor cooling). The loop is 'closed cycle', which means helium gas does not need to be added.



### **LIQUID NITROGEN GENERATOR MODELS:**

- Cryocool-LN7: 7 liters per day
- Cryocool-LN32: 32 liters per day

### **LIQUID NITROGEN GENERATOR FEATURES:**

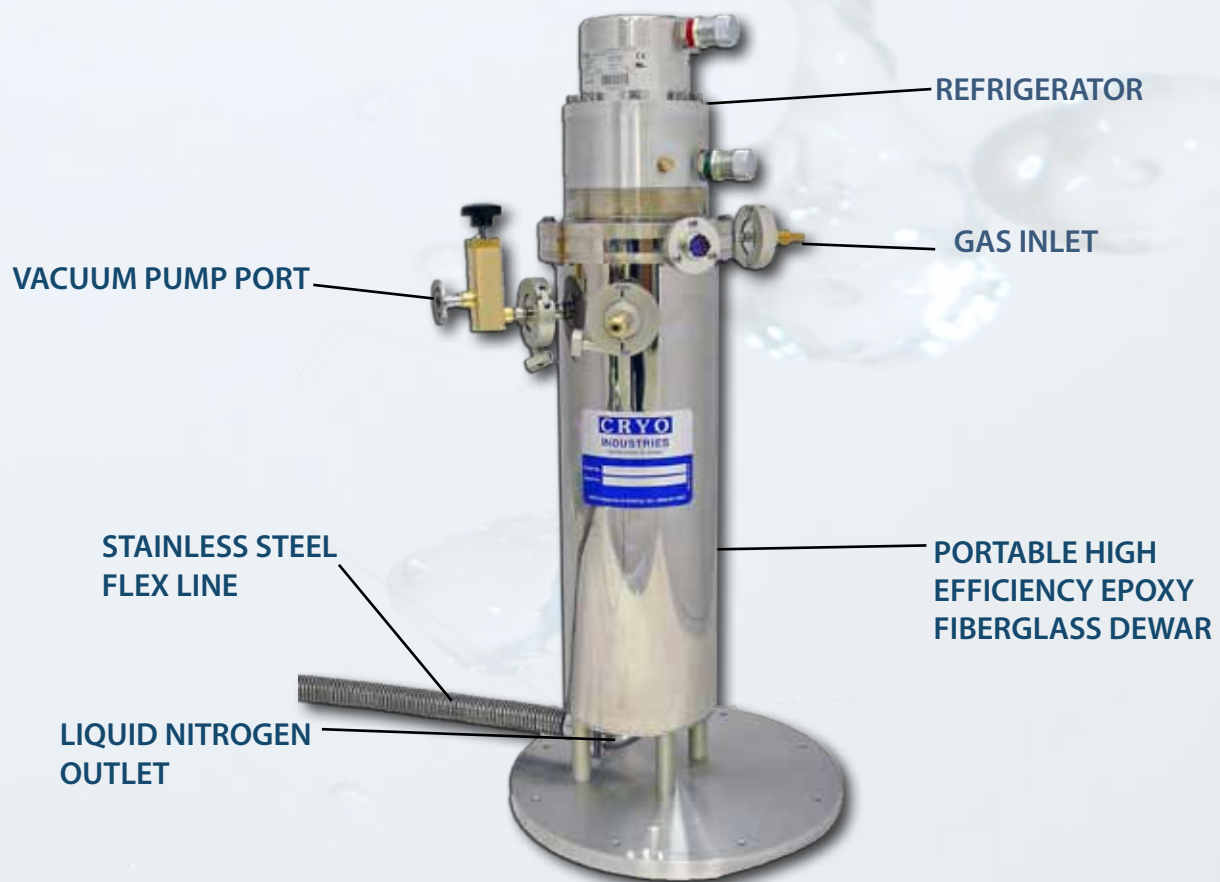
- 24 hour/day automatic operation
- Liquid level monitors installed in dewars, digital continuous readout
- Supplied with a high efficiency, light-weight epoxy fiberglass dewar
- Water cooled compressor standard (air or chiller cooler optional)
- Optional nitrogen gas generator

LN<sub>2</sub> flows out, Stand-alone flow out (spigot) design.

Easy to use, convenience and no permanent attachment to a dewar

Nitrogen gas flows into the inlet port and liquid nitrogen flows out the nozzle. **Small footprint design.**

No need to bring your experiment or separate laboratory dewars to the generator.



**Select: 7 or 32 liters/day**



*Cryocool-G2 Liquefier connected to portable storage dewar*



*Cryocool-LN32 (32l/day Model)*



*Cryocool-LN7 (7l/day Model)*



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