

# KIC

*Excellence in Cryogenics*

## NL-280 Liquid Nitrogen Generator

**COMPLETE AND READY TO OPERATE**  
**RELIABLE**  
**DURABLE**  
**FULLY AUTOMATIC**  
**SAFE AND ERGONOMIC**  
**CE COMPLIANT**  
**FAST DELIVERY**



### PRODUCT DESCRIPTION:

A fully integrated and completely assembled Liquid Nitrogen Generator arrives at the customer's mine or bio-lab facility. Within minutes, the generator is making high purity Nitrogen Gas and filling the internal storage tank. Fully automatic controls manage the operation, production, and safety of the system. Digital bar-graph displays the internal storage levels and satellite dewars. Analog outputs and alarms offer the safety and security demanded by most laboratory customers.

Optional Vacuum Jacketed stainless steel lines are used to connect the NL-280 to the customers' dewars and points of delivery. The internal cryogenic refrigerator turns on and off, as required for fully automatic operation. The liquid is stored in the internal 120 liter tank and is ready for automatic or manual extraction

All is assembled in the USA and is based on the KIC proprietary gas management and digital liquid level controls technology. For more information call or visit us on our web site. Our engineers will be glad to provide additional information and application notes pertaining to other gases and installation options.

### APPLICATIONS:

Mining  
NMR, Chemistry, and Physics Facilities  
Artificial Insemination  
Biological Storage Facilities  
Portable Laboratories

### CONFIGURATIONS:

Water Cooled for up to 50° C Operation  
Up to 4,500 meters Operation  
Fully Assembled and Tested  
Feeding Several External Dewars

### PERFORMANCE:

Liquefaction Rate: 40 Liters per Day  
Storage Capacity: 120 Liters  
Controls: PLC and Touch Screen  
(1)Certifications: CE

### REQUIREMENTS:

Cooling Water: 5.6 lpm at 20°C  
Environment: 10° - 38° C  
Power: 208-240 V, 3P, 50/60 Hz  
(2) Dimensions in mm: 1830<sup>W</sup> 900<sup>D</sup> 1830<sup>H</sup> 470 kg

### NOTES:

- (1) SEMI S2 Available in 2008-3Q, NRTL or TUV is available as a purchased option
- (2) Dimensions can vary depending on customer specified configuration and options

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