

KIC

Excellence in Cryogenics

M50 Nitrogen Generator



PRODUCT DESCRIPTION:

A fully integrated and completely assembled Liquid Nitrogen Generator arrives at the customer's semiconductor or bio-lab facility. Within minutes, the generator is condensing 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.

Up to three satellite dewars can be managed by the M50 Liquid Nitrogen Generator. Vacuum Jacketed stainless steel lines are used to connect the M50 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 60 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:

Solid State Detectors (SSD)
SEM and CCD Instruments
X-Ray Crystallography
Controlled Rate Freezers
Biological Storage Devices

CONFIGURATIONS:

Stand Alone with Compressor
Seismic Bolting or Casters
Split Configuration with Compressor in Grey Area
Feeding Several External Dewars
Dedicated use with Tool or Instrument

PERFORMANCE:

Liquefaction Rate: 10 –12 Liters per Day
Storage Capacity: 60 Liters
Controls: PLC and Touch Screen
(1)Certifications: CE and Others

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: 700^W 900^D 1800^H 370 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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