

## TECHNICAL DATA SHEET

### 'Khione' - LN2 Generation Plants

**Features**

- Range of Flow-rates
- Complete Solution
- Compact and Quiet design
- Built in Nitrogen PSA
- Automatic operation
- Energy saving mode
- LN2 Dewar Liquid Level
- N2 Gas Outlet as standard
- Trend graphs into MS excel
- Alarms with help menu
- Remote access via internet

**Applications**

- Storage of Samples (IVF industry)
- Hospitals and Laboratories
- Metal treatment (rapid cooling)
- Super-conductivity
- Theme Parks
- Film Production

**Options**

- Custom Screens
- Oxygen analyser on gas outlet
- Dew-point sensor

**'Khione LN2', is the range of stand alone Liquid Nitrogen Generators from NobleGen Products.**

Utilising the reliable 'Cryo-refrigerator' design of a cold head and helium compressor, nitrogen gas is produced using the PSA technique which is then cooled to 77K (-196c) to produce liquid nitrogen. The Generators are controlled using the latest in HMI touch screen technology to display the process in real-time, dewar liquid level, PSA nitrogen production, trend graphs and more.....



Typical display

**Models available:-**

- LN10 - 10 L/day (0.42 L/hr)
- LN20 - 20 L/day (0.83 L/hr)
- LN40 - 40 L/day (1.70 L/hr)
- LN60 - 60 L/day (2.5 L/hr)
- LN120 - 120 L/day (5.0 L/hr)

**Overview:-**

Khione LN2 Generation Plants from NobleGen Products is your reliable and efficient alternative to conventional liquid nitrogen supplies. Taking away the on-going costs, safety considerations of deliveries, transportation of traditional liquid gas supplies, the 'KHIONE' on-site Liquid Nitrogen systems are some of the most advanced and intelligent available. The control system gives the user all the information necessary to ensure an efficient and consistent supply of liquid nitrogen and nitrogen gas are always available. From the process to flow and alarms, including automatic operation, Trend graphs, service alarm and service records page, there is simply no other liquid nitrogen system quite like KHIONE.

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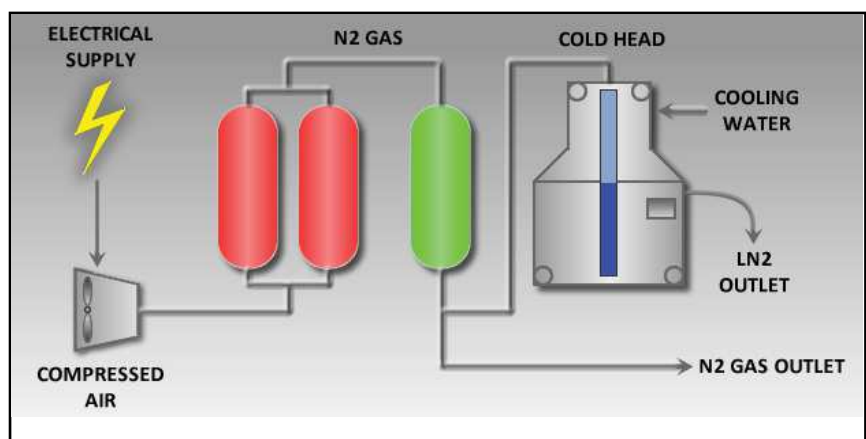
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Technical Specification							
Models	L/Day	L/Hr	Dewar Capacity (L)	N2 Gas (l/min)	Electrical Supply	Power (Kw)	Cooling Water (L/min @ 27°C)
LN10	10	0.42	35	5.5	230v	2.2	2.8
LN20	20	0.83	100	11.0	230v	4.0	4.5
LN40	40	1.70	160	13.0	415v	5.5	6.0
LN60	60	2.50	210	33.0	415v	7.5	7.6
LN120	120	5.0	300	65.0	415v	15.5	11.4

Specification based on ambient temperature range of 7°-38°C (45°-100°F) and maximum altitude of 3,000 m (10,000 ft). For any other conditions please contact NobleGen technical department.



System Schematic Diagram

Dimensions & Weights				
Models	Height mm	Width mm	Depth mm	Weight Kg
LN10	1600	1200	600	150
LN20	1600	1200	600	200
LN40	1600	1600	800	300
LN60	1600	1600	800	350
LN120	1600	2000	1800	450

