

## 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

#### ASYNT

29 Hall Barn Road  
Industrial Estate  
Isleham, Ely  
Cambridgeshire  
CB7 5RJ  
UNITED KINGDOM  
T: +44(0)1638 781 709  
F: +44(0)1638 781 706

E: sales@asynt.com  
W: www.asynt.com

**'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.

## TECHNICAL DATA SHEET

### 'Khione' - LN2 Generation Plants

#### Features

Range of Flow-rates  
Complete Solutions  
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

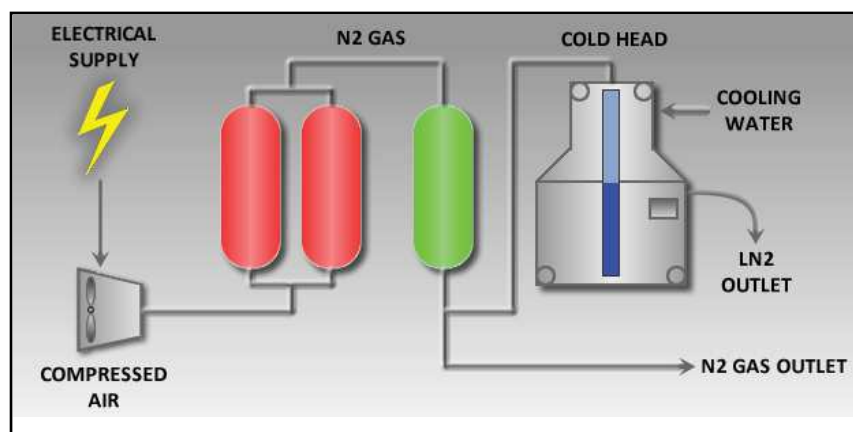
Storage of Samples (IVF Industry)  
Hospitals and Laboratories  
Metal Treatment (rapid cooling)  
Super-conductivity  
Theme Parks  
Film Production

#### Options

Custom Screens  
Oxygen analyser on gas outlet  
Dew-point sensor

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	1200	800	300
LN60	1600	1200	800	350
LN120	1800	1800	800	450



#### ASYNT

29 Hall Barn Road  
Industrial Estate  
Isleham, Ely  
Cambridgeshire  
CB7 5RJ  
UNITED KINGDOM  
T: +44(0)1638 781 709  
F: +44(0)1638 781 706

E: sales@asynt.com  
W: www.asynt.com