

# CRYOGEN.40-RA

## SMART & CLEVER Liquid Nitrogen Generator

Reference : CRYOGEN.65-RA



### Description

The CRYOGEN.40-RA is the "Air cooled" liquid N<sub>2</sub> generator from F-DGSi.

Utilising a reliable 'Cryo-refrigerator' design of cold head technology and helium compressor, the nitrogen gas is then produced using the PSA technology which is cooled to 77K (-196°C) to produce liquid nitrogen.

The Generators are controlled using the latest in HMI touch screen technology to display the process in real-time, showing the liquid level of the dewar, PSA nitrogen production giving a fully automated system at the touch of a button with remote access for diagnostic control.

The liquid nitrogen can be dispensed using a 1.5 meter vacuum insulated hose. The integrated cooling fans can operate with air cooling up to +45°C ambient temperature, making it suitable to operate everywhere in the world.

### Applications

IVF (storage of samples)

Cryotherapy

Dermatology

Lab applications

Metal treatment

Animal Husbandry

### Benefits & Savings

CryoGen Generation Plants 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.

Your on-site Liquid Nitrogen systems will be some of the most advanced and intelligent available.

The control system gives the user all the information necessary to ensure an efficient and consistant 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.

WITH ENERGY SAVING TECHNOLOGY



UNIQUE AND INTELLIGENT OPERATOR INTERFACE WITH REMOTE ACCESS



### Standard Features

- Intelligent color touch screen to provide simple and user friendly management of all functions of the unit
- Fully regenerative PSA technology with oil free air compressor
- Helium Compressor Air cooled, no water chiller required
- Liquid Nitrogen @99% purity
- LN2 Dewar Liquid Level sensor
- Vacuum prevention system on liquid dewar
- Built in O<sub>2</sub> analyser with alarm
- Audible alarm display and Visual maintenance indication with history log
- Automatic operation
- Remote PC monitoring and diagnostic analysis via USB to interface the unit with customer's PC software (allow to carry out checks and maintenance effectively, only via a remote connection)
- Energy Saving Technology (EST):
  - Switch off the air compressor when gas supply is not required
  - Allowing low energy consumption and increasing durability of the air compressor
- Quiet thanks to the Soundproofed compressor box and anti-vibration features
- Wheels for easy installation

LIQUID  
N<sub>2</sub>

MODEL	CRYOGEN.40-RA
GENERAL INFORMATIONS	
Max L/Day	40
Max L/Hour	1.67
Liquid N2 Purity	> 99% (< 1% O2)
Liquid N2 Dewar Capacity (L)	210
Liquid N2 Pressure (bar)	1.5*
Color controller with «touch screen»	Showing more parameters: Compressed air pressure, Nitrogen gas pressure, The pressure in the storage vessel, Liquid level %, Liquid production in l/h, Oxygen Levels %
Temperature range	7 - 25°C (45 - 77°F)
Cryogen Enclosure on wheels (W x H x D)	180 x 196 x 80 cm (71" x 77" x 31")
Cryogen Enclosure weight (kg/lbs)	506 / 1115
Electrical supply	200 V ac / 3 ph + neutral and earth / 50 - 60 Hz 380 - 440 V ac / 3 ph + neutral and earth / 50 - 60 Hz
Power consumption (Kw)	4.2
Noise level	< 60 dBA
CONNECTIONS	
Inlet/outlet for Cryogen	G 3/8
COMMUNICATION	
USB/PC Control	In series

Cryogen production rate at + 25°C and < 2000 meters altitude at 50Hz.

## Options



1 | Cryogenic Safety Equipment



2 | Cryogenic Hoses



3 | Additional dewars

4 | Internet Connectivity

5 | SMS Text

## [F-DGSI Care]

Les produits sont garantis 24 mois\*. Au-delà, votre investissement continue d'être soutenu par notre programme de maintenance [F-DGSI Care]. Notre assistance technique de classe mondiale offre une maintenance préventive programmée pour assurer une performance optimale de votre générateur de gaz F-DGSI et une intervention prioritaire en cas de défaillance.

\*L'année 2 de la garantie est soumise à l'entretien du générateur à la fin de la première année par un agent agréé par F-DGSI conformément au programme d'entretien annuel fixe. Pour les termes et conditions complets, visitez [www.f-dgs.com](http://www.f-dgs.com)

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Certified Product

