

# CALYPSO

## Nitrogen Gas Generator for LCMS

Reference : CALYPSO.[Flow rate]/0 (Without compressor)  
CALYPSO.[Flow rate]/1 (With compressor)



### Description

With 5 models, 15 L/min to 70 L/min, the CALYPSO Nitrogen range provide a nitrogen solution for LCMS instrument with an increase pressure of 8 bar (116 psi).

The CALYPSO is available without or with integrated oil free air compressor using the **Energy Saving Technology mode (EST)**. It is extremely compact and quiet in operation.

The generator is controlled using the latest in color touch screen technology to display the process in real time, inlet / outlet pressure, N2 Flow and status of the system with remote access for diagnostic control.

Utilizing **Smart Triple Filtration and Advanced technology PSA** of separating Nitrogen and Oxygen to produce high quality Nitrogen gas on demand 24/7.



UNIQUE AND INTELLIGENT OPERATOR INTERFACE WITH REMOTE ACCESS

### Applications

LC-MS

Small sample evaporation

### Benefits & Savings

#### INCREASED LABORATORY EFFICIENCY

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

#### IMPROVED ECONOMY

Pure nitrogen gas produced as standard.

#### IMPROVED SAFETY

Nitrogen produced at low pressure and ambient temperature removes the need for high pressure cylinders.

#### SECURITY OF SUPPLY

Integral oil free air compressor as an option guarantees continuous gas supply, independent of in house compressed air supply.

#### SIMPLE INSTALLATION

Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere.

### Standard Features

- Intelligent color touch screen to provide simple and user friendly management of all functions of the unit
- Fully regenerative PSA technology
- High Nitrogen pressure up to 8 bar (116 psi)
- Smart triple filtration PSA technology producing analytical grade nitrogen gas up to 99.99% purity
- With integral oil free air compressor
- Quiet thanks to the Soundproofed compressor box and anti-vibration features
- Auto start
- Audible alarm display and Visual maintenance indication with history log
- Outlet flow indicator
- Energy Saving Technology (EST):
  - Switch off the compressor when gas supply is not required
  - Allowing low energy consumption and increasing durability of the compressor
- 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)
- Compact design
- Compressors redundancy
- Fit with wheels

N2

MODELS	CALYPSO.15		CALYPSO.25		CALYPSO.35		CALYPSO.64		CALYPSO.70
Compressor	0 (Without)	1 (With)	0 (Without)	1 (With)	0 (Without)	1 (With)	0 (Without)	1 (With)	1 (With)
<b>GENERALS INFORMATIONS</b>									
<b>Max Nitrogen Flow rate</b>	15 L/min		25 L/min		35 L/min		64 L/min		70 L/min
<b>Max Nitrogen pressure</b>	8 bar (116 psi)								
<b>Nitrogen purity*</b>	99% - 99,99%								
<b>Particles</b>	0.01 µ								
<b>Inlet Air flow required @ 9 bar (130.5 psi)</b>	53 L/min	N/A	68 L/min	N/A	109 L/min	N/A	145 L/min	N/A	N/A
<b>Min Inlet Air quality</b>	ISO8573 - 1:2010 1.4.1	N/A	ISO8573 - 1:2010 1.4.1	N/A	ISO8573 - 1:2010 1.4.1	N/A	ISO8573 - 1:2010 1.4.1	N/A	N/A
<b>Touch screen</b>	Touch screen (operating parameters, system status, alarms and maintenance)								
<b>Max Relative Humidity</b>	80% RH @ 25°C (77°F)								
<b>Temperature range</b>	From 5 - 35°C (41 - 95°F)								
<b>Max Altitude</b>	3000 Meters								
<b>Noise level @ 1M</b>	53 dB (A)								58 dB (A)
<b>Dimensions (W x H x D)</b>	47.5 x 66.2 x 79 cm (18.7" x 26" x 31")							47.5 x 100 x 79 cm (18.7" x 39" x 31")	
<b>Weight (kg/lbs)</b>	94 / 207	118 / 260	94 / 207	118 / 260	94 / 207	118 / 260	115 / 253	160 / 353	172 / 379
<b>Electrical supply</b>	220 - 240 V ac / 1 ph / 50 - 60 Hz								
	110 - 120 V ac / 1 ph / 50 - 60 Hz								
<b>Fuse</b>	10A								
<b>CONNECTIONS</b>									
<b>Nitrogen outlet</b>	1/4" GF								
<b>Air Inlet</b>	1/4" GF	N/A	1/4" GF	N/A	1/4" GF	N/A	1/4" GF	N/A	
<b>COMMUNICATION</b>									
<b>USB/PC Control</b>	In series								

\* Factory certified purity with respect to O2 content. Actual purity varies in relation to flow (min. 99% at maximum flow output)

**Gold Service**  
— Satisfaction Guaranteed —

The products are guaranteed 24 months\*. Beyond, your investment continues to be supported by our maintenance program **[Gold Service]**. Our world class technical assistance offers Programmed preventive maintenance to ensure optimal performance of your Gas generator F-DGSI and a priority intervention in case of failure.

\*Year 2 of warranty subject to generator being serviced at end of the first year by a F-DGSI-approved agent in accordance with fixed annual maintenance schedule. For full terms and conditions, visit [www.f-dgs.com](http://www.f-dgs.com)

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