

# CALYPSO M

## Nitrogen Gas Generator for LCMS

Reference : CALYPSO.M.[Flow rate]/1 (With compressor)



### Description

With 2 models, 35 L/min & 70 L/min , the CALYPSO M Nitrogen range provide a nitrogen solution for LCMS instrument with an increase pressure of 8 bar (116 psi).

The CALYPSO M is available 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** of separating Nitrogen and Oxygen to produce high quality Nitrogen gas on demand 24/7, up to 99,5% purity.



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
- High Nitrogen pressure up to 8 bar (116 psi)
- Smart triple filtration producing analytical grade nitrogen gas up to 99.5% 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
- Fit with wheels

N2

MODELS	CALYPSO.M.35	CALYPSO.M.70
Compressor	1 (With)	1 (With)
GENERALS INFORMATIONS		
Max Nitrogen Flow rate	35 L/min	70 L/min
Max Nitrogen pressure	8 bar (116 psi)	7 bar (101 psi)
Nitrogen purity*	97% - 99.5%	97% - 99%
Particles	0.01 μ	
Phthalates	Phthalate & BHT Free	
Suspended Liquids	None	
Non-Methane Hydrocarbon Content	< 1 ppm NMHC	
Inlet Air flow required @ 9 bar (130.5 psi)	N/A	
Min Inlet Air quality	N/A	
Touch screen	Touch screen (operating parameters, system status, alarms and maintenance)	
Max Relative Humidity	80% RH @ 25°C (77°F)	
Temperature range	From 5 - 35°C (41 - 95°F)	
Max Altitude	3000 Meters	
Noise level @ 1M	53 dB (A)	55 dB (A)
Dimensions (W x H x D)	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")
Weight (kg/lbs)	89 / 196.2	145 / 319
Electrical supply	220 - 240 V ac / 1 ph / 50 - 60 Hz	
	110 - 120 V ac / 1 ph / 50 - 60 Hz	
Fuse	10A	15A
CONNECTIONS		
Nitrogen outlet	1/4" GF	
Air Inlet	N/A	
COMMUNICATION		
USB/PC Control	In series	

\* Factory certified purity with respect to O2 content. Actual purity varies in relation to flow (min. 97% at maximum flow output)

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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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