

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.



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)
GENERALS INFORMATIONS									
Max Nitrogen Flow rate	15 L/min		25 L/min		35 L/min		64 L/min		70 L/min
Max Nitrogen pressure	8 bar (116 psi)								
Nitrogen purity*	99% - 99,99%								
Particles	0.01 µ								
Inlet Air flow required @ 9 bar (130.5 psi)	53 L/min	N/A	68 L/min	N/A	109 L/min	N/A	145 L/min	N/A	N/A
Min Inlet Air quality	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
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)								58 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)	94 / 207	118 / 260	94 / 207	118 / 260	94 / 207	118 / 260	115 / 253	160 / 353	172 / 379
Electrical supply	220 - 240 V ac / 1 ph / 50 - 60 Hz								
	110 - 120 V ac / 1 ph / 50 - 60 Hz								
Fuse	10A								
CONNECTIONS									
Nitrogen outlet	1/4" GF								
Air Inlet	1/4" GF	N/A	1/4" GF	N/A	1/4" GF	N/A	1/4" GF	N/A	
COMMUNICATION									
USB/PC Control	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

F-DGSI France
365 Avenue de Rio - 77127 Lieusaint France
Tel. : +33(0)1 64 98 21 00
Fax. : +33(0)1 64 98 00 43

Email : info@f-dgs.com
Web : www.f-dgs.com

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