

# CALYPSO DP.TH

## Nitrogen Gas Generator for Thermo LCMS

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



### Description

With 2 models, the CALYPSO DP.TH, specifically designed for Orbitrap Exploris LC MSMS from Thermo. The CALYPSO DP.TH provides two different purities of nitrogen from a single "plug & play" unit. The CALYPSO DP.TH 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 pressures, N2 Flows 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

Orbitrap Exploris 120, 240 & 480 LCMS

### 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
- Two different nitrogen purities and pressures
- Smart triple filtration PSA technology producing analytical grade nitrogen gas > 99% and > 99,999% 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.DP.TH.35   | CALYPSO.DP.TH.70                       |
|--------------------------------|--|--|
| Compressor                     | 1 (With)   | 1 (With)                               |
| <b>GENERALS INFORMATIONS</b>   |  |  |
| Max Nitrogen Flow rate         | 35 L/min @ 7 bar (101 psi)   | 70 L/min @ 7 bar (101 psi)             |
| High Purity Nitrogen Flow rate | 2 L/min @ 6 bar (87 psi)   | 4 L/min @ 6 bar (87 psi)               |
| Nitrogen purity                | > 99%  |  |
| High Purity Nitrogen purity    | > 99.999%  |  |
| Particles                      | 0.01 $\mu$   |  |
| 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)  |  |
| 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)                | 122 / 269  | 174 / 384                              |
| Electrical supply              | 220 - 240 V ac / 1 ph / 50 - 60 Hz   |  |
|                                | 110 - 120 V ac / 1 ph / 50 - 60 Hz   |  |
| Fuse                           | 10A  |  |
| <b>CONNECTIONS</b>             |  |  |
| Nitrogen outlet                | 1/4" GF  |  |
| Air Inlet                      | N/A  |  |
| <b>COMMUNICATION</b>           |  |  |
| USB/PC Control                 | In series  |  |

**Gold Service**  
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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)

F-DGSi France  
 8, 10 rue du Bois Sauvage, bat Q18 - 91000 Evry France  
 Tel. : +33(0)1 64 98 21 00  
 Fax. : +33(0)1 64 98 00 43

Email : [info@f-dgs.com](mailto:info@f-dgs.com)  
 Web : [www.f-dgs.com](http://www.f-dgs.com)

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