

High Pressure Nitrogen Generator

« Eurus HP-ASE »

The nitrogen generator has been specifically designed to meet the gas flow, purity and pressure requirements of ASE extraction systems.

The Nitrogen generator use pressure swing adsorption technology (PSA) combined with a pressure management in two steps to produce pure nitrogen gas with a high flow, pressure and purity.

The nitrogen generator, model Eurus High Pressure, the only one on the market working up to 11 bar (159 psi).

Applications :

- Accelerated Solvent Extraction devices
- Pressurized Solvent Extraction devices working at high pressure level (ASE-200, ASE-300, ASE-350 from Dionex)



BENEFITS AND SAVINGS

> Improve analytical instruments performance

Production of a constant flow of gas improves the consistency of the analysis results and hence reproducibility.

> Improve laboratory efficiency

The relatively high gas volumes required by ASE instruments make cylinder supply inappropriate for such applications. A constant, uninterrupted gas supply eliminates interruptions of analyses to change cylinders.

> Improve economy

Quick return on investment < 1 year.
No gas cylinder rental bottles, no price inflation.
The 2-stage pressure design allows the two compressors to work at their optimum pressure range which is reducing the stress on the compressors and as result extending the life time of the compressors - which is a considerable saving.

> Improve safety

Nitrogen produced at low pressure and ambient temperature removes the hazards associated with high pressure cylinders and liquid Dewar's.

STANDARD FEATURES

The ASE instruments need Air (or Nitrogen) for pneumatic system regulated at 6.8 bar (100 psi) and Nitrogen for the extraction cells regulated at 10.3 bar (150 psi).

The features of the N2 high pressure generator :

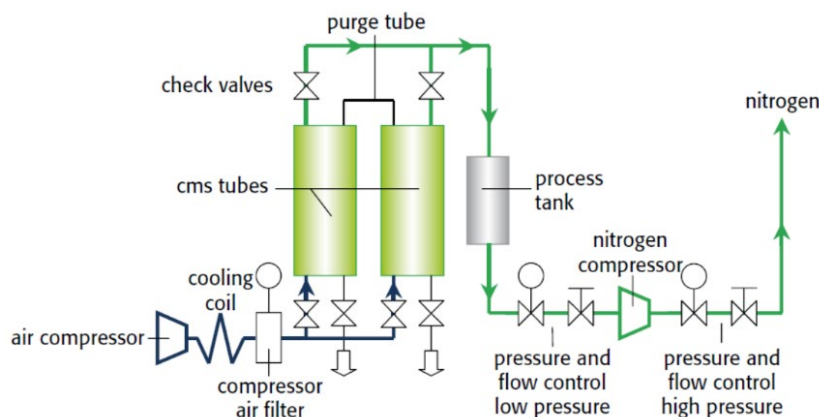
- N2 flow : 30 L/min, @ 99.5% purity
- N2 pressure : 11 bar (159 psi)
- Built in with air compressor : fully secure supply
- Quiet thanks to the Soundproofed compressor box and anti-vibration features
- Compact design : can be fit under the bench
- Compressor over temperature alarm
- Auto start
- Audible and alarm display with help menu
- Visual maintenance indication with alarm
- Energy saving Mode : Enables the compressor to switch off when N2 supply is not required with external N2 tank
- Unique engineered air treatment and compressor management : guarantees better lifetime for all vital components such as compressors

The Nitrogen generator use pressure swing adsorption technology (PSA) combined with a pressure management in two steps to produce pure nitrogen gas.

This technique uses a bed of carbon molecular sieve (CMS) to selectively remove oxygen and other contaminants from atmospheric air. The bed alternates between purification and regeneration modes to ensure continuous nitrogen production.

The pure N₂ collected is then boosted by a second compressor (stage 2) from 3 bar (43 psi) to 11 bar (159 psi), which is the outlet pressure specification.

This unique engineered air treatment- and compressor management guarantees a long lifetime for all vital components such as the air compressors.



Model	Eurus HP-ASE
Nitrogen Flowrate	Max. 30 L/min
Nitrogen outlet pressure (max)	11 bar (159 psi)
Purity	> 99.5 %
Indicator lights	Power ON, System OK, System error
Hours run meter	Yes
Max. ambient operating temperature	10 - 30°C (50 - 86°F)
Integrated air compressor	Yes
Noise level	< 55 dB
Electrical requirements	230V / 1820W
Connexion	1/4 NPT
Dimensions (H x W x D)	78 x 51 x 83 cm (31" x 20 x 33")
Weight (kg/lbs)	~ 125 / ~ 275.5

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The products are guaranteed 12 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.

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