

# ZEPHYR

## Nitrogen Gas Generator for CD

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



### Description

The ZEPHYR Nitrogen provides nitrogen solution for Circular Dichroism Spectrometer.

The ZEPHYR is built-in 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, outlet pressure, N<sub>2</sub> 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

CIRCULAR DICHROISM

### 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 compressor guarantees continuous gas supply, independent of in house compressed air supply.

#### SIMPLE INSTALLATION

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

### Standard Features

- Fully regenerative PSA technology
- HMI touch screen technology to display the process in real time, including process variables
- Integral oil free compressor: fully secure supply
- 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 Mode: Enables the compressor to switch off when nitrogen supply is not required
- Remote PC monitoring via USB port
- Fit with wheels

#### ENERGY SAVING MODE

The generator has a real-time calendar and clock which can be easily updated no matter where you are in the World. By using the Auto-Run function you can select when the generator runs giving you complete control of your gas supply and saving energy.

Example: If your laboratory working hours is 8am to 6pm, set the generator to start at 5am to ensure you have high quality gas at 8am and have it switch off at 7pm, reducing running time and energy by some 55%.

N<sub>2</sub>

MODELS	ZEPHYR.20
Compressor	1 (With)
GENERAL INFORMATION	
Nitrogen Flow rate	Up to 20 L/min
Nitrogen pressure	7 bar (101 psi)
Nitrogen purity*	Up to 99,999% ; N2 dewpoint: -55°C (-67°F)
Particles	0.01 µ
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")
Weight (kg/lbs)	118 / 260
Power consumption	1550 W
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
COMMUNICATION	
USB/PC Control	In series

\* Factory certified purity with respect to O2 content. Actual purity varies in relation to output flow.

**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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