

# ZEPHYR

## Nitrogen Gas Generator

Reference : ZEPHYR.[Flow rate]/0 (Without compressor)  
ZEPHYR.[Flow rate]/1 (With compressor)



### Description

F-DGS's range of laboratory Nitrogen Gas Generators are some of best designed PSA Nitrogen Gas Generators available, to supply a continuous flow of Nitrogen Gas at a predetermined pressure and purity.

The Generator includes internal storage and automatic shut-down on low/no demand of Nitrogen gas. The generator is controlled using the latest in HMI touch screen technology to display the process in real time.



UNIQUE AND INTELLIGENT OPERATOR  
INTERFACE WITH REMOTE ACCESS



### Applications

ICP CIRCULAR EVAPORATION TURBOVAP  
SAMPLE EVAPORATION ATOMIC ABSORPTION  
GC-CARRIER GAS

### 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

- 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%.

N2

MODELS	ZEPHYR.10	ZEPHYR.12	ZEPHYR.20	ZEPHYR.70	
Compressor	1 (With)			0 (Without)	1 (With)
GENERALS INFORMATIONS					
Nitrogen Flow rate	10 L/min	12 L/min	20 L/min	70 L/min	
Nitrogen pressure	7 bar (87 psi)			4 bar (58 psi)	
Nitrogen purity	> 99,9995% (< 5 ppm O2) N2 dewpoint : -55°C (-67°F)	> 99.999% (< 10 ppm O2) N2 dewpoint : -55°C (-67°F)	> 99,99% (< 100 ppm O2) N2 dewpoint : -55°C (-67°F)	> 98% (< 2% O2) N2 dewpoint : -55°C (-67°F)	
Maximum air Inlet Pressure	8.5 bar (123 psi)				
Air Inlet Requirement (units without compressor)	Dewpoint : -40°C (-40°F); Particulate : < 1 micron; Oil : < 0.01 mg/m³				
Temperature range	5 - 25°C (41 - 77°F)				
Dimensions (W x H x D)	66 x 85.2 x 67 cm (26" x 33" x 26")				
Weight (kg/lbs)	192 / 423			142 / 313	192 / 423
Power consumption	2 266 W			150 W	2 266 W
Electrical supply	220 V ac / 1 ph / 50 Hz				
	110 V ac / 1 ph / 50 - 60 Hz				
Current peak	10.3 A				
CONNECTIONS					
Inlet/Outlet connections	G 1/4" (BSP) Female				
COMMUNICATION					
USB/PC Control	In series				

**GoldService**  
— 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)

**GS: TECNOLOGIA APLICADA** 

Certified Product

