

# HiQ® specialty gas generators.

## Nitrogen SIROCCO DS-PSA series.

The SIROCCO high purity nitrogen gas generators works with DS-PSA technique. Including integral oil-free air compressors as standard, the generators deliver a continuous stream of 99.999%+ pure nitrogen gas with a minimal residual oxygen content without the need for secondary purification. Version 3A includes a separate and independent compressed instrument air system. The SIROCCO series of nitrogen gas generators is ideal for operation as nitrogen gas supply for all kind of laboratory and chromatography applications.

SIROCCO DS-PSA nitrogen gas generators use a patented DUAL STEP pressure swing adsorption (DS-PSA) system. Pressure swing adsorption is well known and the DUAL STEP system is a new innovation which is a much more economical and much more efficient technique compared with the traditional standard PSA technique. The DS-PSA system remove oxygen, carbon dioxide and water from compressed air. The resulting stream of high purity nitrogen gas (99.999%) is ideal for laboratory applications including GC carrier gas, make-up gas, and many other applications like ICP etc. Version DS-PSA-N2-3A also produces a 3 l/min flow at a pressure of 5 bar (73 psi) of clean air for other use. The compressed air system includes a filtration and drying system and is completely separated from the N<sub>2</sub> part of the generator.

All SIROCCO DS-PSA gas generators are designed and manufactured within a rigorous ISO9001 quality system.

### Advantages:

- Nitrogen produced at low pressure and ambient temperature removes the need for high pressure cylinders or liquid dewars
- A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required
- Up to 99.999%+ pure nitrogen gas produced as standard. No need for costly downstream secondary filtration
- Integral oil-free air compressor guarantees continuous gas supply, independent of inhouse compressed air supply
- The gas generators can easily be installed in the laboratory

Model	Description	HiQ® code
DS-PSA-N2-3	SIROCCO DS-PSA, 3 l/min, 230V	5979
DS-PSA-N2-3A	SIROCCO DS-PSA, 3 l/min, air, 230V	5980
DS-PSA-N2-5	SIROCCO DS-PSA, 5 l/min, 230V	5981
DS-PSA-N2-3/110	SIROCCO DS-PSA, 3 l/min, 110V	5982
DS-PSA-N2-3A/110	SIROCCO DS-PSA, 3 l/min, air, 110V	5983
DS-PSA-N2-5/110	SIROCCO DS-PSA, 5 l/min, 110V	5984

### Maintenance

DS-PSA-AK	Maintenance kit	5985
DS-PSA-4000K	4000 hours maintenance kit	5986

### Technical data

Max. N <sub>2</sub> flow rate (at 20°C, 1 bar)		
DS-PSA-3	3 l/min	
DS-PSA-5	5 l/min	
Delivery pressure, ±0.5%	5 bar	73 psi
N <sub>2</sub> purity	≥99.999%	
Oxygen content	<10 ppm	
Index of protection	IP2x (acc. IEC 60529, rev 2.1)	
Temperature range	10–40 °C	50–104 °F
Noise level	<60 dB(A)	
Display	Microprocessor controlled graphic display, 128 x 64 pixels	
Power	230V/50Hz	110V/60Hz
Power consumption	820W	
Dimensions (W/D/H)	48/83.5/64 cm 19/33/25.2"	
Weight	110 kg	242.5 lbs

Certification:





HiQ® SIROCCO DS-PSA nitrogen generator.

HiQ® SIROCCO DS-PSA nitrogen generator in principal.

