

NITROSTATION 50RC

ULTRA HIGH PURITY NITROGEN GENERATOR, HC FREE,
WITH ON BOARD COMPRESSOR

SYNSPEC

Shaping a cleaner, safer future. With you.



Description

Synspec supplies the **NITROSTATION50RC** product line of **Ultra High Purity Nitrogen Generator with integrated Air compressor**, to fit almost any type of application which needs independent supply of pure Nitrogen close to the consumer in an elegant 19" casing with full color display and touchpad.

Compressed Air is first filtered from particulates down to 5µm and dried by a static dryer. Based on the field proven Pressure Swing Adsorption (PSA) technology, Nitrogen is extracted from a set of filters filled up with CMS. After the extracting process, N₂ passes throughout a hot catalytic chamber to remove the last traces of organic compounds, is then stored in a buffer and filtered of remaining particulates down to 0.1µm; finally output pressure is regulated electronically to the set value, between 0.5 and 5 bar.

Each instrument is equipped with high performance communication interfaces USB, RS485 & Ethernet to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and intuitive and reliable communications, the **NITROSTATION 50RC** is easy to install, reliable, safe and pleasant to operate.

N₂

APPLICATIONS

- ✓ Makeup gas for GC without organic compound trace
- ✓ Carrier gas for calibrators and gas chromatographs

Benefits

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit. Improves baseline stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of N₂. Does not require any piping. Can be easily moved around the laboratory.
- ✓ Low noise compressor.
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.

Specifications

MODELS	NITRO STATION 50RC-100 with catalyst
N₂ OUTFLOW @ 1013/20°C	NITROSTATION50RC-100 = 100 Nml/min
OUTPUT N₂ PURITY	<ul style="list-style-type: none"> ✓ > 99.999% N₂ ✓ < -60°C dew point ✓ < 10ppm O₂ ✓ particulates <0.1µm ✓ <0.05ppm HC-CH₄ (option)
OUTPUT N₂ PRESSURE	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
COMPRESSED AIR	Supplied by internal oil free compressor
MANUAL CONTROL	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
REMOTE CONTROL	<ul style="list-style-type: none"> ✓ Through 2 potential free relay contacts (I/O), ✓ USB. RS485 (Mod-Bus) or Display ✓ Trough Ethernet 10/100 network ✓ Log book download by USB
SOUND PRESSURE	< 59 dB(A), measured at 1m
AMBIENT TEMPERATURE	+10 to +35°C
OUTPUT FITTING	Stainless steel 1/8" compression
POWER SUPPLY	From 90VAC to 260VAC, 47 to 63 Hz
POWER CONSUMPTION	NITROSTATION50RC: maximum 750W
DIMENSIONS	W=483mm/19ins, H=132mm/5.2ins (3U), D=520mm/21ins
WEIGHT (NET)	NITROSTATION50RC-100 : 29Kg
CERTIFICATION	CE

Ordering Numbers

Model	Article #
NITROSTATION50RC—100	8053
NITROSTATION with other capacities	On demand

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