

.red® Nitro-PSA Nitrogen Generator



Product datasheet

Description

Features

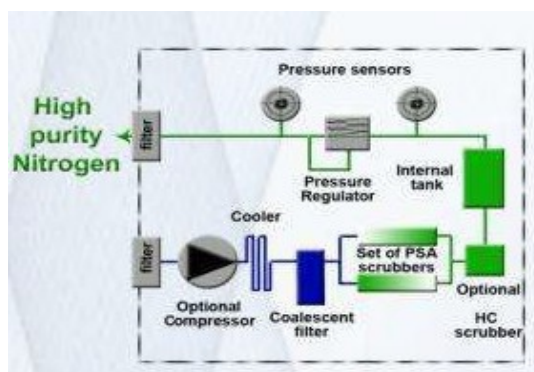
- Mini nitrogen generator delivering >98% - 99.999% pure nitrogen
- ... at a flow rate of from 500mL/min to 4000mL/min
- Purification by well-established pressure swing adsorption (PSA technology)
- Less than 10ppm oxygen in the final product stream
- Safe, small, simple and silent
- A viable, economical alternative to high pressure cylinders
- Uninterrupted supply of constant pressure nitrogen for various applications from the world's smallest high purity nitrogen generator
- Minimum maintenance - simple filter exchange
- Optional internal compressor
- Zero Nitrogen (<0.01 Total Hydrocarbons) optional
- Easy operation and installation
- Manufactured to a high quality following the rigorous ISO 9001 production control



Technical Specifications

Model: Nitro-PSA

Schematic



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General specifications

Power supply (V/Hz):	230V, 50Hz or 115V, 60Hz or 100V, 60Hz as specified
Housing:	Die cast aluminium
Interface:	Touch-pad
Functions (modes):	see Operations Manual
Warranty:	3 years
Display:	LCD

Compressed air supply

Maximum feed pressure (bar, psi):	Where compressor required. 7 bar (100 psig) constant inlet pressure
Minimum feed pressure (bar, psi):	7 bar constant pressure required.
Required air purity:	ISO 8573.1 Class 1.2.1 Dirt, Water, Oil (adsorption dryer), hydrocarbon free ,0.1% (no CH ₄ /methane)
Indicator lights:	Power ON, System OK, System error
Electrical supply:	230V, 50Hz or 115V, 60Hz or 100V, 60Hz as specified, single phase

Ambient conditions

Temperature:	10 to 40°C, 50 to 104°F
Noise level:	Less than 48dB(A)

Dimensions and connections:

Dimensions (HxWxD) (cm):	30x35x40cm Without compressor 67x36x64cm With compressor
Net Weight (Kg):	16Kg – 50Kg depending on options
Connections inlet:	G1/4"
Connections outlet:	G1/4"

Output

	Nitro-PSA-500	Nitro-PSA-750	Nitro-PSA-1300	Nitro-PSA-4000
Pressure	5 barg	5 barg	5 barg	5 barg
Flow (max)	500mL/min	750mL/min	1300mL/min	4000mL/min
Purity	99.999%	99.999%	99.995%	98%

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Parts supplied

Standard: 1 x dot-red Nitro-PSA unit, 1 x manual, 1 x power cable
Supplied: Singly

Instrument Options

Buffer Tanks: Buffer volume - either 7L (cat. no. 473103002), 15L (cat. no. 473103004) or 50L (cat. no. 473103006)
Zero Nitrogen Option: <0.1ppm Total Hydrocarbons possible with optional CH4 scrubber. Ordered with instrument (cat. no. CH4SCRUBPSA)

Servicing

Action & frequency: Replace filter elements every 4,000 hours. Service the external compressor as determined by the manufacturer.
Service items(s): Service kit Nitro-PSA filters (Cat no. 6711 02 220)
Replacement Catalyst oven Nitro-PSA (cat no 5735 00 182.1 / 230v OR 5735 00 182.2 / 115-100v)

Ordering Information

Code	Description	Model
701100	Nitrogen generator Nitro-PSA-500-C 230V	Nitro-PSA-500-C
701101	Nitrogen generator Nitro-PSA-500-NC 230V	Nitro-PSA-500-NC
701102	Nitrogen generator Nitro-PSA-500-C 115V	Nitro-PSA-500-C
701103	Nitrogen generator Nitro-PSA-500-NC 115V	Nitro-PSA-500-NC
701104	Nitrogen generator Nitro-PSA-500-C 100V	Nitro-PSA-500-C
701105	Nitrogen generator Nitro-PSA-500-NC 100V	Nitro-PSA-500-NC
701106	Nitrogen generator Nitro-PSA-750-C 230V	Nitro-PSA-750-C
701107	Nitrogen generator Nitro-PSA-750-NC 230V	Nitro-PSA-750-NC
701108	Nitrogen generator Nitro-PSA-750-C 115V	Nitro-PSA-750-C
701109	Nitrogen generator Nitro-PSA-750-NC 115V	Nitro-PSA-750-NC
701110	Nitrogen generator Nitro-PSA-750-C 100V	Nitro-PSA-750-C
701111	Nitrogen generator Nitro-PSA-750-NC 100V	Nitro-PSA-750-NC
701112	Nitrogen generator Nitro-PSA-1300-C 230V	Nitro-PSA-1300-C
701113	Nitrogen generator Nitro-PSA-1300-NC 230V	Nitro-PSA-1300-NC
701114	Nitrogen generator Nitro-PSA-1300-C 115V	Nitro-PSA-1300-C
701115	Nitrogen generator Nitro-PSA-1300-NC 115V	Nitro-PSA-1300-NC
701116	Nitrogen generator Nitro-PSA-1300-C 100V	Nitro-PSA-1300-C
701117	Nitrogen generator Nitro-PSA-1300-NC 100V	Nitro-PSA-1300-NC
701118	Nitrogen generator Nitro-PSA-4000-C 230V	Nitro-PSA-4000-C
701119	Nitrogen generator Nitro-PSA-4000-NC 230V	Nitro-PSA-4000-NC
701120	Nitrogen generator Nitro-PSA-4000-C 115V	Nitro-PSA-4000-C
701121	Nitrogen generator Nitro-PSA-4000-NC 115V	Nitro-PSA-4000-NC
701122	Nitrogen generator Nitro-PSA-4000-C 100V	Nitro-PSA-4000-C