

# NITROSource Compact PSA Nitrogen Gas Generator

Advanced technology nitrogen gas generator for industry leading performance; a source of increased productivity, sustainability and profitability.

With unique design the market leading NITROSource Compact nitrogen gas generator requires less compressed air to generate more nitrogen.

Together with substantially lower servicing costs, reduced downtime and a longer working life, it adds up to the most cost-efficient nitrogen supply available; significantly more affordable than traditional sources, and delivering huge savings over the lifetime of the generator.

With over 20 years experience in the market, and over 50,000 units installed globally, Parker is first choice for innovative and reliable gas generation technology.



## Features and Benefits:

- **Lower cost maintenance, extensive working life**  
The Carbon Molecular Sieve, the 'engine' of the generator delivers nitrogen more efficiently, leading to a very long working life – and major savings on maintenance.
- **Five year warranty**  
Free through Parker extended warranty, offering the assurance of no unexpected maintenance costs and maximized factory up-time.\*
- **Industry compliance**  
Food and pharmaceutical safe, in line with European statute (EIGA) and the USA Food & Drugs Administration (FDA Article 21) and Pharmacopeia compliance.
- **Gas quality control**
  - **Mass Flow Controller** - ensuring correct set pressure and flow
  - **Integral Oxygen Analyzer (Optional)** - constantly measures gas purity
  - **Off-Gas-By-Pass** - automatically vents off out-of-specification gas ensuring product quality by ensuring gas quality
  - **Outlet pressure regulation** to ensure correct pressure to the application
  - **Electronic Control System** - 100% management of all critical generator functions
- **Remote monitoring**  
Enabling connection to proprietary remote management and the generator control systems to control and track gas parameters from a central location.



## Flowrate

Model	Units	10PPM	100PPM	0.1%	0.5%	1%	2%	3%	4%	5%
N2C-2	m³/hr	0.81	1.54	2.48	3.69	4.39	6.11	7.73	9.13	10.29
	cfm	0.5	0.9	1.5	2.2	2.6	3.6	4.5	5.4	6.1
N2C-4	m³/hr	1.73	2.94	4.96	7.58	9.12	12.95	15.89	18.38	20.57
	cfm	1.0	1.7	2.9	4.5	5.4	7.6	9.4	10.8	12.1
N2C-6	m³/hr	2.41	4.46	7.59	11.06	13.32	18.64	22.68	26.06	29.04
	cfm	1.4	2.6	4.5	6.5	7.8	11.0	13.3	15.3	17.1
N2C-8	m³/hr	3.38	5.89	10.24	14.86	18.01	24.02	29.33	33.93	37.81
	cfm	2.0	3.5	6.0	8.7	10.6	14.1	17.3	20.0	22.3

Stated flows are for operation at 100 psi g (7 bar g / 0.7 MPa g) with reference to 77°F (25 °C)

## Inlet Parameters

Inlet Air Quality	ISO 8573-1: 2010 Class 2.2.2 (2.2.1 with high oil vapour content)
Inlet Air Pressure Range	87 - 145 psi g (6 - 10 bar g)

## Electrical Parameters

Generator Supply	100 - 240 +/- 10% Vac 50/60Hz
Generator Power	55 W
Fuse	3.15 A (Anti Surge (T), 250v, 5 x 20mm HBC, Breaking Capacity 1500A @ 250v, IEC 60127, UL R/C Fuse)

## Environmental Parameters

Ambient Temperature	5 - 50°C (41 - 122°F)
Humidity	50% @ 104°F (80% MAX @ 88°F) (50% @ 40°C (80% @ MAX @ 31°C))
IP Rating	IP20 / NEMA 1
Pollution Degree	2
Installation Category	II
Altitude	< 2000 m (6562 ft)
Noise	<80 dB (A)

## Port Connections

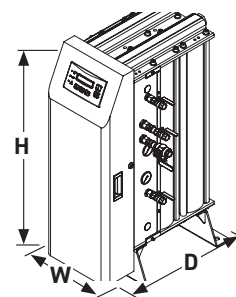
Air Inlet	1/2"
N2 Outlet to Buffer	1/2"
N2 Inlet from Buffer	1/2"
N2 Outlet	1/2"

## Preventative Maintenance Kits

Part Number	Description / Service Interval	Contents
606280162	12 Month MIST-X Silencer Kit (Every 12 Months)	MIST-X 150 Silencer
P010AO	12 Month Filter Element Kit (Every 12 Months)	P001AO Dust Filter Element
M24.PPM.0002	24 Month PPM Service Kit (Every 24 Months)	PPM Cell c/w Wiring
M24.PCT.0002	24 Month Percentage Service Kit (Every 24 Months)	% Cell c/w Wiring
606510003	24 Month Valve Overhaul Kit - Generator With Analyzer (Every 24 Months)	Air Inlet Valves (x2) Exhaust Valves (x2) Outlet Valves (x2)
606510005	24 Month Valve Overhaul Kit - Generator Without Analyzer (Every 24 Months)	Air Inlet Valves (x2) Exhaust Valves (x2) Outlet Valve

## Weights and Dimensions

Model	Unpacked								Packed							
	Height (H)		Width (W)		Depth (D)		Weight		Height		Width		Depth		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs	mm	ins	mm	ins	mm	ins	kg	lbs
N2C-2	1034	41	450	18	471	19	98	216	1490	59	612	24	950	38	174	383
N2C-4					640	26	145	320							221	487
N2C-6					809	33	196	432							272	597
N2C-8					977	38	249	549							303	668



Parker has a continuous policy of product development and although the company reserves the right to changes specifications, it attempts to keep customers informed of any alterations.

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