

# 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 | m <sup>3</sup> /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 | m <sup>3</sup> /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 | m <sup>3</sup> /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 | m <sup>3</sup> /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<br>(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<br>HBC, Breaking Capacity 1500A @ 250v,<br>IEC 60127, UL R/C Fuse) |

## Environmental Parameters

|                       |   |
|-----------------------|---|
| Ambient Temperature   | 5 - 50°C (41 - 122°F)   |
| Humidity              | 50% @ 104°F (80% MAX @ 88°F)<br>(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

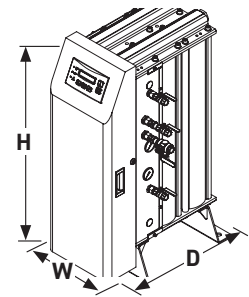
|                      |      |
|----------------------|------|
| Air Inlet            | 1/2" |
| N2 Outlet to Buffer  | 1/2" |
| N2 Inlet from Buffer | 1/2" |
| N2 Outlet            | 1/2" |

## 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 -<br>Generator With Analyzer (Every 24 Months)    | Air Inlet Valves (x2)<br>Exhaust Valves (x2)<br>Outlet Valves (x2) |
| 606510005    | 24 Month Valve Overhaul Kit -<br>Generator Without Analyzer (Every 24 Months) | Air Inlet Valves (x2)<br>Exhaust Valves (x2)<br>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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