



Engineering the Future

**WORLD CLASS, ENERGY-SAVING  
EFFICIENT RELIABLE & SILENT**

# KAISHAN NITRO-GEN

## HIGH PERFORMANCE NITROGEN GAS GENERATION

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

3.5 - 155 m<sup>3</sup>/hr



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# NITRO-GEN<sup>®</sup>

## HIGH PERFORMANCE NITROGEN GAS GENERATION

### UNIQUE DESIGN AND ADVANCED ENERGY SAVING TECHNOLOGY

The market leading NITRO-GEN gas generator requires less compressed air to generate more nitrogen. Together with substantially lower servicing costs, reduced downtime and longer working life, it adds up to the most cost efficient nitrogen supply available.

NITRO-GEN is significantly more affordable than traditional sources and delivers huge savings over the lifetime of the generator.

With over 50,000 units installed globally, it is the first choice for innovative and reliable gas production.

#### Features and Benefits:

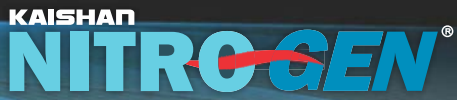
- **Energy saving technology**  
Matches compressed air flow to the nitrogen outlet flow and purity reducing compressed air use, saving energy and money.
- **Lower cost maintenance, extended working life**  
The carbon molecular sieve, the engine of the generator delivers nitrogen more efficiently, leading to a very long working life with major savings on maintenance.
- **Five year warranty**  
Our extended warranty provides assurance of no unexpected maintenance costs and increased factory production time.
- **Industry compliance**  
Food and pharmaceutically safe in line with global regulations and requirements.



- **Gas quality control**
  - **Mass flow controller** ensures correct set pressure and flow.
  - **Integral oxygen analyser** constantly measures gas purity
  - **Off gas bypass** automatically vents out of specification gas to ensure product quality by gas quality.
  - **Inlet and outlet pressure regulation** prevents damage to the generator or application.
  - **Electronic control system** provides 100% management of critical generator functions.
- **Remote monitoring**  
Enables connection to proprietary remote management and generator control systems to regulate and track parameters from a central location.
- **Easily up gradable supply**  
Simple to add generators as the application demand requires.



NITRO-GEN Gas Generators are marketed throughout Australasia by Kaishan



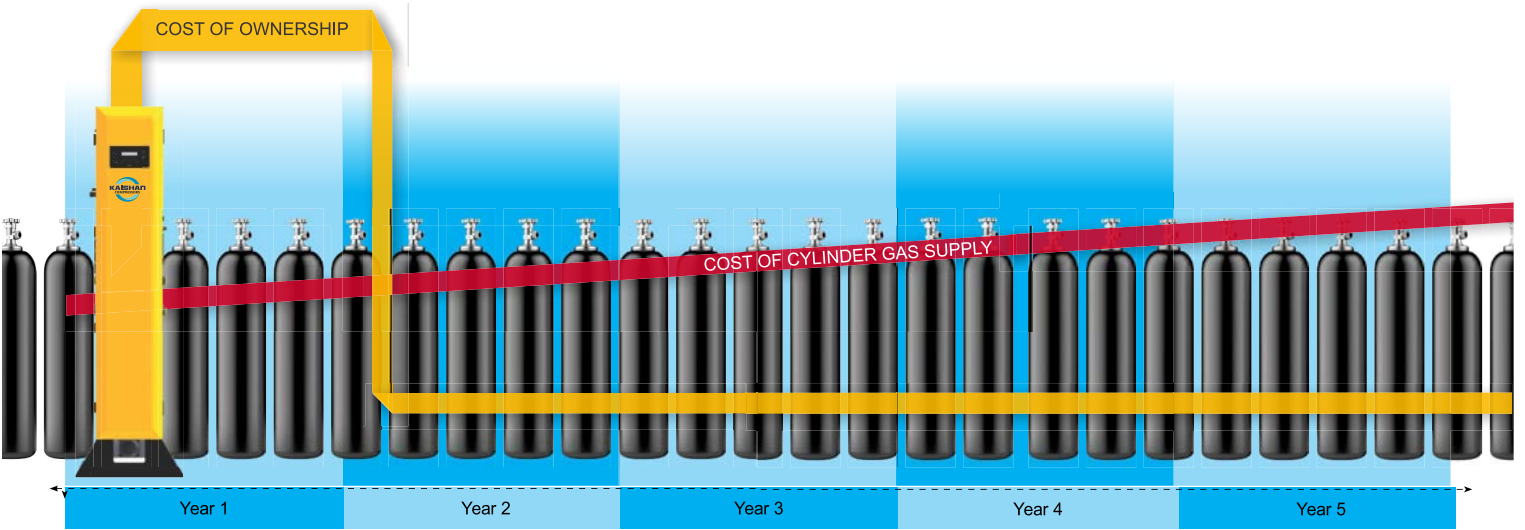
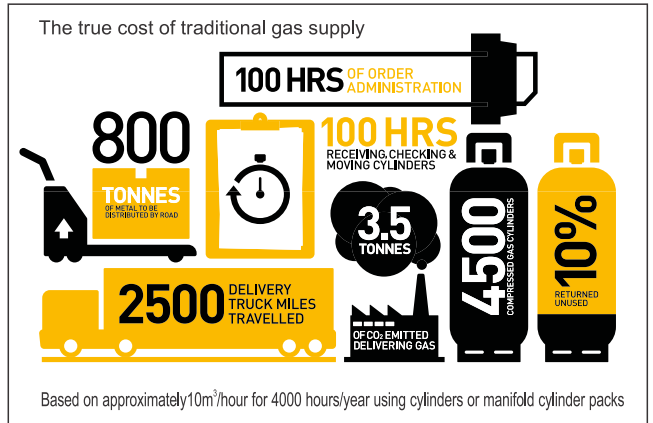
# HIGH PERFORMANCE NITROGEN GAS GENERATION



## The profitability generator

### The most economical source of nitrogen

With traditional methods of gas supply, users are liable for 'hidden extra costs such as cylinder rental, delivery and administration charges on top of the headline gas price. In addition, liquid 'boil-off' vents expensive gas into the atmosphere, and approximately 10% of the gas in every cylinder is typically returned to the supplier unused. So when the true costs are accounted for, gas generation with NITRO-GEN is the most economical source of nitrogen – making a positive contribution to the bottom line.



### The tipping point

With NITRO-GEN you can expect payback within six to 24 months\* (depending on agreed gas delivery 'terms' and consumption). So after the initial investment, NITRO-GEN costs reduce dramatically, while the costs of traditional methods continue to grow year on year.

### Energy saving

Packed with advanced energy-efficient technology, NITRO-GEN consumes less compressed air and energy than traditional generators – delivering substantial cost savings as well as greater sustainability in the long run.

### Lowest cost maintenance and parts

Built around an advanced, high efficiency, and very long life Carbon Molecular Sieve, NITRO-GEN requires a fraction of the maintenance and expensive replacement parts demanded by other gas generators – representing decisive cost-savings over the lifetime of the product.



### Product Selection

Performance data is based on 7 bar g air inlet pressure and 20°C - 25°C ambient temperature. Consult Parker for performance under specific conditions.

Model	Nitrogen flow rates (m <sup>3</sup> /hr) vs Purity (oxygen content)													
	5ppm	10ppm	50ppm	100ppm	250ppm	500ppm	0.10%	0.40%	0.50%	1%	2%	3%	4%	5%
N2-20P	3.5	4.5	6.7	8.0	9.7	11.1	12.4	16.7	17.7	21.3	25.3	29.8	30.9	33.7
N2-25P	5.3	6.8	10.1	12.0	14.6	16.7	18.6	25.1	26.6	32.0	38.0	44.7	46.4	50.6
N2-35P	7.0	9.0	13.4	16.0	19.4	22.2	24.8	33.4	35.4	42.6	50.6	59.6	61.8	67.4
N2-45P	8.8	11.3	16.8	20.0	24.3	27.8	31.0	41.8	44.3	53.3	63.3	74.5	77.3	84.3
N2-55P	10.5	13.5	20.1	24.0	29.1	33.3	37.2	50.1	53.1	63.9	75.9	89.4	92.7	101.1
N2-60P	11.6	15.0	22.3	26.6	32.3	36.9	41.2	55.5	58.9	70.8	84.1	99.1	102.7	112.1
N2-65P	13.3	17.1	25.5	30.4	36.9	42.2	47.1	63.5	67.3	80.9	96.1	113.2	117.4	128.1
N2-75P	14.5	18.6	27.7	33.1	40.2	46.0	51.3	69.1	73.3	88.2	104.7	123.4	127.9	139.5
N2-80P	16.1	20.7	30.8	36.8	44.6	51.1	57.0	76.8	81.4	98.0	116.4	137.1	142.1	155.0

m<sup>3</sup> reference standard 20°C, 1013 millibar(a), 0% relative water vapour pressure.

### 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	5-13 bar g

### Environmental Parameters

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

### 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)

### Port Connections

Air Inlet	G1
N2 Outlet to Buffer	G1
N2 Inlet from Buffer	G1/2
N2 Outlet	G1/2

### Weights and Dimensions

Model	Height (mm)	Width (mm)	Depth (mm)	Weight (Kg)
N2-20P	1894	550	881	299
N2-25P			1050	384
N2-35P			1219	469
N2-45P			1388	553
N2-55P			1557	638
N2-60P			1726	722
N2-65P			1895	807
N2-75P			2064	892
N2-80P			2233	976

### Packed Weights and Dimensions

Model	Height (mm)	Width (mm)	Depth (mm)	Weight (Kg)
N2-20P	729	2000	1090	398.4
N2-25P			1260	495.4
N2-35P			1430	580.4
N2-45P			1600	686.4
N2-55P	832	2000	1770	782.4
N2-60P			1935	897.4
N2-65P			2100	997.4
N2-75P			2275	1093.4
N2-80P			2445	1186.4



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