

Atlas Copco

PSA Nitrogen Generators

NGP Series (capacity 1 - 300 l/s; flow 4 - 1100 Nm³/h; purity 95% - 99.999%)



Atlas Copco's new nitrogen generator uses Pressure Swing Adsorption technology to isolate nitrogen molecules from other molecules in compressed air. Oxygen, CO₂, water vapor and other gasses are adsorbed. The result is virtually pure nitrogen at the outlet of the generator. The NGP series are a very cost-efficient source of nitrogen used in various industries like food and beverage, metal processing, electronics, and many others.

Features and Benefits

Ready to Use

- Only requires a supply of dry compressed air
- Plug-and-play
- No specialist installation or commissioning
- Fully automated and monitored including oxygen sensor as standard
- Performance guaranteed independent from temperature

Cost Savings

- Low installation and running cost – highly efficient technology
- No additional costs such as order processing, refills and delivery charges
- Virtually service free
- Quick pay back – often less than a year

Exceptional Convenience

- Continuous availability (24 hours a day, 7 days a week)
- Risk of production breakdown due to gas running out is eliminated

Desired Purity

- Nitrogen supply according to your need: from 95% to 99.999%
- Very easy to set up the device for other purity levels

High Flow Capacity

- The wide product range and nitrogen flows up to 1100 Nm³/h make the new NGP series ideal for applications such as food processing, pharmaceutical, metal industry, oil & gas, marine, packaging and many more

Technical Specifications

99.50%	Nitrogen capacity*			Air consumption		
	l/s	cfm	Nm ³ /h	l/s	cfm	Nm ³ /h
NGP 4	1.1	2.4	4.0	4.0	8.5	14.40
NGP 9	2.5	5.3	9.0	8.3	17.7	30.00
NGP 11	3.1	6.5	11.0	10.0	21.2	36.00
NGP 15	4.2	8.8	15.0	15.0	31.8	54.00
NGP 21	5.8	12.4	21.0	20.0	42.4	72.00
NGP 30	8.3	17.7	30.0	28.3	60.0	102.00
NGP 40	11.1	23.5	40.0	39.2	83.0	141.00
NGP 47	13.1	27.7	47.0	43.0	91.1	154.80
NGP 62	17.2	36.5	62.0	52.5	111.2	189.00
NGP 73	20.3	43.0	73.0	60.0	127.1	216.00
NGP 92	25.6	54.1	92.0	90.0	190.7	324.00
NGP 112	31.1	65.9	112.0	106.7	226.0	384.00
NGP 185	51.4	108.9	185.0	165.0	349.6	594.00
NGP 250	69.4	147.1	250.0	226.9	480.8	817.00
NGP 420	116.7	247.2	420.0	396.7	840.5	1428.00
NGP 550	151.4	320.8	545.0	510.0	1080.6	1836.00
NGP 900	250.0	529.7	900.0	800.0	1695.0	2880.00
NGP 1100	305.6	647.4	1100.0	1066.7	2260.1	3840.00

* Performance +/- 5%.

Reference conditions:

Ambient temperature 20°C
 Ambient pressure 1013 mbar
 Unit inlet temperature 20°C
 Inlet pressure 7.5 bar(g)
 Unit outlet nitrogen purity 99.50%
 Compressed air inlet quality ISO8573-1 class 1-4-1

Outputs

Maximum compressed air inlet temperature 45°C
 Maximum ambient temperature 45°C
 Minimum compressed air inlet temperature 5°C
 Minimum ambient temperature 0°C
 Minimum compressed air inlet pressure 4 bar(g)
 Maximum compressed air inlet pressure 10 bar(g)
 Minimum nitrogen purity 95%
 Maximum nitrogen purity 99.999%

