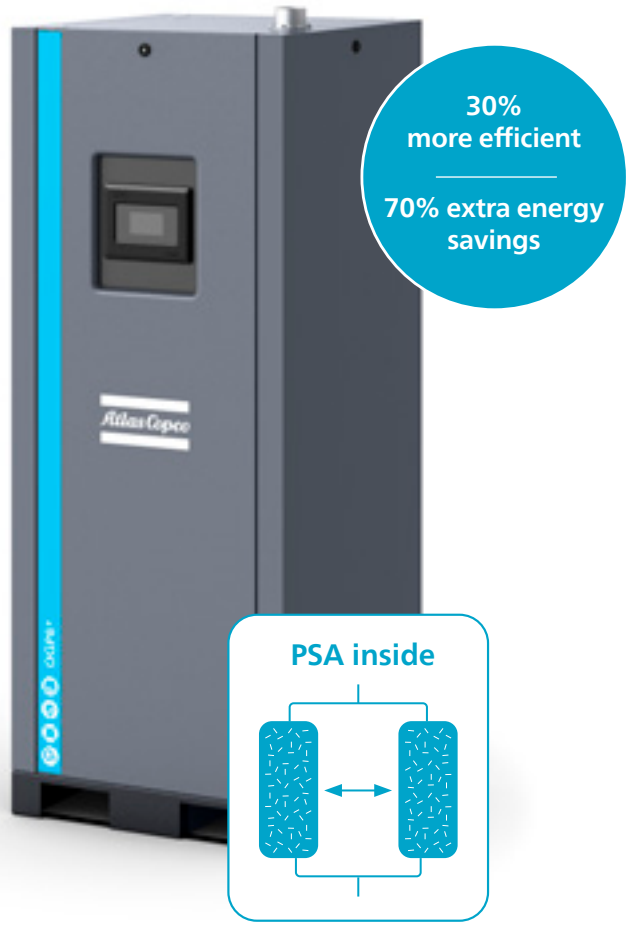
Oxygen generators PSA technology

OGP+ 3-30



On-site oxygen generation with best-in-class benefits

Generating your own oxygen instead of buying it, is a smart idea. Choosing an Atlas Copco OGP+ is even smarter. Thanks to its revolutionary engineering, the OGP+ delivers oxygen generation performance and efficiency unrivalled on the market. The plug-and-play OGP+ allows you to choose the correct purity level for your application with the touch of a button. As a result, you enjoy the freedom, continuity and reliability of on-site generation at a much lower cost per unit of O_2.

Cost savings

- 30% less feed air required than a traditional gas generator.
- Variable Cycle Saver ensures up to 70% additional energy savings during low demand.
- Thanks to its feed air efficiency and best-in-class ZMS utilization, the OGP+ delivers double-digit reductions in the total cost per unit of oxygen.

Hands-off performance

- Easy oxygen purity selection via the controller for maximum operational savings.
- 24/7 monitoring and automatic adjustment of the O_2 purity protect your application.
- Continuous monitoring and automatic adjustment of the feed air safeguard the integrity of the adsorbent media.

Reliability

- Continuous supply of oxygen at guaranteed purity.
- Every component in contact with oxygen is cleaned for O_2 service.
- Can be combined with a cylinder or bulk gas supply system.

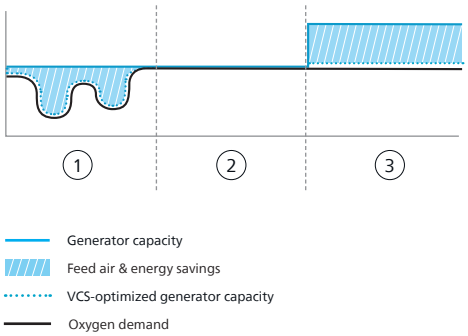
Advanced features, superior benefits

- Complete machine with O_2 sensor, digital flow meter, and pressure regulator included as standard.
- Small footprint thanks to:
  - Best-in-class usage of zeolite molecular sieve (ZMS) adsorbent material.
  - Intelligent-design and approval-friendly aluminum extrusions.
- Advanced controller with large HD color touchscreen offers easy gas purity selection, purity alerts, and connectivity options.
- Automatic start-up allows for plug-and-play installation.
- Feed air monitoring and interception.
- Oxygen purity monitoring and interception. The zirconia oxygen sensor's long lifetime reduces service intervention needs and costs.

Variable Cycle Saver

Enjoy 70% extra energy savings

Most users don't need to utilize the maximum capacity of their oxygen generator all the time. Our in-house developed Variable Cycle Saver (VCS) eliminates energy waste during lower demand and in colder temperatures, giving you up to 70% additional energy savings.



1. Low load: When there is less demand for O_2, VCS optimizes the PSA cycle to reduce the generator capacity and thus the feed air consumption to what is needed to generate the lower volume.
2. Full load: The generator is sized for reliable production at full load in hot temperatures (if applicable). In these conditions, VCS is not needed.
3. Seasonal efficiency: At full load in cold conditions, an oxygen generator works more efficiently, increasing its capacity. Here, the VCS of the OGP+ will also kick in to reduce feed air and energy costs.

Technical specifications

Type		Oxygen FOD			Dimensions (W x D x H)		Weight	
		90%	93%	95%	mm	in	kg	lbs
OGP 3+	FOD Nm³/h	3.3	3.0	2.5	796 x 840 x 2015	31 x 33 x 79	318	701
	FOD Scfm	1.9	1.8	1.5				
OGP 6+	FOD Nm³/h	6.6	6.0	5.1	796 x 840 x 2015	31 x 33 x 79	400	882
	FOD Scfm	3.9	3.6	3.0				
OGP 9+	FOD Nm³/h	10.0	9.4	8.3	1421 x 840 x 2015	56 x 33 x 79	624	1376
	FOD Scfm	5.9	5.5	4.9				
OGP 12+	FOD Nm³/h	13.3	12.5	11.1	1421 x 840 x 2015	56 x 33 x 79	706	1556
	FOD Scfm	7.8	7.4	6.5				
OGP 15+	FOD Nm³/h	16.6	15.7	13.9	1421 x 840 x 2015	56 x 33 x 79	788	1737
	FOD Scfm	9.8	9.2	8.2				
OGP 18+	FOD Nm³/h	19.7	18.1	15.2	1421x 970 x 2015	56 x 38 x 79	970	2138
	FOD Scfm	11.6	10.7	8.9				
OGP 24+	FOD Nm³/h	26.3	24.1	20.3	1421 x 970 x 2015	56 x 38 x 79	1134	2500
	FOD Scfm	15.5	14.2	11.9				
OGP 30+	FOD Nm³/h	32.9	30.2	25.3	1421 x 970 x 2015	56 x 38 x 79	1298	2862
	FOD Scfm	19.3	17.8	14.9				

FOD: Free Oxygen Delivery
Reference conditions:

- Compressed air effective inlet pressure: 6 bar(g)/87 psi(g)
- Ambient air temperature: 20°C/68°F
- Inlet air quality [1:4:1] according to ISO 8573-1:2010
- Outlet oxygen quality [1:2:1] according to ISO 8573-1:2010

Options

- Low ambient temperature settings (-10°C/14°F)
- Oxygen quality (PDP) monitoring
- Room oxygen alarm (wall mount)

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Atlas Copco

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