

Atlas Copco

Medical Oxygen Plant

Oxyplant Series (3.4-84 Nm³/h)



Sustainable Productivity

Atlas Copco

Medical Oxygen Plant: A reliable source of medical oxygen

Medical oxygen is an irreplaceable requirement for many basic medical procedures and treatments, and an invaluable supplement to many other treatments. It is one of the drugs medical facilities cannot be without. Cylinder Oxygen is bulky, which makes transportation difficult and even dangerous. Oxygen in liquid form is both voluminous and has very limited storage life.

A solution of these inconveniences is to produce oxygen on site using Atlas Copco's new Medical Oxygen Plant (Oxyplant). A key element of Oxyplant is our PSA module which separates the oxygen from ambient air and allows the facility to have a stand alone oxygen production capability right on the facility site.

Key Features

- Typical Medical Oxygen Plant consisting of two independent oxygen generation lines, bank of cylinders and high pressure booster
- Plant setup according to ISO10083 Figure A.5
- Oxygen quality according to European Pharmacopeia Oxygen 93%

Customer Benefits

- Modules are individually controlled and monitored for simplex or duplex PSA arrangements
- Modules can be operated at ideal pressure for oxygen production without affecting the delivery pressure
- Graphic display to control all performance parameters including oxygen quality
- Noise is minimized and the safety of workers can be protected against nitrogen exhaust emissions
- Standard installed oxygen analyzers continuously monitor oxygen quality, giving you peace of mind
- Offering (multiple) backup supply in case of a failure in individual functional components
- One-stop-shop for medical solutions. We manufacture all main components ourselves (compressors, dryers, filters and PSA generators)





Technical specifications Oxyplant 4—84

TYPE	Capacity [Nm ³ /h]	Compressor	Dryer	Air buffer vessel	Oxygen generator	Oxygen buffer	High pressure booster	Filling station
Oxyplant 4	3,4	GA5	FX6	150L	OGP4	150L	2-stage, up to 3,2Nm ³ /h	4 outlets
Oxyplant 6	5,5	GA7	FX7	150L	OGP6	150L	2-stage, up to 3,2Nm ³ /h	4 outlets
Oxyplant 8	7,2	GA11	FX9	280L	OGP8	280L	3-stage, up to 7,2Nm ³ /h	4 outlets
Oxyplant 10	8,8	GA11+	FX10	500L	OGP10	500L	3-stage, up to 8,8Nm ³ /h	4 outlets
Oxyplant 14	13,2	GA15+	FX11	500L	OGP14	500L	3-stage, up to 13,2Nm ³ /h	4 outlets
Oxyplant 18	18	GA18+	FX12	500L	OGP18	500L	4-stage, up to 18Nm ³ /h	6 outlets
Oxyplant 20	19	GA22+	FX15	1000L	OGP20	1000L	4-stage, up to 19Nm ³ /h	6 outlets
Oxyplant 29	27,1	GA30+	FX16	1000L	OGP29	1000L	4-stage, up to 27Nm ³ /h	10 outlets
Oxyplant 45	42	GA45+	FX18	2000L	OGP45	2000L	4-stage, up to 27Nm ³ /h	10 outlets
Oxyplant 55	51	GA55	FX18	2000L	OGP55	2000L	4-stage, up to 27Nm ³ /h	10 outlets
Oxyplant 65	63	GA75	FX19.5	2000L	OGP65	2000L	4-stage, up to 27Nm ³ /h	10 outlets
Oxyplant 84	78	GA90	FX20	2000L	OGP84	2000L	4-stage, up to 27Nm ³ /h	10 outlets

Specifications:

Unit outlet oxygen purity 93%
4-5 bar(e) outlet pressure
400V 50Hz & 380V 60Hz

Set-up include:

2 compressors
2 refrigerant dryers
2 filter sets (PD/DD/QDT)
2 air buffer vessels
2 oxygen generators,
2 oxygen buffer vessels
2 pressure regulators, sterile filters
1 booster
1 filling station

Oxygen Standards

Atlas Copco Atlas Copco Medical Oxygen Plant is able to produce oxygen compliant with the European Pharmacopeia (EurPh) monograph for Oxygen 93 or the United States Pharmacopeia (USP) monograph for Oxygen 93. Both standards were created explicitly to permit the use of PSA produced oxygen.

	Eur Ph Oxygen 93%	ISO10083	USP Oxygen 93%	Laboratory Assay of Oxyplant
Oxygen	93.0% ± 3	>90.0%	>90.0% <96.0%	90-95%
Carbon monoxide	5 ppm	5 ppm	0.0%	0.11ppm
Carbon dioxide	300 ppm	300 ppm	0.001 %	0.81 ppm
Water	67 ppm	67 ppm	n/s	3 ppm

Compliance

Today's medical arena is more tightly regulated than ever. Atlas Copco's medical oxygen generators are manufactured according to Medical Device—Quality Management System ISO 13485:2003 and ISO 9001. It could be also certified as ISO 10083 compliant.



Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco will deliver the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.



Building on interaction

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.



A committed business partner

With a presence in over 170 countries, we will deliver high-quality customer service anywhere, anytime. Our highly skilled technicians are available 24/7 and are supported by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. We are committed to providing the best possible know-how and technology to help your company produce, grow, and succeed. With Atlas Copco you can rest assured that your superior productivity is our first concern!

