

MODULAR OXYGEN GENERATOR

ARNIKA
—COMPANY—

TRYCOMP[®]
Heavy Duty



Patented
Products

Advanced System in Gas Separation
Oxygen Production Unit



ADVANTAGES OF THE ARNIKA OXYGEN GENERATOR

Produces high-purity oxygen gas from compressed air (purity up to 9332).

Due to its modular design (international patents pending);

- ▶ Creates the most appropriate solution to any capacity of required oxygen gas.
- ▶ Modular design offers you ideal and economical opportunities as oxygen consumption increases.
- ▶ Simply adjust your OKSIPAK system by varying the number of PSA modules by yourself, no other adjustment or additional component is required.
- ▶ Modular design: Decreases energy costs due to ideal capacity utilization, which provides real savings to you.
- ▶ If we express another way, the capacity value does not fall swiftly while purity value increases like in the twin tower design.
- ▶ PSA modules are made from eloxal coated aluminum fins and aluminum cast heads with electrostatic heat coatings; this coupled with their ease of assembly and disassembly, a resistant PLC screen and good valves, they can operate for long periods of time.
- ▶ Inlet pressure of pressured air: 6,5bar(g), Oxygen outlet pressure: 5,5bar(g) [2.Option: 3 Bar(g)]
- ▶ Modular design offers you a compact construction; Ideal for container solutions with this size constancy.
- ▶ The spare parts are the same in the all models where identical components are used for the entire model range. This means, limited spare part management, easy maintenance and services.
- ▶ Same desiccant material and bead diameter use for all models.
- ▶ Modular OKSIPAK is limited with a total of 8 pairs of modules. It possible to operate a total of 3 Modular OKSIPAK systems with 8 module pairs with the same PLC and Oxygen Analyzer.

WHAT IS PSA TECHNOLOGY?

Oxygen generators consist of colons full of CMS (Carbon Molecular Sieve) Material. Under pressure, these colons hold all the materials except Oxygen and Argon noble gas in the air. During pressure application, Nitrogen, CO₂ and water molecules attach to molecular sieve material. This process is known as pressure swing adsorption (PSA).

FIELDS OF APPLICATION

▶ Oxygen gas is used in a variety of industrial applications.

HOSPITALS, LABORATORIES, OXYFUEL TECHNOLOGY, WELDING, BRAZING AND STEEL CUTTING, FISH FARMING, OZONE, WASTE WATER TREATMENT industries are the main sectors.

STANDARD EQUIPMENT

- ▶ Food pack filter kit
- ▶ Medical kit
- ▶ Remote GSM control
- ▶ PC Access with ethernet connection
- ▶ 650W UPS uninterruptable power supply

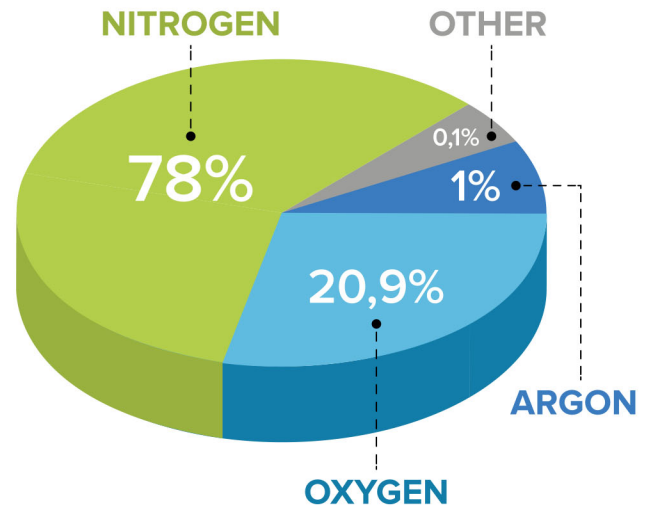
OPTIONAL EQUIPMENT

- ▶ Dew-point analyzer
- ▶ Oxygen analyzer
- ▶ Electronic flow meter
- ▶ Output sterile bacterium filter
- ▶ Pressure and temperature transmitter for air feed

LCD TOUCH DISPLAY CONTROL PANEL PROPERTIES

- ▶ Total work time display
- ▶ Automatic or manual operation
- ▶ Measurement of gas purity constantly or instantly (Optional 30 days purity memory)
- ▶ Adjustable time settings
- ▶ Language (Turkish-English-Spanish)
- ▶ One touch technical service contact details
- ▶ Optional alarm with sound or light on demand
- ▶ Automatic stop control when outlet pressure increases

DRY AIR COMPOSITION





MODULAR OXYGEN GENERATORS TECHNICAL DATA

Model	Weight (Kg)	Dimensions L x D x H (mm)	Content (μm)	Inlet Air Pressure (Barg)	O ₂ Output Pressure (Barg)	Power V/ph/Hz
OKSiPAK 102	306	480x725x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 104	457	480x950x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 106	609	480x1175x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 108	760	480x1400x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 110	912	480x1625x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 112	1063	480x1850x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 114	1214	480x2075x1740	0.01	4	3	110 - 230 / 1 / 50 - 60
OKSiPAK 116	1365	480x2300x1740	0.01	4	3	110 - 230 / 1 / 50 - 60

MINIMUM OXYGEN OUTPUT FLOW WITH COMPRESSED AIR INLET PRESSURE OF 4 BAR (g)

Pin = 4 (BARg)	O ₂ Flow (Nm ³ /h)	Compr. Air Consumption (Nm ³ /h)
MODEL / PURITY	95 %	95 %
OKSiPAK 102	5,85	76,05
OKSiPAK 104	11,7	152,1
OKSiPAK 106	17,55	228,15
OKSiPAK 108	23,4	304,2
OKSiPAK 110	29,25	380
OKSiPAK 112	35,1	456
OKSiPAK 114	40,95	532
OKSiPAK 116	46,8	608

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