

MEDICAL OXYGEN GENERATING SYSTEMS

ERYIGIT®
MEDICAL DEVICES



www.eryigitmed.com



ERYİĞİT[®]
MEDICAL DEVICES



We Produce for Your Health

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ABOUT US

Eryiğit Medical Devices Inc. has been established in 1991 in Ankara Turkey. Our company produces technologies for healthcare sector since its establishment. We produce high-quality and innovative products to meet our customer's needs and serve the healthcare sector in Turkey and worldwide. Our company complies with all international standards and has ISO 9001, ISO 13485, ISO 14001, MDD 93/42/EEC MEDICAL DEVICES CE CERTIFICATE.

We serve the market with direct sales and via dealers and sub-dealers from all around the world. We provide technical service to the hospitals and our sub-dealers via our professionally well-trained engineers and technicians. Our technical service has been certified by the Turkish Standards Institution by EU standards.



Mission Statement

Our mission is to provide solutions to present healthy life to humanity under our statement of technologies for life, taking advantage of cutting-edge advancements in line with the international standards in the healthcare sector.

Vision Statement

Our vision is to be the leading organization addressing the widest community with the best quality solutions and reasonable prices in the healthcare sector.

Core Values

Innovation: We provide unique and effective solutions for the healthcare sector with innovative ideas, new technologies, and R&D investments.

Integrity: We have high moral principles in every stage of our operations valuing our stakeholders.

Care: We care about human life and respect society and the environment.

Passion: Doing our best to be the first choice of our customers is our passion.

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PRODUCTION, SALES AND SERVICE OF MEDICAL DEVICES

Eryigit offers a product portfolio with a wide variety. We produce and market Steam Sterilizers, Low-Temperature Hydrogen Peroxide Gas Plasma Sterilizers, Pharmaceutical Sterilizers, Waste Sterilizers, Washer-Disinfectors, Oxygen Production, and Storage Systems, Operating Tables with the complete range of accessories, Examination Tables, Gynecological and Urological Examination Tables, Delivery Tables, and stainless steel hospital equipment. We also design and install CSSD Units and Water Purification Systems.

OUR PRODUCT CATEGORIES:

- Sterilization and Disinfection Systems
- Disinfection Systems
- Operating Tables
- Oxygen Generating Systems
- Water Treatment Systems
- Hospital Equipment



PRODUCTION

- Produce your oxygen via ERY-OXY oxygen generating systems.
- No need to order in and store liquid oxygen tanks , gas cylinders
- ERY-OXY system uses air together with integrated air compressor, refrigerated dryer and filtration system and separates oxygen from other gases via nano-technology
- Separation is carried out with a synthetic zeolite material which does not need to be replaced
- Process is fully automated
- Transmission pressure is adjusted according to the customer's needs from 0 bar (g) to 6 bar (g).
- 90% - 98% at oxygen production purity
- For medical and commercial facilities

CONTROL

- ERY-OXY oxygen generating systems comply with 93/42/EEC Medical Device Directives
- Audible and visual alarms in case medical oxygen is below 90%.
- Automatic shut down system
- 7" LCD color touch screen control panel

STORAGE

- Integrated oxygen storage tanks
- System automatically stores pure oxygen to be ready for use

SYSTEM INFORMATION

- 1- Compressor
- 2- Pneumatic Liquid waste (test controlled)
- 3- Air dryer (Automatic water and oil drainage unit)
- 4- Oxygen generator
- 5- Air and oxygen tanks



ADVANTAGES

| | |
|-------------------|---|
| PRACTICAL | Easy to assemble; Customized design & modular solutions |
| | Produce your own oxygen. Together with the refrigerated dryer and filtration system, the air compressor takes the air and separates it from other gases via nanotechnology. Separation is carried out with a synthetic zeolite material which does not need to be replaced; |
| QUALITY | Up to 95% ($\pm 3\%$) oxygen production |
| SAFE | Works at 4-6 Bar pressure; fully automated |
| HEALTHY | High quality medical filters used for production |
| ECONOMICAL | Higher return on investment, eliminates cost of cylinder based oxygen supply. (ROI in 12 - 18 Months) |



FIELDS OF USAGE



• HEALTHCARE FACILITIES:

Hospitals, Intensive Care Units, Clinics, Ambulances, Oxygen Therapy Centers, Mobile Hospitals, Veterinary Hospitals



• WELLNESS CENTERS:

SPA and Beauty Centers, Ozone Treatment Centers



• INDUSTRIAL FACILITIES:

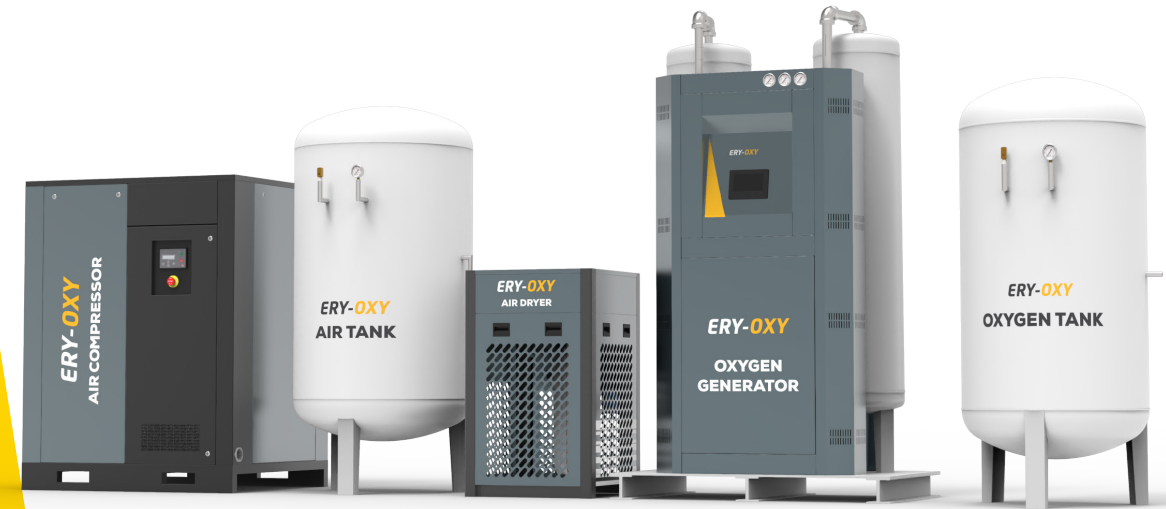
Factories like glass, painting, textile etc.

• CLOSED AREAS:

Hotels, Sport Halls, Shopping Malls, Cinema Centers

SPECIFICATIONS

- Fully Automated
- 24/7 – 365 days operation
- Compliance with 93/42/EEC Medical Device Directives
- 90% - 98% Purity
- 0,6 -150 m³/h Oxygen Output
- 220 V 50 Hz Oxygen Generator Power Supply – 380 V 50 Hz Compressor
- Operating Temperature is 0 to 50°C
- 0.15 – 35 m³/min Air Inlet (7 bar)
- No safety risks of handling of high pressure cylinders
- Digital control panel and graphic display
- Oxygen producing capacity between 10 L/min to 2500 L/min
- Return on Investment period 12-24 months
- Automatic shutdown and switch to safety mode once oxygen purity drop down to 90%



COMPRESSORS

- Highly efficient and energy saving screw block
- Efficient electrical motors
- Belt – pulley drive
- Maximum power and minimum maintenance with poly belt & pulley system
- Plc control unit
- Uninterrupted production with high quality air
- Suction valve with high energy efficiency
- Two stage air suction filter system
- Sound isolated acoustic cabinet
- Fully equipped safety system.
- Air cooling system
- Working pressure 6-8 bar
- Low noise level operation



DRYERS

- Durable
- Air hole copper plates welded with latest technology suitable technology for steel tubes
- Energy saving
- Compact exchanger design
- Exchangers suitable for various high pressure



OXYGEN GENERATOR SYSTEM

- Date and time setting
- Total working time
- Manuel or automatic start Pin code for buttons
- Digital display of Oxygen flowmeter (l/m)
- Oxygen purity digital & graphical display
- Digital time and graphical pressure display of PSA working on colons
- Digital display of oxygen pressure
- Adjustable and programmable control panel software (PLC)
- Adjustment time period of air control valves from the control unit
- Oxygen output pressure control from control panel
- Water and dust proof, lockable control panel
- Zeolit tanks
- High quality zeolite
- Humidity sensor
- Temperature sensor
- Wireless access to PLC panel



TANKS

- Compliant with 2009/105 CEE / EN 286-1, ED-2000, EN 13445 PED 97/23 EEC and EN 12542 Directives
- Maximum 10 bar working pressure
- 400 – 5000 Liters depending on the models
- Customizable designs



SKID MOUNTED OXYGEN GENERATING SYSTEMS

- Suitable for clinics, mobile hospitals, emergency services.
- 24/7 operation
- Provides up to 95% (\pm 3%) high purity oxygen
- Automatic shutdown and switch to safety mode once oxygen purity drop down to 90%
- Return on Investment period 12-24 months
- Compact model for small spaces



CONTAINER TYPE OXYGEN GENERATING SYSTEMS

- Portable and easy to install
- 24/7 operation
- Provides up to 95% ($\pm 3\%$) high purity oxygen
- Automatic shutdown and switch to safety mode once oxygen purity drop down to 90%
- Return on Investment period 12-24 months
- Adjustable for standart / non-standart container designs
- Our models could be offered in containerized models.



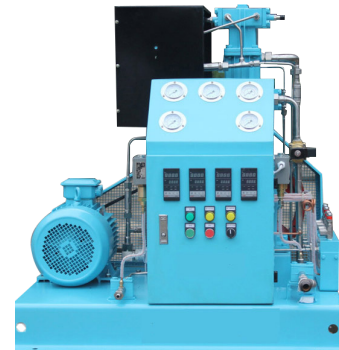
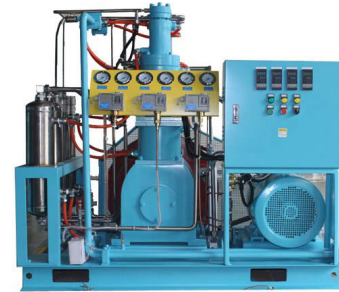
* Sample design & can be customized

Medical Oxygen Generating System placed outside of a hospital



OXYGEN FILLING SYSTEM

| Description | Technical Parameters |
|--------------------------------------|---|
| Working medium | oxygen gas |
| Structural style | 100%TOTALLY OIL FREE TYPE |
| Compression stage | 4 |
| Rated inlet pressure MPa(G) | 0.2-0.4 |
| Rated outlet pressure MPa(G) | 15.0 |
| Gas inlet temperature °C | 35-40 |
| Discharge temperature °C | ≤130 Before cooling |
| Gas supply temperature °C | ≤55 |
| Rotational speed of compressor/min | 190 - 300 |
| Type of cooling | Air - Cooling / Water - Cooling |
| Bent axle Connecting rod | Sealing grease lubrication |
| Air cylinder | Oil free lubrication |
| Power of motor (Kw) | 5 - 20 |
| Transmission way | Belt driven |
| The type of installation | Has simple install basement |
| The automatic control | Automatically stops when exhaust pressure overrun |
| The dimension: Long×wide×high mm | Differ according to the model |
| The size of gas inlet (mm) | 15 - 25 |
| The size of gas outlet(mm) | M16x1.5 |
| In and out of the water interface mm | NULL |
| Water consumption kg/h | NULL |
| Weight (Kg) | Differ according to the model |
| Power supply | 380 - 415 V 50 Hz - 3 phase |



Various sizes of cylinders can be filled with upto 300 bar pressure and the systems operate automatically.

Once the gas pressure in the cylinder reaches the desired level, the compressor stops and you can monitor from the control panel that the cylinder is full. The system is suitable for 24-hour continuous operation.



OXYGEN CAPACITY CHART FOR SELECTED MODELS

| Model* | FLOW m³/ hr - OXYGEN PURITY | | | | | | | | | AIR Nm³/ min 7 bar | OXYGEN TANK LITER | POWER CONSUMPTION (kW/hm³) |
|-------------|-----------------------------|---------|---------|------------|--------|---------|------------|--------|---------|-----------------------------|----------------------|----------------------------------|
| | 0,90% | | | 0.93% | | | 0.95% | | | | | |
| | Nm³/ hr | L/min | Kilo/hr | Nm³/ hr | L/min | Kilo/hr | Nm³/ hr | L/min | kg/hr | | | |
| ERY-OXY-4 | 2,52 | 42 | 3,6015 | 2,18 | 36,435 | 3,1185 | 2,03 | 33,81 | 2,898 | 0.55 | 400 | 1.99 |
| ERY-OXY-5 | 3,15 | 52,5 | 4,4625 | 3,10 | 51,45 | 4,41 | 2,89 | 48,3 | 4,095 | 0.75 | 400 | 1.55 |
| ERY-OXY-11 | 6,62 | 110,25 | 9,45 | 6,30 | 114,45 | 9,009 | 6,01 | 99,75 | 8,5785 | 1.65 | 1000 | 1.59 |
| ERY-OXY-15 | 9,86 | 163,8 | 14,091 | 9,45 | 157,5 | 13,5135 | 9,10 | 151,2 | 13,0095 | 2.5 | 1000 | 1.41 |
| ERY-OXY-18 | 12,36 | 204,75 | 16,17 | 10,62 | 177,45 | 15,1725 | 9,83 | 163,8 | 14,07 | 2.86 | 1000 | 1.31 |
| ERY-OXY-22 | 14,41 | 240,45 | 20,601 | 13,53 | 225,75 | 19,3515 | 12,53 | 208,95 | 17,9025 | | | |
| ERY-OXY-30 | 19,39 | 323,4 | 27,7305 | 18,22 | 303,45 | 26,0505 | 16,86 | 281,4 | 24,108 | 4.85 | 1500 | 1.33 |
| ERY-OXY-37 | 25,27 | 420 | 36,141 | 23,73 | 395,85 | 33,9255 | 21,98 | 366,45 | 31,4265 | 5.02 | 2000 | 1.21 |
| ERY-OXY-45 | 29,93 | 498,75 | 42,7875 | 28,11 | 468,3 | 40,194 | 26,02 | 433,65 | 37,2015 | 6.00 | 2000 | 1.26 |
| ERY-OXY-55 | 43,23 | 720,3 | 61,8135 | 40,59 | 676,2 | 58,044 | 37,59 | 626,85 | 53,76 | 9 | 3000 | 1.31 |
| ERY-OXY-75 | 53,20 | 887,25 | 76,0725 | 49,97 | 832,65 | 71,4525 | 46,26 | 770,7 | 66,15 | 11.2 | 4000 | 1.35 |
| ERY-OXY-110 | 73,49 | 1225,35 | 105 | 69,02 | 1150,8 | 98,7 | 63,88 | 1064,7 | 91,3815 | 15.5 | 5000 | 1.48 |

* DIFFERENT MODELS CAN BE CUSTOMIZED UPON REQUEST.

** FOR TECHNICAL SPECIFICATIONS PLEASE CONTACT US.

The best model option is provided based on the:

TOTAL HOSPITAL BEDS

TOTAL OPERATION ROOM

TOTAL INCENTIVE CARE UNITS

TOTAL INCUBATOR

TOTAL HOSPITAL VENTILATOR

TOTAL OXYGEN CAPSULE AMOUNT (per day or month)





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