MEDICAL OXYGEN *ON-SITE* GENERATION SYSTEMS

sysadvance®

PSA TECHNOLOGY

SYSADVANCE Oxygen 93 Generation Units (OGUs) are based on PSA (Pressure Swing Adsorption) technology, which enables Oxygen to be produced on-site from compressed air by removing contaminants (N_2, H_2O and CO_2) through a physical process known as adsorption.

ADVANTAGES

- **Cost Savings** – Reduction of up to 90% in Oxygen costs;
- **Convenience** – Elimination of logistical and administrative operations, including ordering and deliveries;
- **Reliability and Safety** – Continuous availability and redundancy;
- **Traceability of quality and production parameters**;
- **Reduced Maintenance Requirements**;
- **Turnkey Solutions**.

SUSTAINABILITY

The elimination of deliveries and transport reduces the carbon footprint associated to the hospital facility. Furthermore, the energy consumption associated with Oxygen generated by **SYSADVANCE** systems is significantly lower than that of the equivalent cryogenic Oxygen supply.



SYSADVANCE Oxygen generators and systems, as well as its Medical Air and Medical Vacuum systems, comply with the requirements of the Medical Device Regulation (EU) 2017/745*. They are certified and supplied with CE marking issued by an accredited Notified Body, and are duly registered with **INFARMED** – National Authority of Medicines and Health Products, I.P.. The systems can be consulted on the **infoDM** platform available on the Institute's website.

The systems also comply with the requirements of the Medical Gas Pipeline Systems standard – ISO 7396-1:2016, particularly with regard to safety provisions and redundancy of supply sources.

The Oxygen produced complies with the specifications of the European Pharmacopoeia – Oxygen 93 monograph. Medical air complies with the Medical Air monograph of the same Pharmacopoeia, as well as with the specifications of HTM 02-01.

* The transitional period from Directive 93/42/EEC to Regulation (EU) 2017/745 is currently ongoing, within the legal framework established by Regulation (EU) 2023/607.

O2 MED
MEDICAL

AIR
AIRSYS M

VACUUM
VACUUMSYS M

TECHNOLOGY AND MANUFACTURING • EUROPEAN UNION •

CERTIFIED OXYGEN, AIR AND VACUUM GENERATION SYSTEMS

+300 SYSTEMS INSTALLED WORLDWIDE

+10 SYSTEMS INSTALLED IN PORTUGAL

INSTALLING SYSADVANCE SYSTEMS IN PORTUGUESE HOSPITALS SINCE 2014





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COMPETE 2030
PORTUGAL 2030
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ISO 9001 SGS
IMQ CERTIFIED