

CONTAINERIZED OXYGEN PRODUCTION

Giving oxygen autonomy to field hospitals



Technical Features:

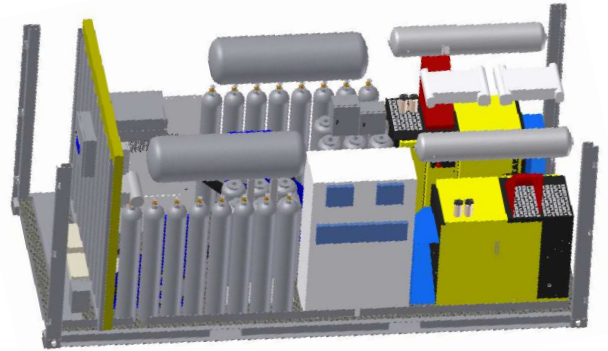
- O₂ flow : 15 Nm³/h (can be increased to 30 Nm³/h during ten hours using internal back-up). Flow is guarantee from sea level up to 2000 m elevation.
- O₂ quality : 93 % +/- 3% according to ISO / FDIS 10 083, US and EU pharmacopoeia).
- O₂ pressure out of container : 10 bar.
- Proven operational from -32°C to +55°C (and 40°C with 90% HR)
- Two independents climatic units to maintain internal components in operation independently of the external environment.
- Two independent PSA lines each providing one half of the total flow (possibility to cross the two air compressors and the two PSA in case of failure in order to increase the reliability of the plant)
- Two high pressure compressors (200 bar) allowing refilling of the internal back-up and filling of the cylinders on the external filling ramp. Each compressor has a 15 Nm³/h flow at 200 bar. Full redundancy for maintenance purposes.
- Internal back-up (15 B50 cylinders) allowing ten hours back-up for ten hours. Automatic changeover system. Possibility to connect a second external backup on this system.
- PLC controlled plant. Ergonomic Man machine interface. Bilingual interface. Fully automatic.
- Continuous online analysis monitoring (O₂ %, CO, CO₂, H₂O) according to pharmacopoeia recommendations.
- External filling ramp (17 connectors on four manifolds)
- Vacuum pump to ensure perfect cleaning of the cylinders before filling.
- Automatic cylinders filling and adjustment of pressure cylinders to environmental conditions.

Technical Features:

- Automatic Adjustable balance between hospital consumption and cylinder filling requirements (Hospital requests are the higher priority).
- Printer to affix tag on the cylinders after filling (full traceability on the oxygen quality).
- All oxygen high pressure components are certified.
- Compliant with EU medical directive 93/41/EEC.
- Transportation as standard ISO container by road, air (C130 Hercules), sea and rail. Stackable.
- Proven mechanical environment according to GAM EG 13 and NATO equivalents.
- Deployable on flatbed truck or ground.
- Radio remote alarm.
- Full documentation and troubleshooting guide.
- Canopy to protect filling ramp against rain, sun and sand
- Delivered with 100 m medical oxygen network and pressure regulators.
- Power supply : 400 V / 50Hz / 80 kW



Cylinders filling ramp



3D Overview



Man Machine interface



Inside view



Rain and sun canopy

Contacts :

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