

Oxymat Product at a Glance



Military Base, Afghanistan

We are always pleased when end users appreciate our products. During scheduled service inspection on military base of the Royal Netherlands Army based in Ermelo, our service engineers met with our oxygen container solution again. This oxygen generating system, including high pressure filling, has been in operation since 2007. Its last deployment was in Afghanistan, where it served

NATO forces for more than a year as a source of medical oxygen. According to the military operator, personnel are very satisfied with our solution and appreciate the trouble-free running and easy operation. Similar containerized solution for producing medical oxygen, operated by French Armed Forces, is currently deployed in another hospital in Afghanistan.

New Oxymat Medical Oxygen PSA System to be launched during Medica Düsseldorf

by Jesper Sjögren, CEO of Oxymat Group

Once again Oxymat is setting the bar very high, when it comes to new innovation. We launch the complete modular medical PSA systems with features not seen on the market before.



The system is centralized over a central monitoring and control system, the unique features in our solution is flow control of each PSA and back-up system. Conventional PSA systems will typically run with a relatively simple pressure control. In reality, this will result in problems if consumption is higher than the maximum capacity of the PSA. The oxygen purity will drop and shut down primary PSA

activating the backup PSA, which reacts same way and ultimately activating the backup cylinder bank.

Oxymat's new design will monitor and control the flow of each PSA. If oxygen consumption exceeds the capacity of the primary PSA, the system will ensure continuous supply.

If one PSA is coming to maximum delivery, it will automatically deliver at rated capacity and let backup PSA supply up to the requirement. This gives a number of benefits for the hospitals; two PSA systems will work perfectly around the clock, as the system will call for the primary PSA during hours with normal consumption. Even being able to let both PSA systems operate during peak hours or in extraordinary situations where all ICUs are working. In order to ease preventive maintenance and service work, the work load will be balanced between Primary and secondary PSA controlled by operating hours with automatic changeover. By monitoring the state of each PSA, the system is able to switch PSA line in case of an alarm (PSA line control).

The backup cylinders will be ready to ensure uninterrupted oxygen supply at any time either partly or fully in case of power failure.

Besides controlling up to two PSA and two cylinder banks the system can be equipped with an oxygen compressor that automatically fills internal back up cylinders, or cylinders for external use. Another unique feature is an intelligent system that can automatically fill cylinders during normal operation.

Autumn in Sign of Exhibitions

by Milan Rusnak, Oxymat Marketing Coordinator

October and November are traditionally a busy time of year, when it comes to Fairs. For Oxymat 2011 is no exception.

We are starting with participation on DanAqua - a new international aquaculture trade show in Aalborg Kongres & Kultur Center, Denmark. The trade show takes place on 12-14th of October 2011 and it runs



parallel with DanFish International which is among the world's leading

showcases for equipment to the fishing industry.

Next in row is Productronica in Munich Messe - the world's leading



The control system will monitor if there is an excess capacity in the PSA system, and automatically refill backup system. This will ensure that the system is always operating at the best and most efficient way, ultimately giving you the most cost-effective oxygen supply. The Oxymat system, directs only the excess capacity to the filling system, regardless of the oxygen compressor capacity, ensuring smooth and trouble free operation.

The very good news is that it is tested in harsh conditions in Afghanistan, and it is already known as the oxygen system that never fails, so far it is sold to several European Armies as well as US army. The system is suitable for civil and military hospitals

The Oxymat medical control system complies fully with ISO 10083 as well as European Pharmacopeia 7.0 it monitors CO, CO₂, water-dew point and oxygen concentration is measured with a paramagnetic oxygen analyzer.

Oxymat can deliver PSA systems without oxygen compressors from 4 to 10 bar(g) and fits all standards, including the French 10 bar(g) standard.

When it comes to cylinder filling we have developed an automatic vacuum system for cylinder cleaning as well as a special feature that monitors the cylinder temperature during filling. This feature compensates for different ambient temperatures and filling speed. As a result the cylinders will always have exactly 150 or 200 bar at 20°C day temperature.

The Oxymat medical control system can be set up to control all existing PSAs from all manufacturers as well as existing filling and backup systems.

The system is controlled with an easy operational touch screen with access via internet or intranet, so remote control is already built in. If you prefer an SMS or monitoring via radio, we have the solution to meet your demand.

Oxymat holds all relevant certifications such as MDD (Medical Device Directive), ISO 9001, ISO 13485 (Medical version of ISO 9001) and ISO 14001 (Environmental certification).

Come and visit us at Medica Düsseldorf and see this as well as other features from the number one PSA manufacturer world-wide.

international trade fair for innovative electronics production. This fair is the only place in the world where you will find the entire value chain for electronics manufacturing under a single roof. For visitors, that means a complete overview of the market. Oxymat will participate 15-18th of November in stand 416 in hall B2.



Finally, parallel with Productronica, we are opening our stand in Düsseldorf. Medica is the world's largest event for the medical sector.

Medica Fair takes place 16-19th of November and you can meet us in stand D75, hall 11.

