

PARACHUTISTS' OXYGEN CONSOLE

THE OXCON SYSTEM

The Parachutists' Oxygen Console, which supplements the man-mounted PHAOS system, is a light-weight, portable, multi-station oxygen system designed to contain and distribute regulated oxygen for pre-breathing on board the transport aircraft. The OXCON consists of three pressure reservoirs, an on/off valve, regulator, supply and manifold pressure gauges and multi-station oxygen distribution manifolds with quick disconnect fittings. The system is available in 2-man or 8-man capability.



These components are contained within a compact, rugged and reliable structure. It can be easily installed for missions requiring oxygen and can simply be recharged without disassembly and cleaning. Multiple OXCONs can be interconnected to increase pre-breathing duration.



MEETING THE CHALLENGES FOR HIGH ALTITUDE PARACHUTISTS

- Rugged Construction, Easily Maintained
- Lightweight Design (100 lbs. Filled)
- Lightweight, High Flex Hose
- In-Line Flow Indicators
- Stainless Steel Fittings
- Up to Eight-Man Capability
- Two-Hour Duration



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OXCON-0203

OXCON REGULATOR

The OXCON Pre-breathing Assembly incorporates a proven design regulator developed for use in the commercial life support and medical oxygen-handling field. The regulator, mounted beneath the console's top side servicing panel, reduces the internally-mounted supply cylinder pressure to provide a constant, usable system pressure of 70 PSIG. A port on the high-pressure side of the regulator allows measurement of supply cylinder pressure via one of the two Mil-Std gauges incorporated in the console system.

MANUAL ON/OFF VALVE

The manual on/off valve is rated to 5000 PSI heavy duty service. Its rugged construction allows for extended service life in the field.

MANIFOLD

The multi-station manifolds mounted beneath the enclosure panels provide four quick connects on each side of the OXCON housing. Low-pressure system-monitoring gauges are provided on both sides of the unit and are conveniently located near the quick connects. The manifold incorporates high pressure stainless steel fittings and all internal tubing in the console is stainless steel for ease of maintenance and safety.

SUPPLY RESERVOIRS

The OXCON system incorporates three lightweight 1000 cu. in. pressure cylinders, filament wound for added safety, meet all requirements of DOT FRP-1 Standard; Type 3FC Cylinders, modified by DOT-E-8162-1850 with an approved life of 15 years (3 year inspection/retest).

CHARGING VALVE

The system charging valve is located conveniently near the on/off valve and high-pressure monitoring gauge. An oxygen charging kit is provided for safely recharging the OXCON system.

PRESSURE GAUGES

Three pressure gauges are provided with OXCON. A high-pressure gauge indicates the available supply pressure from the pressure reservoirs. Two low-pressure gauges (one on each side) allow monitoring of the regulated outlet pressure at the quick connect manifolds. Both gauges conform to military standard specifications.

HANDLING PROTECTION

Protective guards are provided around controls, gauges and connections to minimize the risk of impact damage during handling.

OXCON OPTIONAL EQUIPMENT

The basic 8-man OXCON system includes 7-120" hose/flow blinker assemblies, 1-216" hose/flow assemblies, 1-oxygen charging assembly and 1-purging valve assembly. In addition, the OXCON system can incorporate:

- Interconnecting hoses to increase duration
- Specialty quick connect/disconnects per customer requirements
- Various hose lengths to meet mission requirements

All optional equipment is interchangeable with existing equipment and conforms with relevant military specifications.

APPLICABLE SPECIFICATIONS

All components have been designed or selected to conform to the relevant requirements of applicable military/government specifications:

MIL-G-8402 Gauges, Pressure
 MS33649-8 Cylinder Port
 MIL-H-81581 Hose Assembly, Breathing Oxygen
 MIL-S-7720/QQ-S-763 Fittings
 MIL-R-17852C-Reducer, Oxygen Pressure
 ASTM A269 Tubing
 DOT FRP-1 Std; Type 3FC Cylinders under DOT-E-8162-1850

ORDERING INFORMATION

PART NO.	DESCRIPTION	SPARES PART NO.	DESCRIPTION
605100-0	Oxygen Console Assembly, 8-man including: 8 Hose Assemblies, Charging assembly and Purge Valve Assembly	605110-0 605110-1 603700-0 603750-0	Hose Assembly, OXCON 120 Inch Hose Assembly, OXCON 216 Inch Oxygen Charging Assembly-OXCON Purge Valve Assembly
605200-0	2-Man Oxcon		