

# PHAOS

## PARACHUTIST HIGH ALTITUDE OXYGEN SYSTEM

THE PHAOS SYSTEM is designed and certified by the US Military to meet the high altitude parachutist's mission requirements. The PHAOS system integrates an MBU- 12P mask with an automatic diluter/demand regulator (as opposed to a constant flow system). This maximizes the effective use of oxygen which is consistent with mission objectives and individual user requirements.



The PHAOS has been tested by NASA, The US Army Soldier Systems Center (SSC), and NAVAIR. The PHAOS has been certified to operate at altitudes up to 35,000 ft MSL (Mean Sea Level) and remains the only certified oxygen system in the US.

The PHAOS System provides automatic, 100% oxygen breathing when connected to a prebreathing oxygen console and programmed dilution when breathing from the individual oxygen supply. This system was developed by integrating component concepts tested to military specifications. It meets all applicable oxygen system specifications.

The aneroid automatically adjusts the mix of oxygen and ambient air to ensure sufficient oxygen supply to the jumper at any altitude to 35,000 ft MSL. This mix ensures the optimal use of oxygen to the jumper and makes the PHAOS the most efficient parachutist oxygen system available today.

### MEETING THE CHALLENGES FOR HIGH ALTITUDE PARACHUTISTS



- Mask Integrated
- Diluter/Demand Regulator
- 35,000-Foot Capacity
- Low Profile Design
- Bottle Assemblies -
  - o Twin 22 cu. in.
  - o Single 88 cu. in.



*This data sheet is for information only and shall not form part of a contract*

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## THE PHAOS OXYGEN SUPPLY

The individual oxygen supply manifold includes a reducer, on/off valve, relief valve, gauge, fill valve and an oxygen console connector. Bottle(s) and hose assembly are also included. The reducer provides strict control of the oxygen supply. The on/off valve is human engineered for the parachutist's safety. It must be turned to the "on" position before connection to the pre-breathing oxygen console. When disconnected from the console, the individual oxygen supply automatically flows. The hose assembly includes a quick disconnect fitting.

## THE PHAOS MASK

The low profile, lightweight mask incorporates a diluter/demand regulator, auto dilution shut off, dilution aneroid, exhalation valve and male bayonet fittings. The mask eliminates hoses and connectors on the front torso providing the parachutist with a "clean front" thus improving vision and mobility. The mask-mounted dilution port and exhalation valve allows the user to breathe comfortably throughout total descent, even after all oxygen is consumed. This also provides facial protection for inadvertent landings in brush and trees.

## PHAOS OPTIONAL EQUIPMENT

The basic PHAOS System can incorporate:

- Various bottle capacities to increase duration
- Mask integrated communications (microphone)
- Helmet with fiberglass hard shell, rigid foam insert and bayonet receptacles
- Helmet integrated communications (headphones)

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

## APPLICABLE SPECIFICATIONS

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

- MIL-G-7601 Gage, Emergency Oxygen
- MIL-C-7905 Cylinder
- RR-C-501
- MS26545
- MIL-R-17852 Reducer, Oxygen Pressure
- MS 22066-3 Valve, Check, Oxygen Charging
- MIL-H-81581 Hose Assembly, Breathing Oxygen
- MIL-R-83178 Regulator, Oxygen, Diluter-

## ORDERING INFORMATION

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
603000-0	Oxygen Supply Sys, 44 cu. in., Twin 22 cu. in.	810263-0	Twin 22 Bottle Assembly Pocket
603100-0	Oxygen Supply System, 88 cu. in., Single	811211-0	Single 88 Bottle Assembly Pocket
603200-0	Oxygen Supply System, 120 cu. in., Single	810265-0	Single 120 Bottle Assembly Pocket
603800	Mask Assy., Short, w/o Communications (upgrade of 603300)	603500-0	Helmet Assy., Med. With Communications and Goggles
603810	Mask Assy., w/o Communications (upgrade of 603400)	603500-1	Helmet Assembly, Large
		603500-2	Helmet Assembly, X-Large
xxxxxx-0	Size Short	603510-0	Helmet Assy., Med. With Communications, Goggles, and Detachable Visor
xxxxxx-1	Size Regular	603510-1	Helmet Assembly, Large
xxxxxx-2	Size Long	603510-2	Helmet Assembly, X-Large
xxxxxx-3	Size Ex-Long		
	All Masks are available with either Straight or Offset Bayonet Fittings.		