

The SOLR<sup>®</sup> Family of Oxygen Systems consists of a large complete range of Personnel Oxygen Systems for High Altitude Parachute Operations. These include:

- SOLR<sup>®</sup> Oxygen Mask
- SOLR<sup>®</sup> 3000 bailout bottle
- SOLR<sup>®</sup> 4500 bailout bottle
- SOLR<sup>®</sup> 4500 Pre-Breather
- SOLR<sup>®</sup> Oxygen Booster Pump
- SOLR<sup>®</sup> Test Stand

### SOLR<sup>®</sup> Oxygen Mask

The SOLR<sup>®</sup> Oxygen Mask is the next generation oxygen mask for MFF HAHO. The SOLR<sup>®</sup> Oxygen Mask is built off a modular platform allowing field maintenance and reconfiguration to become effortless. The SOLR<sup>®</sup> Oxygen Mask features a new non-dilution oxygen demand regulator which delivers 100% oxygen during inhalation, during both pre-breathing and actual jump and descent under canopy. This ensures that the jumper is never breathing an oxygen/air mixture and mitigates the risk of hypoxia, drastically increasing the safety of operation. This breakthrough innovation is made possible by the very high service pressure of Airborne Systems' latest Bailout Bottles, allowing them to contain significantly more oxygen than traditional Bailout Bottles.

### SOLR<sup>®</sup> 3000 Bailout Bottle

This 122 cubic inch Oxygen Bailout Bottle has similar measurements as the current PHAOS 120 cubic inch oxygen bottle, however, thanks to its 3,000 psig fill pressure, it offers over 60% more oxygen capacity for increased flight duration under canopy. The 51 cubic inch Oxygen Bailout Bottle is lightweight and offers a compact size while still delivering enough oxygen for high altitude operations.

### SOLR<sup>®</sup> 4500 Bailout bottle

Offering 50% more oxygen capacity than the SOLR<sup>®</sup> 3000 Bailout Bottle, the SOLR<sup>®</sup> 4500 Bailout Bottle is perfect for increased flight duration under canopy. The reduced manifold size has been engineered for minimal size and maximum durability. For increased safety, the double action rotating oxygen toggle switch eliminates unintentional oxygen flow shut off.



SOLR<sup>®</sup> Oxygen Mask



SOLR<sup>®</sup> in use with the RA-1



SOLR® 4500 Bailout Bottle



SOLR® 4500 Pre-Breather



6-Man Oxcon 3000

## SOLR® Oxygen Booster Pump

The SOLR® Oxygen Booster Pump can be used to safely and efficiently fill high pressure oxygen systems to pressures up to 4,500 psi. An innovative seal design and cooling method ensure filling of oxygen at near ambient temperature. The SOLR® Oxygen Booster Pump is equipped with four outlets and a convenient two position selector switch which allows users to operate the pump at two different outlet pressures.

## SOLR® 4500 Pre-Breather

The SOLR® 4500 Pre-Breather is changing how pre breathing is achieved. Pre breathing no longer has to take place in the aircraft attached to a large console. With the SOLR® 4500 Pre-Breather, an individual can pre breathe at the location of their choice, board the aircraft and reach altitude without ever having to worry about breaking the pre-breathe cycle. With the SOLR® 4500 Pre-Breather Attachment System installed in the aircraft, each individual pre-breather can be mounted quickly and securely. With a 285 cubic inch cylinder the SOLR® 4500 Pre-Breather has no problem delivering oxygen for the most demanding pre-breathing schedules.

## 6-Man OXCON 3000

The 6-Man OXCON 3000 Oxygen Console, which supplements the new SOLR® 3000 Bailout Bottle, is a portable, multi-station oxygen console designed to contain and distribute regulated oxygen for up to six users on board the transport aircraft. The 6-Man OXCON 3000 Oxygen Console is constructed around the OXCON platform that is widely used by Special Forces and Special Operations Forces worldwide. The 6-Man OXCON 3000 Oxygen Console includes five 120" hose assemblies with flow blinker, one 216" hose assembly with flow blinker, one oxygen charging assembly, and one purging valve assembly.

## SOLR® Test Stand

The SOLR® Test Stand is designed to perform the calibration of Airborne Systems SOLR® Oxygen Masks, Bailout Bottles, and Pre-Breathers. It is capable of measuring inlet and outlet pressures, flow rates and oxygen partial pressures at sea level and at multiple altitudes.



SOLR® Test Stand

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