The Oxygen Generator and Liquefier (OGL) liquefies, stores and fills liquid oxygen (LOX)

- FDA 510(k) Clearance Number K131990
- Generates 1 liquid liter of 93% USP oxygen per hour
- Onboard LOX storage vessel
- Able to fill BMOS, BMOS-FS, MMOS, NPTLOX and PTLOX
- System performance data logging and fault output capability
- PC Boards with on-board watchdog timer
- Designed for reliability in harsh conditions (0° - 120° F)
- Automatically starts and stops based on liquid level in the 40 liter tank
- Provides 11 L/min 93% USP gas for filling HP cylinders.
- Washable/Reusable Filters

APPLICATIONS
Medevac (fixed and rotary wing), ground transport, parachutist and ground evacuation.

P/N 50C-0103-5 (tan) | NSN 3655-01-601-2119 | P/N 50C-0103-7 (dark green)

Backpack Medical Oxygen System Filling Station (BMOS-FS)

The BMOS Filling Station (BMOS-FS) is a portable 20 liter liquid oxygen storage device designed to fill multiple BMOS or MMOS systems. Average filling time is approximately three minutes. Requires no external power and has a built-in flow control valve. Tested to MIL-STD-810.

APPLICATIONS
Can be carried by two ground support personnel and can also be mounted in an aircraft, helicopter or ground vehicle.

P/N 50C-0083-3 (green) | NSN 3655-01-601-2275 | P/N 50C-0083-4 (dark green)

JAPANESE MINISTRY OF DEFENSE
SELECTED ESSEX INDUSTRIES
LIFE SUPPORT SYSTEMS

ESSEX Industries Life Support Systems were selected, tested, and successfully implemented by the Japanese Ministry of Defense during the rescue operations and relief efforts following the devastating 2011 earthquake and tsunami disaster.
**Mounted Medical Oxygen System (MMOS)**

4 Liter | MIL-STD-810 | 35lbs (full) | Requires no external power

**APPLICATIONS**
Can be carried by ground support personnel and can also be mounted in an aircraft, helicopter or ground vehicle.

P/N 50C-0105-1 | FDA# K113767

---

**Backpack Medical Oxygen System (BMOS)**

2 liter | MIL-STD-810 | 19 lbs (full) | Requires no external power

**APPLICATIONS**
Can be carried or worn by parachutists and ground support personnel.

P/N 50C-0089-4 | NSN 3655-01-598-9565 | FDA# 071581

---

**Next Generation Portable Therapeutic Liquid Oxygen System (NPTLOX)**

20 liter | 150 lbs (full)

**APPLICATIONS**
Can be carried by ground support personnel and can also be mounted in an aircraft or ground vehicle.

P/N 50C-0083-1 | NSN 6530-01-585-4676 | FDA# K033000

---

**Portable Therapeutic Liquid Oxygen System (PTLOX)**

10 Liter | 80 lbs (full) | LOX Storage and gaseous delivery system

**APPLICATIONS**
Can be carried by ground support personnel and can also be mounted in an aircraft or ground vehicle.

P/N 50C-0021-1 | NSN 6530-01-222-9494 | FDA# K880183
<table>
<thead>
<tr>
<th>PART DESCRIPTION</th>
<th>NSN</th>
<th>PN</th>
<th>ALT PN</th>
<th>PLATFORMS</th>
<th>CAGE CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OXYGEN GENERATOR AND LIQUIFIER (OGL)</td>
<td>3655-01-631-2889</td>
<td>50C-0103-5</td>
<td>3655NCM141218, 1206499</td>
<td>Ground Support</td>
<td>19062</td>
</tr>
<tr>
<td>BACKPACK MEDICAL OXYGEN SYSTEM (BMOS)</td>
<td>3655-01-628-1034</td>
<td>50C-0089-4</td>
<td>3655NCM141069, 1134924</td>
<td>Parachutists, Ground Support Personnel, Human transport, aircraft, helicopter or ground vehicles.</td>
<td>19062</td>
</tr>
<tr>
<td>MOUNTED MEDICAL OXYGEN SYSTEM (MMOS)</td>
<td>N/A</td>
<td>50C-0105-1</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>PORTABLE THERAPEUTIC LIQUID OXYGEN SYSTEM (PTLOX)</td>
<td>6530-01-222-9494</td>
<td>50C-0021-1</td>
<td>CRU-87/U</td>
<td>Ground Support</td>
<td>19062</td>
</tr>
<tr>
<td>NEXT GENERATION PORTABLE THERAPEUTIC LIQUID OXYGEN SYSTEM (NPTLOX)</td>
<td>6530-01-585-4676</td>
<td>50C-0083-1</td>
<td>3655NCM104411, 16902</td>
<td>Ground Support</td>
<td>19062</td>
</tr>
<tr>
<td>BMOS FILLING STATION (BMOS-FS)</td>
<td>3655-01-601-2275</td>
<td>50C-0083-3</td>
<td>3655NCM116923, 26848</td>
<td>Parachutists, Ground Support Personnel, Human transport, aircraft, helicopter or ground vehicles.</td>
<td>19062</td>
</tr>
<tr>
<td>50 GALLON LOX CART (DARK GREEN)</td>
<td>3655-01-066-6214</td>
<td>50C-0014-1</td>
<td>MIL-T-38170, TMU-27/M, 50C-0014-1, 0301045</td>
<td>All Platforms</td>
<td>19062</td>
</tr>
<tr>
<td>50 GALLON LOX CART (WHITE)</td>
<td>3655-01-456-0123</td>
<td>50C-0014-5</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH</td>
<td>N/A</td>
<td>80C-0008-1</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH</td>
<td>N/A</td>
<td>80C-0008-21</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH</td>
<td>N/A</td>
<td>80C-0008-22</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>500 GALLON LOX TRAILER (LOX)</td>
<td>3655-01-626-3554</td>
<td>50C-0115-1</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
<tr>
<td>500 GALLON LOX TRAILER (LIN)</td>
<td>3655-01-626-3553</td>
<td>50C-0115-2</td>
<td></td>
<td></td>
<td>19062</td>
</tr>
</tbody>
</table>