LIQUID OXYGEN EQUIPMENT Military & Commercial



ESSEX INDUSTRIES

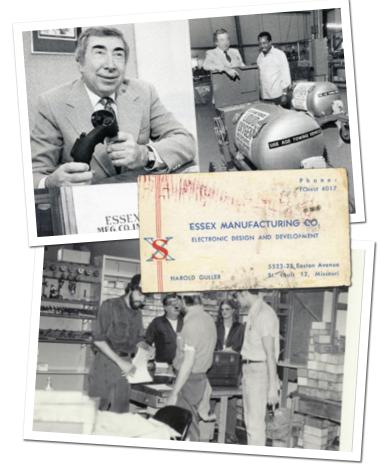
Essex Industries began as a family affair in Saint Louis, Missouri, over 75 years ago and has established itself as a prominent player within the aerospace and defense industry, offering platform controls, aircraft components, emergency breathing equipment, and liquid oxygen systems. With a legacy of creative innovation and an unwavering commitment to overcoming challenges, Essex has proudly contributed to every major aerospace program since 1947, becoming a leading aerospace and defense manufacturer.

Essex is able to gain a deep understanding of customer needs and engineer custom solutions to meet challenging requirements from the aerospace industry. Essex's products are known for their reliability and performance. This is accomplished through their rigorous quality control processes and the involvement of the dedicated engineering staff from part inception to delivery. Essex partners with world-leading OEMs and has a proven track record of delivering on the toughest application.

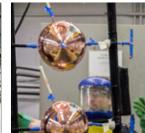
Essex entered the cryogenics market in 1963 and started manufacturing LOX converters, a highly efficient oxygen storage and delivery method. LOX systems provide several advantages over gaseous systems in these military applications because LOX increases volume 860 times as it converts from a liquid to a gas. This saves both weight and space on the aircraft and results in portable units that are easier to carry without sacrificing capability. They also have low operating pressures, less than 100 psi, which increases their safety factor, especially in battlefield situations.

The technology developed for military LOX systems has led Essex to similar advancements in the commercial medevac marketplace. Essex LOX systems are currently on 80% of the winged and rotary platforms that provide aeromedical transport from an accident scene to the medical center. Essex has provided over 100,000 new LOX systems for military and commercial applications, ranging from a 5 Liter Converter to 500 Gallon LOX Trailers.

Experience is one of Essex's greatest assets. The company has robust manufacturing capabilities that allow us to be agile and flexible and be able to adapt to new requirements. Essex will continue to learn and grow as we move forward, www.essexindustries.com











OVER 230,000 ft² OF MANUFACTURING SPACE

Essex employs over 450 people in Saint Louis, Missouri, Huntington Beach, California, and Milford, Connecticut, serving local, national, and international customers, both military and commercial.











LIQUID OXYGEN Filling Diagram



50 Gallon



GROUND SUPPORT AIRCRAFT LIFE SUPPORT







5 LITER LOX REMOVABLE

5 LITER LOX FIXED

7 LITER LOX CONVERTER REMOVABLE





10 LITER LOX CONVERTER

10 LITER LOX CONVERTER





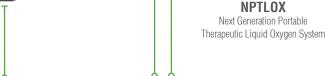
25 LITER LOX **CONVERTER** FIXED



75 LITER LOX CONVERTER













Backpack Medical Oxygen System

MEDICAL LIQUID OXYGEN SYSTEMS



P/N 50C-0083-1 | NSN 6530-01-585-4676 SHOWN WITH INCLUDED ACCESSORY KIT P/N 50C-0021-0001-1 (ACCESSORY KIT ONLY)

The NPTLOX is a low pressure portable 20 liter liquid oxygen storage and gaseous delivery system. It has been successfully tested to work in tandem with commonly used ventilators. FDA Life Support device 510(k) number K033000.

APPLICATIONS

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

20 LITERS

22 x 24 x 32

CAPACITY
W"x L"x H"
WEIGHT, FULL
WEIGHT, EMPTY
TOTAL GASEOUS VOLUME
SYSTEM INTERNAL PRESSURE
MAX FLOW RATE
DELIVERY/OUTLET PRESSURE
OPERATING TEMPERATURE
INDICATOR POWER
OUTLET CONNECTION
FILL CONNECTION
ACCESSORY KIT INCLUDES
PN 50C-0021-0001-1

155 LBS
105 LBS
17,200 LITERS
85-120 PSIG
66 LPM
50 ± 5 PSIG
32° F TO 110° F
TWO (2) 9-VOLT LITHIUM BATTERIES
SIX (6) SCHRADER QUICK DISCONNECT PORTS
CRU-50/A FILL VALVE
THREE (3) 20' MEDICAL GRADE HOSES
THREE (3) FLOW CONTROL VALVES: 0 TO 15 LPM WITH
11 SETTINGS (0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15 LPM)
THREE (3) HUMIDIFIER BOTTLES

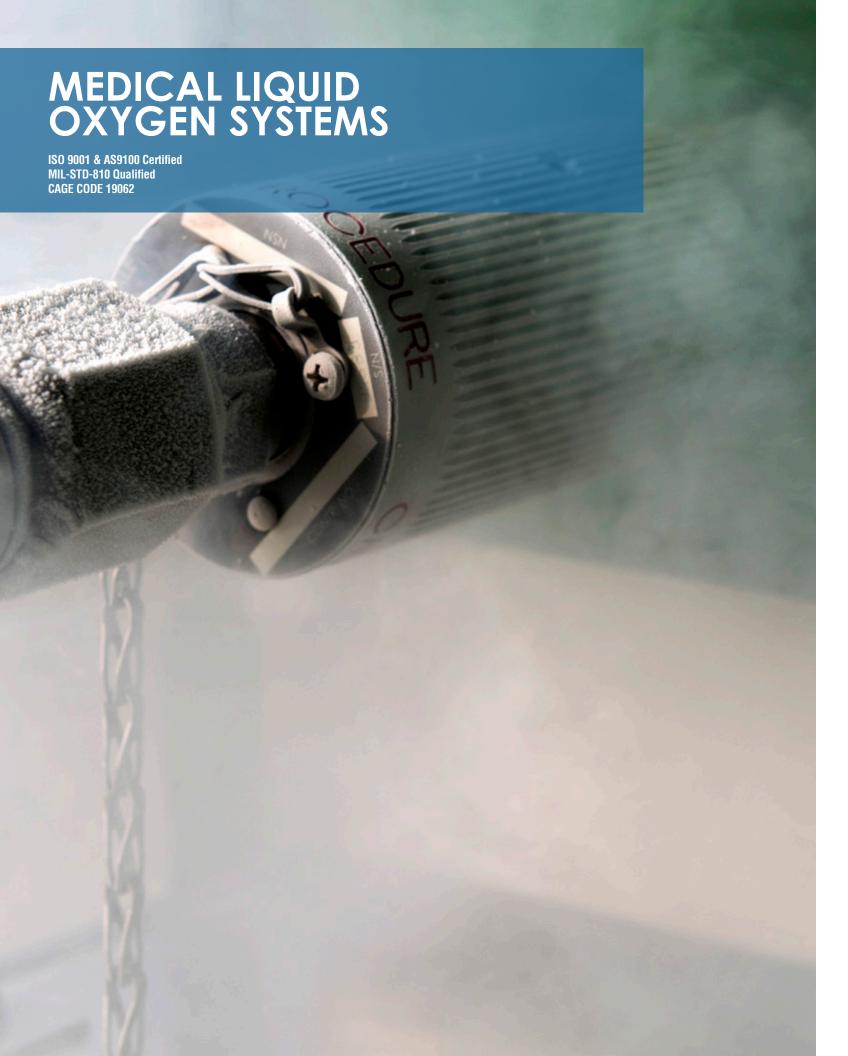
THREE (3) SCHRADER QUICK DISCONNECT ADAPTERS



DURATION OF REMAINING OXYGEN SUPPLY (flow rate/minute)

Don't in the state of the state						
LITERS OF LOX	LITERS OF GAS	60 L/MIN	45 L/MIN	30 L/MIN	15 L/MIN	
20	17,200	287	382	573	1,147	
19	16,340	272	363	545	1,089	
18	15,480	258	344	516	1,032	
17	14,620	244	325	487	975	
16	13,760	229	306	459	917	
15	12,900	215	287	430	860	
14	12,040	201	268	401	803	
13	11,180	186	248	373	745	
12	10,320	172	229	344	688	
11	9,460	158	210	315	631	
10	8,600	143	191	287	573	
9	7,740	129	172	258	516	
8	6,880	115	153	229	459	
7	6,020	100	134	201	401	
6	5,160	86	115	172	344	
5	4,300	72	96	143	287	
4	3,440	57	76	115	229	
3	2,580	43	57	86	172	
2	1,720	29	38	57	115	
1	860	14	19	29	57	





MEDICAL LIQUID OXYGEN SYSTEMS



BACKPACK MEDICAL OXYGEN SYSTEM (BMOS)

P/N 50C-0089-4 | NSN 3655-01-628-1034

The Backpack Medical Oxygen System (BMOS) is a low pressure, portable 2 liter liquid oxygen storage and gaseous delivery system that has been tested to MIL-STD-810 and requires no external power. It has also been successfully tested to work in tandem with commonly used ventilators. FDA Life Support device 510(k) 071581.

APPLICATIONS

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

CAPACITY 2 LITERS W"x L"x H" 7.5 x 17.5 x 6.5 WEIGHT, FULL 19 LBS WEIGHT, EMPTY 14 LBS **TOTAL GASEOUS VOLUME** 1.720 LITERS SYSTEM INTERNAL PRESSURE 45-65 PSIG MAX FLOW RATE 15 LPM DELIVERY/OUTLET PRESSURE 50 ± 5 PSIG **OPERATING TEMPERATURE** 32° F TO 120° F INDICATOR POWER SIX (6) AA BATTERIES BUILT-IN, 0 TO 15 LPM WITH 11 SETTINGS FLOW CONTROL VALVE (0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15 LPM)

FILL CONNECTION CRU-50/A FILL VALVE





MOUNTED MEDICAL OXYGEN SYSTEM (MMOS)

P/N 50C-0105-1

The Mounted Medical Oxygen System (MMOS) is a low pressure, portable 4 liter liquid oxygen storage and gaseous delivery system that has been tested to MIL-STD-810 and requires no external power. It has also been successfully tested to work in tandem with commonly used ventilators. The BMOS-FS Hose Kit connects the MMOS to the BMOS-FS for refilling. FDA Life Support device 510(k) number K113767.

APPLICATIONS

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

CAPACITY 4 LITERS 11.2 x 17 x 9 W"x L"x H" WEIGHT, FULL 35 LBS WEIGHT. EMPTY 25 LBS TOTAL GASEOUS VOLUME 3,440 LITERS SYSTEM INTERNAL PRESSURE 85-120 PSIG MAX FLOW RATE 30 LPM **DELIVERY/OUTLET PRESSURE** 50 ± 5 PSIG **OPERATING TEMPERATURE** -40° F TO 130° F INDICATOR POWER ONE (1) 9-VOLT BATTERY BUILT-IN, 0 TO 15 LPM WITH 11 SETTINGS FLOW CONTROL VALVE (0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15 LPM) **OUTLET CONNECTION** TWO (2) DISS 1240 PORTS AND TWO (2) FLOW CONTROL VALVES WITH 1/8" BARB PORTS FILL CONNECTION CRU-50/A FILL VALVE



BACKPACK MEDICAL OXYGEN SYSTEM FILLING STATION (BMOS-FS)

P/N 50C-0083-3 (GREEN) | NSN 3655-01-601-2275, P/N 50C-0083-4 (DARK GREEN)

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

The BMOS-FS Hose Kit, P/N 50C-0116-1, is used to connect the MMOS for refilling. See page 16.

APPLICATIONS

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

CAPACITY 20 LITERS 22 x 24 x 30 W"x L"x H" 125 LBS WEIGHT, FULL 75 LBS WEIGHT, EMPTY 17,200 LITERS **TOTAL GASEOUS VOLUME** SYSTEM INTERNAL PRESSURE 28-55 PSIG DELIVERY/OUTLET PRESSURE 28-55 PSIG OPERATING TEMPERATURE 32° F TO 120° F

INDICATOR POWER TWO (2) 9-VOLT LITHIUM BATTERIES

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AIRCRAFT LIFE SUPPORT ISO 9001 & AS9100 Certified MIL-STD-810 Qualified **CAGE CODE 19062**

AIRCRAFT LIFE SUPPORT LOX CONVERTERS

LOX CONVERTERS

LOX Converters are currently being or have been used on many of the Department of Defense aircraft, including the A-7, A-10, F-4, F-5, F-15, F-16, F-18, F-111, F-117, T-2, T-38, A-6, EA-6B, E-2C, S3, C-5, C-17, C-130, C-141, KC-135, HC-130 and the B-52 aircraft.

- Safe, lightweight and compact
- Internally mounted capacitance probe
- Stainless steel construction
- High vacuum insulation



5 LITER LOX REMOVABLE

P/N 10C-0020-9 (MB-5A) NSN 1660-00-327-7048 MIL-DTL-19328



5 LITER LOX FIXED

(GCU-12A/A) NSN 1660-00-148-9239 MIL-DTL-25666/4







10 LITER LOX CONVERTER **REMOVABLE**

P/N 10C-0016-16 (GCU-24A/A) NSN 1660-01-179-4064 MIL-DTL-19803



10 LITER LOX CONVERTER **FIXED**

P/N 10C-0005-11 (GCU-2 A/A) NSN 1660-00-078-8227 MIL-DTL-25666/1



P/N 10C-0045-10, -11, -12

P/N 10C-0020-9 **CAPACITY** 5 LITERS (REMOVABLE) **W"x L"x H"** 12.4 x 15 x 9.5 WEIGHT, FULL 28 LBS WEIGHT, EMPTY 15 LBS MAX TOTAL GASEOUS VOLUME 4.300 LITERS OPERATING PRESSURE 75-120 PSIG MAX FLOW RATE 72 LPM **OPERATING TEMPERATURE** | -65° F TO 260° F **MOUNTING** BASE PLATE WITH A SINGLE WING NUT FOR

EASY REMOVAL REQUIRED POWER INDICATOR FILL CONNECTION

COMBO VALVE

TWO (2) QUICK

DISCONNECT

DISCONNECT

PLUMBING CONNECTIONS

ELECTRICAL CONNECTIONS TWO (2) QUICK

5 LITERS (FIXED) 11.7 x 12.8 x 9.3 25 LBS 12 LBS MAX 4.300 LITERS 75-120 PSIG 72 LPM -65° F TO 260° F FOUR (4) MOUNTING BOLTS CRU-50/A MIL-PRF-25961 M533656-6 FIVE (5) TWO (2) QUICK DISCONNECT

10C-0021-5

7 LITERS (REMOVABLE) 7.3 x 29 39 LBS 21 LBS 6,020 LITERS 75-120 PSIG 50 LPM -20° F TO 120° F TWO (2) QUICK RELEASE BAND CLAMPS 5 TO 28 VDC, 200MA REMOTE MOUNTED INDICATOR CRU-50/A FILL VALVE ONE (1) QUICK DISCONNECT ONE (1) QUICK

DISCONNECT

10C-0059-7

10C-0016-16 10 LITERS (REMOVABLE) 12.4 x 15 x 12.5 45 LBS 20 LBS MAX 8.600 LITERS 75-120 PSIG 72 LPM -65° F TO 260° F BASE PLATE WITH A SINGLE WING NUT FOR EASY REMOVAL

DISCONNECT

CRU-50/A FILL VALVE 3/8" ANPT INTERNAL TWO (2) QUICK FIVE (5) DISCÓNNECT TWO (2) QUICK TWO (2) QUICK

10C-0005-11

38 LBS

20 LBS MAX

8.600 LITERS

75-120 PSIG

-65° F TO 260° F

DISCONNECT

FOUR (4) MOUNTING

72 LPM

BOLTS

10 LITERS (FIXED)

12.8 x 12.9 x 12.7

10C-0045-10, -11, -12 RTI (REMOVABLE) 16 x 18.5 x 18.5 75 LBS 50 LBS 8.600 LITERS 75-120 PSIG 100 LPM -65° F TO 260° F ENCLOSURE: FOUR (4) AIRCRAFT SEAT TRACK FITTINGS, 10 LITER: BASE PLATE WITH A SINGLE WING NUT CRU-50/A FILL VALVE

TWO (2)

TWO (2) QUICK

DISCONNECT PLUS

POWER CONNECTION

AIRCRAFT LIFE SUPPORT LOX CONVERTERS

2.C. FID. P/N NSI MIL

25 LITER LOX CONVERTER

P/N 10C-0001-26 (GCU-17/A) NSN 1660-00-122-8101 MIL-DTL-25666/5

P/N 10C-0002-25 (ME-3) NSN 1660-00-915-9673 MIL-DTL-25666/7



P/N CAPACITY W"x L"x H" WEIGHT, FULL WEIGHT, EMPTY TOTAL GASEOUS VOLUME OPERATING PRESSURE MAX FLOW RATE OPERATING TEMPERATURE MOUNTING PLUMBING CONNECTIONS

10C-0001-26
25 LITERS (FIXED)
19.8 x 19.3 x 17.5
96 LBS
33 LBS
21,500 LITERS
300-380 PSIG
150 LPM
-65° F TO 260° F
THREE (3) MOUNTING BOLTS
FIVE (5)
TWO (2) QUICK DISCONNECT

10C-0012-75
75 LITERS (FIXED)
23.5 x 23.5 x 24
275 LBS
85 LBS
64,500 LITERS
300-380 PSIG
400 LPM
-65° F TO 260° F
FOUR (4) MOUNTING BOLTS
FIVE (5)
TWO (2) QUICK DISCONNECT



AIRCRAFT LIFE SUPPORT GAS CYLINDERS





LOW PRESSURE CYLINDERS

P/N 80C-0008 SERIES

Low Pressure Cylinders operate at pressures of 500 PSIG or less and can be used as oxygen reserve tanks, walk-around bottles, plenum tanks or in a variety of other applications.

- Fabricated of stainless steel
- Available in other sizes and pressures
- Single or Double port cylinders available
- Constructed per MIL-DTL-5886



HIGH PRESSURE CYLINDERS

P/N 80C-0002, P/N 80C-0003, P/N 80C-0006 SERIES

High Pressure Cylinders operate at pressures ranging from 1800 to 2100 PSIG. A range of sizes and configurations are available, some designed and tested to Military Specifications.

	ESSEX PART NUMBER	MIL PART NUMBER	MIN. INTERNAL VOLUME (CUBIC INCHES)	NOMINAL OPERATING PRESSURE (PSIG)	MAX. WEIGHT (POUNDS)	MAX. LENGTH (INCHES)	MAX. DIAMETER (INCHES)	PORTS PER SAE AS71051
	80C-0008-1	M5886-1	280	450	3.75	14.50	5.750	ONE 1/4" ANPT
LOW ESSURI	80C-0008-2	M5886-2	280	450	3.75	15.00	5.750	TWO 1/4" ANPT
LOW	80C-0008-3	M5886-3	500	450	5.75	23.00	5.750	TWO 1/4" ANPT
_	80C-0008-4	M5886-4	1000	450	10.00	18.00	10.125	TWO 1/4" ANPT
	80C-0008-6	M5886-6	2100	450	18.00	24.50	12.562	TWO 1/4" ANPT
HE SH	80C-0002-1	MS26545A4C205AW	205	2100	10.17	24.250	3.703	ONE ½" ANPT
HIGH	80C-0003-1	MS2654A3X0096W	96	1800	5.90	13.375	3.703	ONE ½" ANPT
_	80C-0003-2	MS26545A4X0096W	96	2100	5.90	13.375	3.703	ONE ½" ANPT

GROUND SUPPORT EQUIPMENT ISO 9001 & AS9100 Certified MIL-STD-810 Qualified CAGE CODE 19062

GROUND SUPPORT EQUIPMENT LOX VALVES





LOX FILL, BUILDUP AND VENT VALVE

P/N 0580560100-1 NSN 1660-01-092-5376

The Fill, Buildup and Vent Valve is an automatic-acting type valve that provides a safe, rapid method to control liquid and gaseous oxygen flow during the fill-up and operation of cryogenic converters.

- Meets and/or exceeds functional and environmental requirements of
- Designed to mate with the standard liquid oxygen filler valve
- Check valve in the fill port prevents reverse flow of liquid gases
 Constructed of aluminum with stainless steel poppets and Teflon seals
- CRU-50/A connection







LOX FILLER VALVE

P/N 20C-0021-2 NSN 4820-00-796-9680

Liquid Oxygen and Nitrogen Filler Valves are specifically designed to service liquid oxygen and nitrogen systems for military aircraft.

- Perform in accordance with MIL-PRF-38201
- Automatically open and close when activated by the mating
- Pin quantity and size variations provided for proper coupling
- CRU-59/E connection

GROUND SUPPORT EQUIPMENT LOX CARTS

50 GALLON LOX CART

P/N 50C-0014-1 (DARK GREEN) | NSN 3655-01-066-6214 | TMU-27/M P/N 50C-0014-5 (WHITE) | NSN 3655-01-456-0123

The 50 Gallon LOX Cart is a mobile liquid oxygen storage tank assembly that allows for maximum reliability and portability with minimal maintenance. The 50 Gallon LOX Cart can be used with any LOX converter that uses a CRU-50/A fill connection, including all Essex LOX Converters, BMOS, BMOS-FS, MMOS, NPTLOX and PTLOX. Meets and/or exceeds functional and environmental requirements of MIL-PRF-38170. Tested to MIL-STD-810 and conforms to mobility requirements of SAE-A58090 (MIL-M-8090, Type II, Group A equipment).

CAPACITY
W"x L"x H"
WEIGHT, FULL
WEIGHT, EMPTY
SYSTEM INTERNAL PRESSURE
DELIVERY/OUTLET PRESSURE
OPERATING TEMPERATURE
FILL CONNECTION

OUTLET PORT TRANSPORTATION 50 GALLONS 54 x 85 x 39 1160 LBS 685 LBS 0-65 PSIG 20-65 PSIG -65° F TO 125° F

INSULATED TRANSFER HOSE (WILL WORK WITH ANY PORTABLE LOX DEVICE HAVING A STANDARD CRU-50 FILL CONNECTION)

CRU-59/E FILL VALVE ON TEN (10) FOOT HOSE STANDARD LUNETTE EYE WITH THREE (3) WHEELS (RETRACTABLE FRONT WHEEL), MANUAL PARKING BRAKE, LIFT/TIE DOWN RINGS







500 GALLON LOX TRAILER

P/N 50C-0115-1 (LOX) | NSN 3655-01-626-3554 P/N 50C-0115-2 (LIN) | NSN 3655-01-626-3553

The 500 Gallon LOX Trailer is a mobile liquid oxygen storage tank assembly.

The 500 Gallon LOX Trailer can be used with all Essex LOX Converters, BMOS, BMOS-FS, MMOS, NPTLOX, PTLOX and 50 Gallon LOX Carts.

A 500 Gallon LIN Trailer for the transport and storage of liquid nitrogen is also available.

- ASME certified tank builder
- Trailer Mounted and Forklift Compatible
- Unit is Qualified to Air Force PD13WRGRVEA05
- Tested to MIL-STD-810

CAPACITY
DIMENSIONS (W" x L" x H")
OVERALL CUBE
FULL WEIGHT
EMPTY WEIGHT
SYSTEM INTERNAL PRESSURE
LOX DELIVERY/OUTLET PRESSURE
OPERATING TEMPERATURE
STORAGE TEMPERATURE

OUTLET PORTS

TRANSPORTING

500 GALLONS 84 x 136 x 96

9500 LBS w/ LOX | 8000 LBS w/ LIN 4500 LBS

0-65 PSIG 30-50 PSIG -40°F T0 +140°F -60°F T0 +160°F

10' SERVICING HOSE PER MIL-H-27301 WITH SERVICING COUPLING FOR LOX PER 8991174 OR LIN PER 8991172 ADDITIONAL 10' SERVICING HOSE PER MIL-PRF-83772 WITH THE MATING SERVICING COUPLING AND CRU-59/E FILL VALVE. TRAILER PER SAE AS8090, TYPE II, GROUP C WITH LUNETTE COUPLER PER A5 22464, TYPE II

TIE-DOWN PROVISIONS PER MIL-HDBK-1791 & USAF 48B7796 LIFTING RINGS FOR CRANE COMPATIBILITY FORKLIFT TUBES FOR FORKLIFT COMPATIBILITY



GROUND SUPPORT EQUIPMENT ACCESSORIES



LOX PERSONAL PROTECTION EQUIPMENT

P/N 50C-0107-0903-1, -2, -3, -4 (Kits include Gloves, Apron, & Face Shield) P/N 50C-0107-0900-1, -2, -3, -4 (Cryogenic Elbow Length Gloves) P/N 50C-0107-0902 (Cryogenic Apron 42" Long) P/N 50C-0107-0901 (Face Shield)

Personal Protection Equipment (PPE) must be worn when filling, draining or purging LOX or other cryogenic devices. The extreme cold of the liquid can freeze unprotected skin cause severe frostbite. Essex offers face shields, cryogenic aprons and cryogenic gloves available separately or in kits in various sizes.

Actual items may vary slightly in appearance from those pictured.



LOX Heat Exchanger warms incoming gaseous or liquid oxygen within 20 degrees of the ambient temperature prior to delivery to a pilot, aircraft crew or medical patient for breathing. A variety of sizes and configurations are available.



LOX FILL HARNESS KIT

P/N 50C-0097-10 P/N 50C-0097-15

LOX Fill Harness Kit connects a Liquid Oxygen Cylinder (VGL) with a LOX converter or system for filling. The kit includes a relief valve, manual vent valve, CRU-59 LOX filler valve and hose assembly in either a 10' or 15' length.

W"x L"x H" WEIGHT RELIEF VALVE SETTING SUPPLY CONNECTION

23 x 18.5 x 7 15 LBS 400 PSIG CRU-59/E FILL VALVE



The Purge Kit, coupled with an adequate supply of gas, removes moisture from cryogenic vessels, system lines, valves and their components. Can be used with pure gaseous nitrogen, oxygen or air. Adapters and hoses can be designed to fit specific applications upon request.

W"x L"x H" WEIGHT SAFETY BURST DISC PRESSURE INLET FLOW & PRESSURE HEATER OUTLET TEMPERATURE OPERATING POWER OUTLET CONNECTION SUPPLY CONNECTION

18.5 x 14 x 7 18 LBS 150 ± 10 PSIG 100 LPM AT 55 PSIG 250° F ± 20 ° F 110 VOLTS AC, 60 HZ, SINGLE PHASE CRU-59/E OR ALOX 37 DEGREE FLARE FITTING





HIGH PRESSURE FILL KIT

P/N 50C-0110-1 | NSN 3655-01-614-1496

High Pressure Fill Kit connects the OGL with a high pressure oxygen compressor to fill high pressure cylinders with 93% USP oxygen. The kit includes a 20' low pressure oxygen hose and a 4' high pressure braided hose with a relief valve, manual vent valve and pressure gauge. The high pressure oxygen compressor is not included. Items are packaged in a protective storage case.

W"x L"x H" WEIGHT RELIEF VALVE SETTING SAFETY BURST DISC PRESSURE INLET AND FLOW PRESSURE ACCESSORIES INCLUDED 18.5 x 14 x 7 12 LBS 75 PSIG

150 ± 10 PSIG 0 ± 25 PSIG

ONE (1) 20' MEDICAL HOSE ONE (1) 4' HIGH PRESSURE HOSE ASSEMBLY ONE (1) CGA 540 CONNECTION

ONE (1) CGA 870 YOKE CONNECTION

BACKPACK MEDICAL OXYGEN SYSTEM FILLING STATION HOSE KIT

BMOS-FS Hose Kit connects the MMOS to the BMOS-FS for refilling. The kit includes a relief valve, burst disc, CRU-50 LOX filler valve and CRU-59 LOX filler valve attached to a 4' cryogenic transfer hose. Items are packaged in a protective storage case.

W"x L"x H" WEIGHT RELIEF VALVE SETTING SAFETY BURST DISC PRESSURE OUTLET CONNECTION SUPPLY CONNECTION

18.5 x 14 x 7 13 LBS 75 PSIG 150 ± 10 PSIG CRU-59/E FILL VALVE ON 4' HOSE CRU-50/A FILL FITTING



MISCELLANEOUS ACCESSORIES

10' Cryogenic Hose	P/N 50C-0084-10			
0/500 Gallon LOX Carts	P/N 50C-0014-0170 MIL-PRF-83772			
15' Cryogenic Hose	P/N 50C-0084-15			
50/500 Gallon LOX Carts	P/N 50C-0014-0500 MIL-PRF-83772			
Drain Tank	P/N 50C-0009-2			
Portable Efficiency Meter	P/N 50C-0016-2			
Portable Quantity Gauging System	P/N 50C-0022-1			
LOX Purge Fitting	P/N 50C-0014-0111			
LIN Purge Fitting	P/N 50C-0014-0250			
Supply Quick Disconnect	P/N 528000-7			
Vent Quick Disconnect	P/N 256000-7			

MAINTENANCE, REPAIR & OVERHAUL SERVICE

OUR WIDE ARRAY OF PRODUCTS AND DESIGN/BUILD EXPERTISE GIVES ESSEX A BROAD RANGE OF CAPABILITIES INCLUDING:

MACHINING

Aluminum, Titanium, Plastic, Teflon, 515 & 177 Stainless Steel

WELDING

Aluminum, Stainless Steel, Mild Steel, Titanium Certified to ASME, DOT & MIL-STD-1595A

SYSTEM REPAIRS

Liquid Oxygen (LOX), Liquid Nitrogen (LIN)

VALVE REPAIRS

Electro-mechanical, Liquid Oxygen (LOX)

COMPONENT REPAIRS

Specialty Tanks, Liquid Oxygen (LOX) Tubing, Heat Exchangers, Purge Kits, Platform Controls

TEST EQUIPMENT REPAIRS

NER Meters, Electrical Equipment

CLEANING & PROCESSING

Degreasing, Descaling, Passivation, Alodine, Anodize, O. Cleaning

FINISHING

Painting, Plating

TESTING

High Pressure Oxygen (to 6000 PSIG), High Pressure Nitrogen (to 3000 PSIG), Electrical, Fuel, Hydraulic (MIL-H-56066, Skydrol, MIL-H-7808)

Essex is known worldwide for our maintenance, repair and overhaul service. Converters still operating on NATO aircraft are returned to the factory every few years to be checked or repaired as needed. Essex also can repair virtually any model LOX Cart and will provide a full warranty on the overhauled unit.





ROTARY POOL SERVICE FOR LOX CONVERTERS

Essex offers a rotary pool service to ensure fast turnaround and minimum downtime when a LOX converter needs repair.

The process for this program is very simple:

- Ship the LOX converter needing repair back to Essex and provide us with the tracking number.
- Once we have that information, we will ship out a refurbished unit to you as a replacement. We typically ship the same day, and there is no charge to you at that time.
- When we receive the returned converter, Essex will perform any necessary repairs and invoice you for the work performed.
- The refurbished LOX converter then goes into our rotary pool for the next customer.

It's an easy and efficient process that enables your aircraft to have LOX available when needed.

Rotary Pool Service available for 7 and 10 Liter LOX Converters.

Contact Essex for more information regarding our rotary pool service or your maintenance, repair and overhaul requirements.









