

OXYGEN SYSTEMS



Aviation
Oxygen Systems

MOUNTAIN HIGH XCP SYSTEMS

The XCP is a low-cost, high-duration multi-place oxygen system. With the A3 and Oxymizer cannula each person will use at most 1.0 liter/min. at 18,000 ft. This makes it easy to calculate your cylinder life time. Example: If you have 415 liters and four persons and are to cruise at 18,000 ft., you would divide 415 by 4 which equals 103 minutes per person. The flow rate at 18,000 ft. is typically only 3/4 (0.750) liter/minute with the Oxymizer cannula. However, 1.0 liter/minute is used as a worst-case scenario and for calculation convenience. The XCP delivery system consists of: 1 ea. XCP quad-port regulator with self-sealing outlets, 4 ea. XCP face masks (for use with the A4 flowmeter or nasal congestion), 4 ea. Nelson A3 flowmeter/regulators with 3' (three feet) of high quality tubing with CPC connectors and 4 Oxymizer® type "M" nasal cannulas, 1 ea. Oxygen cylinder (AL-415 or AL-682), 1 ea. Tuff-Pack padded fabric carry/strapping case for cylinder and equipment. The XCP system comes with the A3 flowmeter/regulator. It has an altitude/flow scale calibrated for the unique Oxymizer oxygen-conserving cannula. The scale is marked in 2,000 ft. increments for VFR flight levels up to 18,000 ft. You can operate the XCP in IFR flight levels with the optional A4 flowmeter/regulator and associated F1 face masks. This will, however, use much more oxygen. All systems are shipped empty.



Persons	XCP carry-on systems man-hour service time with the Nelson A3 flowmeter and Oxymizer cannula								
	10,000 ft. MSL			14,000 ft. MSL			18,000 ft. MSL		
	XCP 180	XCP 415	XCP 682	XCP 180	XCP 415	XCP 682	XCP 180	XCP 415	XCP 682
1	10:00	23:00	37:53	05:27	12:35	22:40	03:51	08:51	14:34
2	05:00	11:30	18:56	02:43	06:17	10:20	01:55	04:25	07:16
3	03:00	07:40	12:37	01:49	04:11	06:52	01:16	02:58	04:51
4	02:30	05:45	09:28	01:22	03:08	05:10	00:57	02:12	03:38

- XCP-682-4P-FP: 682 liter (24 cu.ft.) 4-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03657.....
- XCP-682-2P-FP: 682 liter (24 cu.ft.) 2-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03658.....
- XCP-682-1P-FP: 682 liter (24 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03659.....
- XCP-415-4P-FP: 415 liter (15 cu.ft.) 4-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03660.....
- XCP-415-2P-FP: 415 liter (15 cu.ft.) 2-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03661.....
- XCP-415-1P-FP: 415 liter (15 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03662.....
- XCP-180-1P-FP: 180 liter (6 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03653.....



MOUNTAIN HIGH HANDHELD OXYGEN SYSTEM

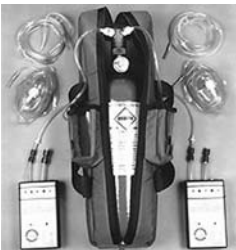
The Co-Pilot is an affordable, handheld oxygen system designed for supplemental breathing at high altitudes. This system is especially useful for pilots who only occasionally fly at altitudes requiring oxygen and, therefore, do not need a full-featured oxygen system for their aircraft. Unlike similar systems, the Co-Pilot's oxygen regulator has an on/off and volume control knob that is adjustable from off to 2 L/min. The face mask is removable and can be replaced with an Oxymizer cannula for continuous "hands-off" use for more than 30 minutes of duration per cylinder, at 15,000ft. At a glance, the built-in pressure gauge will allow you to see how much oxygen is available at all times. The Co-Pilot system can be shut off and stored with a cylinder installed for more than a year without any noticeable leakage. The basic Co-Pilot kit comes with regulator & gauge, face mask, two 18-liter non-refillable replacement cylinders, and an instruction manual. Options include additional cylinders, Oxymizer cannula, & holster pack. P/N 13-01016.....

MOUNTAIN HIGH EDS OXYGEN SYSTEMS



The EDS (Electronic Delivery System) is the first supplemental breathing system specifically designed for aviation to employ the tested and well founded pulse-demand method of oxygen delivery. This reduces the amount of oxygen wasted by as much as ten times over constant-flow systems, while providing over 90% blood saturation levels at and well above pressure altitudes of 25,000 ft. The EDS senses and synchronizes itself with your breathing to provide a pulse of oxygen when you benefit from it the most: at the very beginning of your inhalation cycle and not while exhaling, pausing or talking. Measurements show that up to 90% of the oxygen delivered is absorbed directly into the blood stream. A built-in density altitude barometer responds to altitude changes automatically, adjusting the oxygen amount as needed for each breath. The EDS has been hailed by several flight surgeons & physiologists as the most significant development in supplemental breathing devices since the advent of high altitude flying. Mountain High's current digital version, EDS-D1, is about the size of a cigarette pack, and it offers 9 modes of operation. All systems shipped empty.

- TR-95 Transfilling unit w/ variable flow transfer, fitting bleed valve and pressure/contents gauge. P/N 13-03925.....
- TR-75 Transfilling unit w/ "O" ring fittings and bleed valve P/N 13-03924.....
- TR-55 Transfilling unit with hand grip knob P/N 13-03923.....



Persons	Man-hour service time with cylinder @ 1,800 psig. with EDS unit(s) using cannula's or face mask(s)								
	10,000 ft. MSL			15,000 ft. MSL			18,000 ft. MSL		
	EDS 011	EDS 022	EDS 040	EDS 011	EDS 022	EDS 040	EDS 011	EDS 022	EDS 040
1	31:06	62:18	113:12	19:05	38:04	69:10	14:24	28:50	52:24
2	15:33	31:09	56:36	09:32	19:02	34:35	07:12	14:25	26:12
3	10:37	20:45	37:44	06:21	12:41	23:03	04:48	09:36	17:28
4	07:45	15:34	28:18	04:46	09:31	17:15	03:36	07:12	13:05

- EDS-022-FP: Kevlar fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03665.....
- EDS-011-FP: Kevlar fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03666.....
- EDS-480-FP: Glass fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03667.....
- EDS-180-FP: Aluminum cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03668.....

- EDS-040-2P-TF: Kevlar fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Tuff-Pack & tote bag P/N 13-03669.....
- EDS-022-2P-FP: Kevlar fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03670.....
- EDS-415-2P-FP: Aluminum cylinder, 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03671.....
- EDS-480-2P-FP: Glass fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03672.....
- EDS-D1: Unit only, (less regulator)..... P/N 13-02389.....
- EDS-D1: Kit with XCR regulator P/N 13-02390.....
- EDS-D1: Kit with XCR gauged regulator P/N 13-02391.....
- EDS-D1: Kit with XCR-DIN regulator P/N 13-02392.....
- EDS-D1: System with CFF-480 cylinder (1 place) P/N 13-02387.....
- EDS-D1: System with CFF-480 cylinder (2 place) P/N 13-02388.....

PS