

Oxylator EM-100

LSI has determined some approximate & slightly conservative tank capacity run times for the Oxylator EM-100. The manufacturer, CPR Medical Devices, Inc., of Toronto, Canada, has indicated to me that the utilization of compressed gas by the Oxylator EM-100 varies between 12 and 16 liters per minute, the utilization being affected by inhalation lengths and I:E ratios of the patient. LSI has chosen to calculate the following approximated tank capacities using a slightly conservative 15 liters per minute consumption rate.

In comparison, experience indicates that the BVM will last approximately 15 minutes on a "D" tank capacity at normal flows.

	<u>Tank Type</u>	<u>Approx. Capacity</u>	<u>Approx. Run Time</u>
(~2,000 psig)	'C' Tank	~240 liters	~16 minutes
(~3,000 psig)	'C' Tank	~360 liters	~24 minutes
(~2,000 psig)	'D' Tank	~420 liters	~28 minutes
(~2,000 psig)	Jumbo 'D' Tank	~650 liters	~43 minutes
(~3000 psig) Carbon Fiber	'DD' Lite Spiracle Technologies	~717 liters	~47 minutes
(~2,000 psig)	'E' Tank	~675 liters	~45 minutes
(~2,200 psig) Carbon Fiber	'EE' Lite Spiracle Technologies	~1,377 liters	~1.53 hours
(~2,000 psig)	'M' Tank	~4,950 liters	~5.50 hours
(~2,000 psig)	'H' Tank	~6,900 liters	~7.66 hours

SCBA Tanks

(Using 1 Square Cubic Foot (SCF) volume = 28.31685 liters volume)

(~2,216 psig)	SCBA Tank (45 SCF)	~1,274 liters	~1.40 hours**
(~3,000 psig)	SCBA Tank (59 SCF)	~1,670 liters	~1.85 hours**
(~4,500 psig)	SCBA Tank (45 SCF)	~1,274 liters	~1.40 hours**
	SCBA Tank (66 SCF)	~1,868 liters	~2.07 hours**
	SCBA Tank (87 SCF)	~2,463 liters	~2.73 hours**

** Divide by 2 if operating two Oxylators on SCBA regulator supplied by Lifesaving Systems, Inc.