

Oxylator EMX

LSI has determined some approximate & slightly conservative tank capacity run times for the Oxylator EMX. The manufacturer, CPR Medical Devices, Inc., of Toronto, Canada, has indicated to me that the utilization of compressed gas by the Oxylator EMX varies between 10 and 12 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 conservative 12 liters per minute consumption rate.

In comparison, experience indicates that the BVM will last approximately 15 minutes on a "D" tank capacity (~420 liters) at normal flows.

O₂ Tanks

	<u>Tank Type</u>	<u>Approx. Capacity</u>	<u>Approx. Run Time</u>
(~2,000 psig)	'C' Tank	~240 liters	~20 minutes
(~3,000 psig)	'C' Tank	~360 liters	~30 minutes
(~2,000 psig)	'D' Tank	~420 liters	~35 minutes
(~2,000 psig)	Jumbo 'D' Tank	~650 liters	~54 minutes
(~3000 psig) Carbon Fiber	'DD' Lite Spiracle Technologies	~717 liters	~59 minutes
(~2,000 psig)	'E' Tank	~675 liters	~56 minutes
(~2,200 psig) Carbon Fiber	'EE' Lite Spiracle Technologies	~1,377 liters	~1.91 hours/115 minutes
(~2,000 psig)	'M' Tank	~4,950 liters	~6.87 hours/412 minutes
(~2,000 psig)	'H' Tank	~6,900 liters	~9.58 hours/575 minutes

SCBA Tanks

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

(~2,216 psig)	SCBA Tank (45 SCF)	~1,274 liters	~1.75 hours**
(~3,000 psig)	SCBA Tank (59 SCF)	~1,670 liters	~2.32 hours**
(~4,500 psig)	SCBA Tank (45 SCF)	~1,274 liters	~1.77 hours**
	SCBA Tank (66 SCF)	~1,868 liters	~2.59 hours**
	SCBA Tank (87 SCF)	~2,463 liters	~3.42 hours**

** Divide run time by 2 if operating two Oxylators on any existing O2 tank regulator or SCBA tank regulator supplied by Lifesaving Systems, Inc.