

Oxygen Cylinder Guidance

Formula for determining time to run a cylinder at a set flow rate:

$$\frac{(\text{tank pressure in PSI} - 200) \times \text{cylinder conversion factor}}{\text{flow rate L/minute}} = \text{time until cylinder is empty}$$

Cylinder Conversion Factors and Max Tank PSI

Cylinder Size	Conversion Factor	Max PSI*	Amt. of oxygen when full
D	0.16	4000	350 liters
H or K	3.14	4500	6,900 liters
M	1.56	3450	3,000 liters
E	0.28	6000	625 liters

*(Max PSI can vary by tank manufacturer; the above numbers are the most common)

Portable Oxygen Tank

12VAC5-31-860. Required vehicle equipment.

B. Oxygen Apparatus

Portable oxygen unit containing a quantity of oxygen sufficient to supply the patient at the appropriate flow rate for the period of time it is anticipated oxygen will be needed, but not less than 10 liters per minute for 15 minutes. This unit must be capable of being manually controlled and have an appropriate flowmeter.

- Have sufficient oxygen to run at 10L/minute for 15 minutes
The minimum PSI* is listed below

D	1150 PSI minimum
E	750 PSI minimum

Transport Vehicle Tank

12VAC5-31-860. Required vehicle equipment.

B. Oxygen Apparatus

Installed oxygen system containing a sufficient quantity of oxygen to supply two patient flowmeters at the appropriate flow rate for the period of time it is anticipated oxygen will be needed, but not less than 10 liters per minute for 30 minutes. This unit must be capable of being manually controlled, have two flowmeters, and have an attachment available for a single-use humidification device.

- Have sufficient oxygen to run at 10L/minute for 30 minutes
The minimum PSI* is listed below

M	392 PSI minimum
H or K	300 PSI minimum