

Oxygen Cylinders Contents/ Time they will last if full

Formula to work out oxygen requirements: $\text{Oxygen requirements (l)} = 2 \times \text{ventilator consumption (l/min)} \times \text{Total Journey Time (min)}$.

D size Cylinders holds 340 litres when full.

Run at:	Minutes	Hours
1 litre/min	340 minutes	5 hrs 35 minutes
2 litre/min	170 minutes	2hrs 48 minutes
3 litres/min	113 minutes	1 hr minutes
4 litres/min	85 minutes	1 hr 24 minutes
5 litres/min	68 minutes	1 hr 08 minutes
8 litres/min	42.5 minutes	
10 litres/ min	34 minutes	
15 litres/ min	22 minutes	

E size Cylinders holds 680 litres when full.

Run at:	Minutes	Hours ¹
1 litre/min	680 minutes	11 hrs 20 minutes
2 litre/min	340 minutes	5 hrs 40 minutes
3 litres/min	226 minutes	3 hrs 46 minutes
4 litres/min	170 minutes	2 hrs 50 minutes
5 litres/min	136 minutes	2hrs 16 minutes
8 litres/min	85 minutes	1 hr 25 minutes
10 litres/ min	68 minutes	1 hr 8 minutes
15 litres/ min	44 minutes.	

F size Cylinders: 1360 litres when full

Run at:	Minutes	Hours
1 litre/ min	1360 minutes	22hrs 40 minutes
2 litre/min	680 minutes	11hrs 20 minutes
3 litres/min	453 minutes	7 hrs 33 minutes
4 litres/min	340 minutes	5 hrs 40 minutes
5 litres/min	272 minutes	4 hrs 32 minutes
8 litres/min	170 minutes	2 hrs 50 minutes
10 litres/ min	136 minutes	2 hrs 16 minutes
15 litres/ min	90 minutes	1 hr 30 minutes

ZX cylinder: 3040 L when full 3040 L

Run at:	Minutes	Hours
1 litre/ min	3040 minutes	50hrs 40 minutes
2 litre/min	1520 minutes	25hrs 20 minutes
3 litres/min	1013 minutes	16 hrs 50minutes
4 litres/min	760 minutes	12hrs 40 minutes
5 litres/min	608 minutes	10 hrs 8 minutes
8 litres/min	380 minutes	6 hrs 20 minutes
10 litres/ min	304 minutes	5 hrs 10 minutes
15 litres/ min	202 minutes	3 hr 20 minutes

References: APLS, Advanced Paediatric Life Support Manual, 2006.