

# Units Of Capacity and Volume Conversion Chart

## Oxygen Measurement

Weight of gas in metric ton (MT) to Volume of Gas at 26°C and 1 atm in CuM and in Litres	Weight of liquid oxygen in metric ton (MT) to Volume in litres (L) at normal boiling point	Volume of liquid oxygen in litres (L) at normal boiling point to volume of gas at 21°C and 1 atm in CuM
1 MT/1000 kg = 770 CuM (at 26 °C) = 7,70,000 litres (Gaseous)	1 MT (Liquid) = 876 litres (Liquid)	1 litre (Liquid) = 861 litres (Gaseous)
Source: Air Products, accessed from <a href="http://www.airproducts.net.br/products/Gases/gas-facts/conversion-formulas/weight-and-volume-equivalents/oxygen.aspx">http://www.airproducts.net.br/products/Gases/gas-facts/conversion-formulas/weight-and-volume-equivalents/oxygen.aspx</a> on 11 October 2021		

## IMPORTANT NOTES:

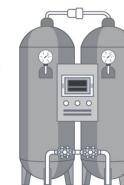
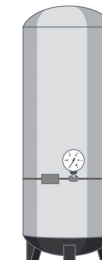
- Oxygen is supplied by manufacturers to hospitals in cryogenic form, which is usually measured in metric tons.
- Oxygen is transferred to LMO tanks, in which it is measured in litres or kilo litres.
- Oxygen is delivered to patients in gaseous form in litres per minute via oxygen points.

## Oxygen Sources and Capacity in terms of Jumbo Cylinder



Sr. No.	Type	Oxygen Tank size (in KL)	Gaseous Oxygen in CuM (m3)	Equivalent to Jumbo cylinders
1	Type B (Gaseous)	-	1.50	-
2	Type D Jumbo (Gaseous)	-	7.00	1
3	Dura Cylinder 180 litres (Liquid)	0.18	158.00	~23
4	Dura Cylinder 200 litres (Liquid)	0.20	175.56	25
5	Dura Cylinder 225 litres (Liquid)	0.225	197.50	28

Sr. No.	Type	Oxygen Tank size (in KL)	Gaseous Oxygen in CuM (m3)	Equivalent to Jumbo cylinders
6	Oxygen Tank 3 kilo litres (Liquid)	3.0	2633.40	376
7	Oxygen Tank 6 kilo litres (Liquid)	6.0	5266.80	752
8	Oxygen Tank 10 kilo litres (Liquid)	10.0	8778.00	1254
9	Oxygen Tank 20 kilo litres (Liquid)	20.0	17556.00	2508
10	Oxygen Generation plant 200 LPM (Gaseous)	288000 Litres/day	288 CuM/day	41 Cylinders/day
11	Oxygen Generation plant 500 LPM (Gaseous)	720000 Litres/day	720 CuM/day	103 Cylinders/day
12	Oxygen Generation plant 1000 LPM (Gaseous)	1440000 Litres/day	1440 CuM/day	206 Cylinders/day



Disclaimer : This poster has been adapted and customized from PATH's Oxygen Delivery Toolkit.