

Odyssey™ for Homecare



Luxfer's high-performance line of ultra-lightweight carbon composite medical oxygen cylinders

Luxfer's **Odyssey** product line features full-wrapped cylinders manufactured with inner liners made from our proprietary L6X® aluminium alloy and strengthened with a carbon fibre wrap that completely surrounds the liner.

Introduced in 1994, Luxfer carbon composite full-wrap cylinders were a major advance in gas-containment technology. The lightest-weight breathing gas cylinders in the world, these extremely durable cylinders quickly gained favour with firefighters, paramedics and other emergency first-responders.

Because of their lighter weight, compact size, higher capacity and excellent portability, **Odyssey** carbon composite cylinders are also becoming increasingly popular for resuscitation and pain relief, as well as for home oxygen therapy.

These ultra-lightweight cylinders provide maximum clinical benefits for ambulatory patients, offering them greater mobility and freedom to lead more active lives. Higher oxygen

capacity allows patients to participate in longer-term activities with fewer cylinders.

Odyssey cylinders are the ideal solution to the growing global demand for more gas in smaller packages.

Benefits of our Odyssey cylinder line

- Charging pressure to 300 bar.
- Up to 50% lighter in weight than all-metal aluminium cylinders.
- Up to 70% lighter in weight than conventional steel cylinders.
- Compact, highly portable and convenient to use.
- Cost-effective alternative to expensive LOX systems.
- Non-magnetic—compatible with MRI and other high-technology imaging systems.
- Extremely durable, corrosion resistant.

Odyssey[™] ultra-lightweight carbon composite medical oxygen cylinders

Water Capacity Litres	Oxygen Capacity Litres	Charging Pressure bar	Diameter mm	Length mm	Empty Weight kgs	Thread Size	Duration* ¹ (hrs:mins) 2 LPM	Duration* ² (hrs:mins) 3:1 Ratio
0.6	184	300	85	196	0.5	M18	1:31	4:35
1	306	300	85	294	0.8	M18 / 17 E	2:32	7:38
1.5	459	310	86	387	1.3	M18	3:49	11:27
2	612	300	101	386	1.4	M18 / 17 E	5:05	15:17
3	918	300	115	443	1.9	M18	7:38	22:56

¹ 2 LPM continuous flow at a rate of 20 breaths per minute

² 3:1 conserving ratio at a rate of 20 breaths per minute

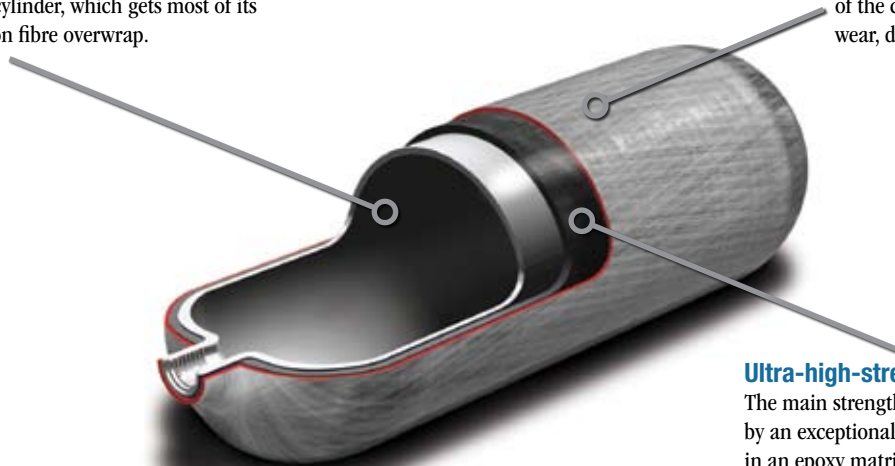
Components of an Odyssey cylinder

Seamless L6X[®] aluminium alloy liner:

This ultra-lightweight liner provides about 10% of the strength of the overall cylinder, which gets most of its strength from the carbon fibre overwrap.

Extra outer layer of glass fibre:

This additional fibre layer on the outside of the cylinder adds extra resistance to wear, damage and corrosion.



Ultra-high-strength carbon fibre:

The main strength of the cylinder is provided by an exceptionally strong carbon fibre wrap in an epoxy matrix that encompasses the liner all around.



Luxfer Medical[®]

Luxfer Gas Cylinders

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