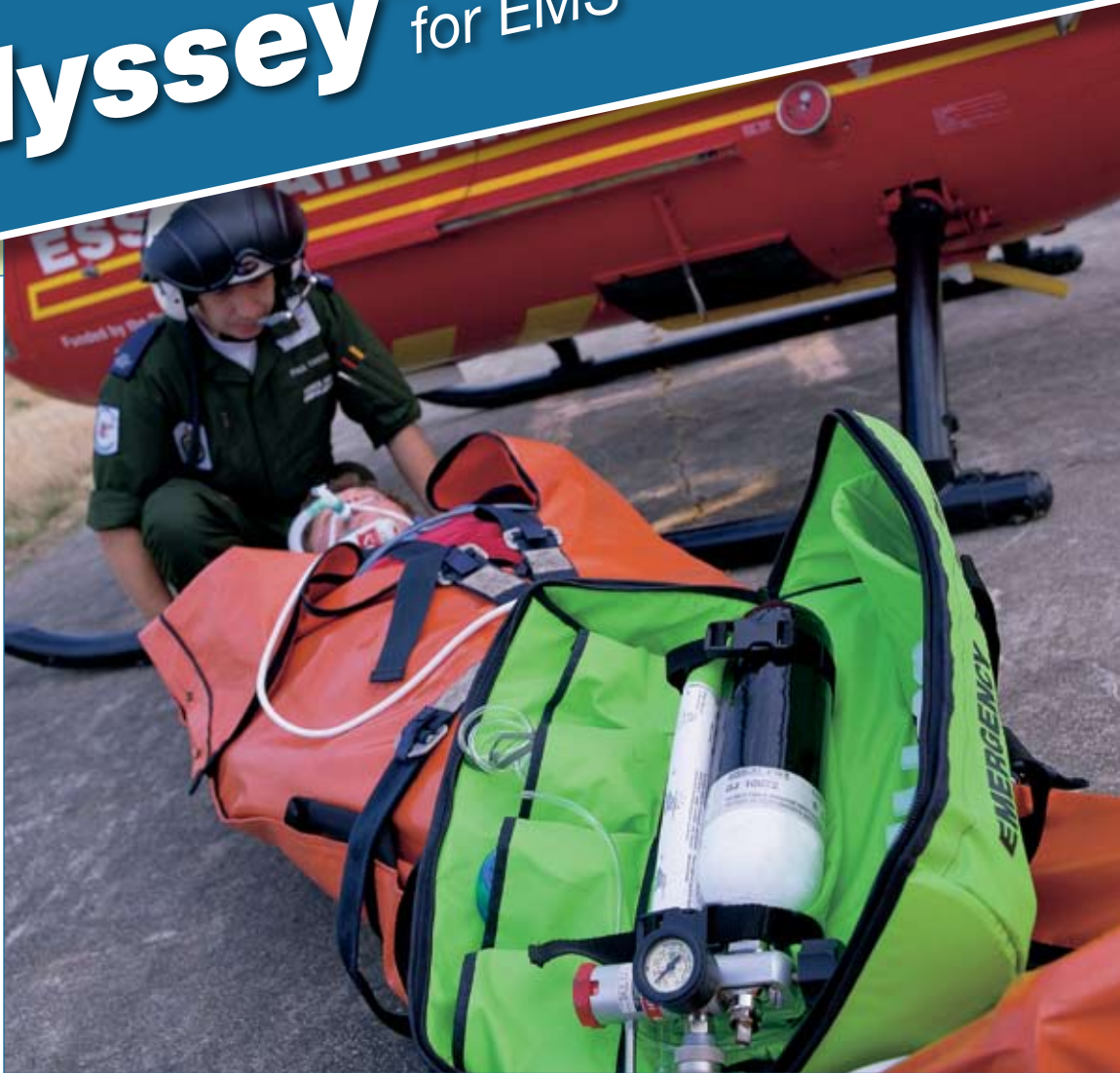


# Odyssey™ for EMS



## Luxfer's high-performance line of ultra-lightweight carbon composite cylinders for EMS service

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 in an epoxy matrix 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, who use them in self-contained breathing apparatus (SCBA). **Odyssey** full-wrap cylinders are now also widely used by 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 in emergency and pre-hospital care, as well as for home oxygen therapy.

**Odyssey** composite 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.
- Non-magnetic—compatible with MRI and other high-technology imaging systems.
- Extremely durable and corrosion resistant.

## Odyssey<sup>™</sup> ultra-lightweight carbon composite cylinders for EMS service

Water Capacity Litres	Oxygen Capacity Litres	Charging Pressure bar	Diameter mm	Length mm	Empty Weight kgs	Thread Size	Duration <sup>*1</sup> (hrs:mins) 15 LPM
0.6	184	300	85	196	0.5	M18	0:12
1	306	300	85	294	0.8	M18 / 17 E	0:20
1.5	459	310	86	387	1.3	M18	0:30
2	612	300	101	386	1.4	M18 / 17 E	0:40
3	918	300	115	443	1.9	M18	1:01

<sup>1</sup> Duration calculated at 15 LPM (continuous flow) at a rate of 20 breaths per minute

### Components of an Odyssey cylinder

#### Seamless L6X<sup>®</sup> 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 Gas Cylinders

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