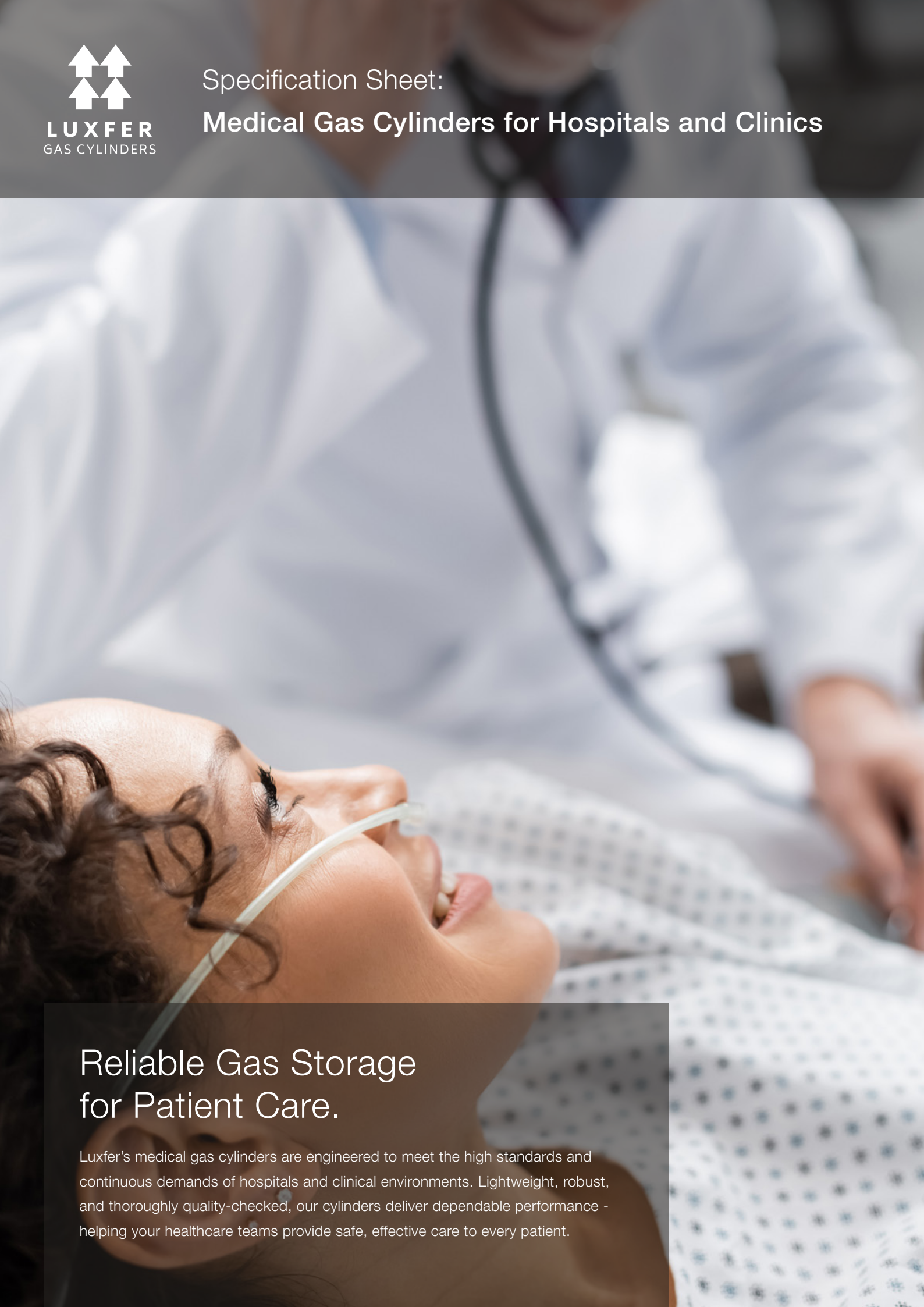




Specification Sheet:

Medical Gas Cylinders for Hospitals and Clinics

The background of the entire page is a photograph of a medical professional, likely a doctor, wearing a white lab coat and a stethoscope. The doctor is leaning over a patient who is lying in a hospital bed. The patient is a woman with dark hair, wearing a patterned hospital gown, and has a clear oxygen tube in her mouth. The scene is brightly lit, suggesting a clinical setting.

Reliable Gas Storage for Patient Care.

Luxfer's medical gas cylinders are engineered to meet the high standards and continuous demands of hospitals and clinical environments. Lightweight, robust, and thoroughly quality-checked, our cylinders deliver dependable performance - helping your healthcare teams provide safe, effective care to every patient.

Quality, Compliance, and Choice

Luxfer medical gas cylinders are designed for the fast-paced, regulated environments of hospitals and clinics. Made with proprietary aluminum alloys and advanced manufacturing techniques, our comprehensive range of medical gas cylinders offers the ideal size and weight for all healthcare applications.

Built for secure gas storage, our cylinders provide reliable performance in operating rooms, wards, and treatment areas - supporting both routine and emergency care.

What Sets Us Apart?

Our commitment to the medical industry means we offer a range of cylinders that are suitable for use across hospitals, clinics, and emergency care centers. Luxfer cylinders undergo rigorous quality checks and are manufactured in ISO certified environments.

Applications

Luxfer's medical cylinders are trusted by:

- Hospitals and surgical centers.
- Clinics and outpatient facilities.
- Emergency departments.
- Intensive care units.

Our Proprietary Aluminum Alloys

- L6X is our specific formula of 6061-T6 aluminum alloy. It was introduced in 1987 and has been exclusively used by Luxfer since 1988. L6X has become standard in the industry for various applications. Our L6X aluminum alloy has been specifically optimized to improve durability, fracture toughness, corrosion resistance and cylinder weight.
- Introduced in 2002, L7X is our higher-strength 7000-series aluminum alloy. L7X represents a significant metallurgical advancement, allowing us to improve cylinder strength, increase filling pressures, provide greater gas capacity and optimize cylinder weight.

Cylinder Technologies for Your Medical Gas Applications

- Type 1 cylinders are manufactured using aluminum billets, through a cold-extrusion process – providing a seamless, complete cylinder. Type 1 cylinders have a flat base, so they can be free standing without the need for additional support.
- Type 2 cylinders contain the liner of a Type 1 cylinder, which is then wrapped with carbon fiber around the body of the cylinder to provide lighter weight cylinders, without compromising performance. Type 2 cylinders have a flat base, so they can be free standing without the need for additional support.
- Type 3 cylinders are manufactured by fully wrapping an aluminum cylinder liner with carbon fiber. This provides extra strength and support for the cylinder, allowing it to be filled to higher pressures. Type 3 cylinders have a rounded base, requiring additional support to stand upright.

Medical Gas Cylinder Working Pressures

- Across the UK and Europe, many existing medical gas systems, regulators, and networks are designed and rated for 200bar pressure. At Luxfer, we provide 200bar medical gas cylinders for existing gas infrastructure, and 300bar medical gas cylinders for those upgrading infrastructure to take advantage of the benefits of higher-pressure gas cylinders.
- For applications where lightweight, high gas capacity and ease of handling are paramount, our L6X composite Type 3 cylinders are available at 300bar pressure.
- In standard cylinder sizes (2L to 10L), Luxfer's L7X 300bar gas cylinders provide significantly higher gas capacity with a minimal change in cylinder size and weight.

Medical Gas Cylinder Services

- Clean Valving Room: For your safety and peace of mind, our medical cylinders can be valved in a controlled environment. Since 2019, our Nottingham facility has met the ISO13485 standard, ensuring world-class quality management for the valving of medical gas cylinders.
- Beyond the Cylinder: We offer a complete suite of services including custom sleeves, painting, valving, and cages, providing tailored solutions for your specific requirements.

Medical Gas Cylinders for Hospitals and Clinics

Part Number	Standard	Aluminum & Cylinder Type	Water Volume (l)	Service Pressure (bar)	Diameter (mm)	Length (mm)	Weight (kg)	Oxygen Capacity (l)	Thread Size
A6371/1Q	TPED	L6X Type 1	2	200	102	395	2.6	426.5	17E
A834/1Q	TPED	L6X Type 1	2	200	102	390	2.7	426.5	25E
P3332N	TPED	L6X Type 1	5	200	140	530	6.63	1066.3	25E
P3340N	TPED	L6X Type 1	10	200	140	965	11.59	2132.5	25E
P3338N	TPED	L6X Type 1	10	200	176	660	12.91	2132.5	25E
P3333N	TPED	L6X Type 1	20	200	204	960	24.76	4265	25E
P3342N	TPED	L6X Type 1	50	200	250	1500	57.06	10662.5	25E
P7029N	TPED	L7X Type 1	2	200	102	360	1.85	426.5	17E
P7052N	TPED	L7X Type 1	2	200	102	360	1.85	426.5	25E
P7048N	TPED	L7X Type 1	3	200	117	415	2.8	639.7	25E
P7028N	TPED	L7X Type 1	5	200	140	473	4.65	1066.3	25E
P7033N	TPED	L7X Type 1	10	200	140	930	10	2132.5	25E
P7049N	TPED	L7X Type 1	15	200	180	820	12.6	3198.7	25E
P7046N	TPED	L7X Type 1	2	300	102	415	2.8	611.8	25E
P7043N	TPED	L7X Type 1	5	300	140	530	6.8	1529.5	25E
P7060N	TPED	L7X Type 1	10	300	140	975	11.8	3058.9	25E
P7050S	TPED	L7X Type 2	2	300	97	390	1.9	611.8	25E
P7040S	TPED	L7X Type 2	3	200	111	425	2.1	639.7	25E
M10J*	TPED	L6X Type 3	1	300	86	291	0.85	305	17E
M19J*	TPED	L6X Type 3	2	300	101	386	1.45	611	17E

Please contact us if you require information about additional cylinder sizes.

*Service Life (years) = NLL