



Mobile oxygen solutions.

Convenient and safe gas therapy
with LIV[®] anytime – anywhere.



Linde: Living healthcare

Mobile oxygen solutions.

Main features and performance.

Lightweight aluminium cylinder allows safe and easy transportation

The light weight aluminium cylinder is easy to lift and carry. This allows for ease of use during patient transport to hospital, within the hospital, and when taking patient outside the hospital.

The cylinders and LIV® are compatible for use during MR Imaging (up to 3 Tesla and as close as 30 cm from the magnet opening), providing extra convenience



Linde Integrated Valve (LIV®) provides greater convenience with minimum setup time

This unique valve has an integrated pressure regulator with a flow selector which is ready for use anytime. No additional regulators or flowmeters are required.

Mobile package specifications

Purity	99.5% Medical Oxygen
Design pressure	4,350 psig (300 bar)
Filled pressure/Outlet pressure	2,900 psig (200 bar)/50 psig
Gas volume	700 litres (0.7 m³)
Cylinder material	Aluminium with shrinkwrap
Cylinder water capacity/Cylinder weight	3.5 litres/2.86 kg
Cylinder colour	Green body with white shoulder
Valve Type	Integrated valve
Flow range	0 – 25 litres/min
Outlet Connections	Hose Barb for tubing connections Quick Connector for connections to medical devices
MRI compatibility	Up to 3.0 Tesla, as close as 30 cm from magnet opening
Cylinder Test requirement	Every 5 years



LIV® mobile package. Safety and more convenience for patient transfer.



More efficiency and economy

- Ready to use – no more change of regulators
- MRI conditional (Including patients requiring oxygen therapy during MRI)
- No additional regulators and flowmeter needed
- No maintenance and/or repair needed

Convenience

- Two ergonomic handles
- Light weight aluminium cylinder
- Flow-outlet connection for tubing connected to mask or nose cannula
- Pressure outlet connection for medical devices (which are the same as from the wall-outlet)

Enhanced patient safety

- Continuous flow to the patient (also between settings)
- Active gauge – the oxygen pressure/content in the cylinder is always known
- Robust design

Notice the warning on the label and accompanying documents before use.

Medical oxygen (O₂), 99.5%

Inhalation use. For medical use only. Only connect the cylinder to a connection intended for the medical gas. Always read the package leaflet before use. Do not smoke near the LIV®. Keep away from combustible material, open flame and sparks. Contact with combustible material can cause fire. Do not expose to temperature higher than +65°C. If at risk of fire, move to a safe place. Do not use outside operating temperature range -20°C to +45°C. Do not expose to corrosive substances e.g. ammonia. Keep out of reach and sight of children. Keep the cylinder package clean, dry and free from oil and grease. Keep the cylinder in storage reserved for medical gases. Store and transport the cylinder with valve closed. Use only in well-ventilated areas. Make sure that the cylinder package cannot fall and is not dropped. Do not attempt to disassemble the package. Do not attempt to refill the cylinder. Do not alter the markings on the LIV® package. In the event of leakage or defective cylinder package, close the valve, mark as "defective", put aside, and return to Linde Healthcare. **MRI CONDITIONAL** Static Field Strength ≤ 3.0T. Do not move the package during MRI scan, as the MR image quality may be degraded. Keep the valve minimum 30 cm away from magnet opening, while in MRI environment. **Instructions for Use.** Operating temperature: -20°C to +45°C. Only use with devices intended for the product administration. Prepare to change the cylinder when the pointer on the gauge enters the red area. To ensure the correct, prescribed flow rate, always make sure that the flow selector is positioned on a numbered flow setting, not between flow settings. **Before Use.** Make sure that the pointer on the gauge is not in the red area. Make sure that the flow selector is set at zero. Connect the delivery device to outlet. Slowly turn the shut-off valve anticlockwise to open the LIV® fully. If a delivery device is connected to the flow outlet, turn flow selector stepwise up through flow settings to select flow. The patient can now be connected to the delivery device. **After Use.** At the end of the treatment or when exchanging an empty cylinder: Remove the delivery device from the patient. Turn flow selector stepwise down through flow settings to zero. Turn the shut-off valve clockwise to close the LIV®. Turn the flow selector fully to vent any gas trapped in the equipment. When gas trapped in the equipment has vented off, turn the flow selector back to zero. Disconnect the delivery device from outlet.

Expertise in mobile oxygen solutions.

The new generation of lightweight mobile oxygen aluminium cylinders with the Linde Integrated Valve (LIV®) makes mobile oxygen therapy safer, easier and more convenient. This new LIV® cylinder frees up time for healthcare professionals to concentrate on the patient, and enables more cost-effective use of the cylinder content. Experience the new standard for mobile oxygen therapy set by Linde, anytime – anywhere. Linde Healthcare is a global leader specialising along an integrated respiratory care path. It combines pharmaceutical gases, medical devices, services and clinical care into solutions with the patient in mind. Its products and services make a difference in the lives of its patients and to its healthcare partners in the care continuum from hospital to home. A global business unit of The Linde Group, it is present in over 60 countries, generated revenues of EUR 3.059 bn in 2014 and employs 16,643 employees. For more information, visit Linde Healthcare online at www.linde-healthcare.com.

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