

OXY50 L

Unique Analytical grade Oxygen Generator



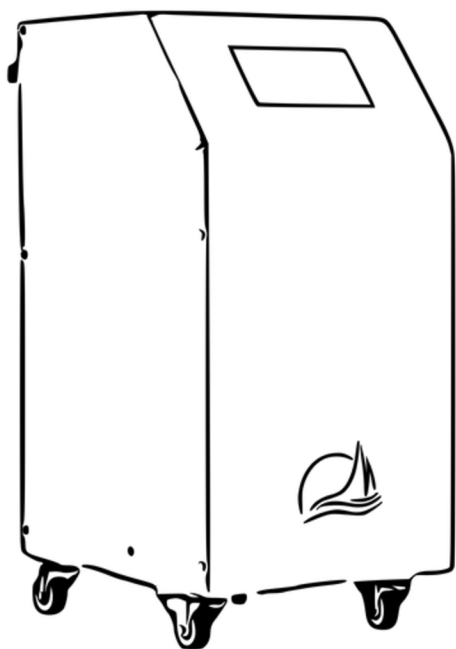
DESCRIPTION:

LEMAN Instruments designed the OXY50L product line of High-Purity Oxygen Generators to fit almost any type of application that needs an independent supply of pure Oxygen close to the consumer in a laboratory environment.

A revolutionary, patented smart system based on Pressure Swing Adsorption (PSA) technology extracts oxygen from a set of filters filled with different molecular beds. After the extracting process, O₂ is stored in a buffer, and the filtered remaining particulates are down to 0.01µm; finally, the output pressure is regulated electronically to the set value, between 0.5 and 5 bar (7 to 72 psig).

Models with outflows of 0.25, 0.5, 1, 4, 7 NL/min O₂ and purity >99.999% O₂ are available.

Each instrument has high-performance communication interfaces (USB, Ethernet) to create a very flexible gas network with local or central control. The software's focus on safety, automatic regulation, and reliable communications makes the OXY50L easy to install, reliable, safe, and pleasant to operate



APPLICATION TYPES:

- NOX efficiency tester
- GC-SCD
- Organic/Inorganic Spectroscopy
- L Any application that requires O₂
- Burner Gas into: Sulfur Analysis - Nitrogen Analysis - Halides Analysis

FEATURES:

- Reduces in operation costs. Return on investment within three months for the most significant consumptions
- Improves reproducibility of measurements
- Provides High-pressure stability.
- Oxygen is available 24/7 at constant purity. No contamination.
- Independent source of O₂. Does not require any piping. It can be easily moved around the laboratory.
- No handling, No storage, No cylinder rental fee.
- Massive improvement for laboratory safety environment.



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MODELS	OXY50 L-250 OXY50 L-500 OXY50 L-1 OXY50 L-4 OXY50 L-7
LPM O2 Outflow @ 1013/20°C	OXY50 L-250: 0.25 LPM OXY50 L-500: 0.500 LPM OXY50 L-1: 1 LPM OXY50 L-4: 4 LPM OXY50 L-7: 7 LPM
Output O2 purity	<ul style="list-style-type: none"> • 99.999% O2 • < 10 ppm N2 • < 1 ppm THC/CH4 • particulates <0.01µm
Dew point	-50°C
Outlet Pressure	From 0.5 to 5 bar (7 to 72 psig)

Dimensions cm / in	<p>OXY50 L-250 – L:40.5cm / I:32.5cm / H:69cm OXY50 L-500 – L:40.5cm / I:32.5cm / H:69cm OXY50 L-1 – L:40.5cm / I:32.5cm / H:69cm OXY50 L-4 – L:70cm / I:48cm / H:69cm OXY50 L-7 – L:70cm / I:48cm / H:69cm</p> <hr/> <p>OXY50 L-250 – L:15.7in / I:12.5in / H:27.1in OXY50 L-500 – L:15.7in / I:12.5in / H:27.1in OXY50 L-1 – L:15.7in / I:12.5in / H:27.1in OXY50 L-4 – L:27.5in / I:18.8in / H:27.1in OXY50 L-7 – L:27.5in / I:18.8in / H:27.1in</p>
Net weight (kg/lbs)	40kg-75kg / 88lb-132lb

Compressed AIR	Oil-free, dried compressed Air; according to DIN ISO 8573-1 class3 with 2-3 bar higher than O2 outlet and a minimum ration of x50 (require 50LPM of compressed air) for 1LPM of O2
Manual control	Through a 7" TFT-LCD color display with a touch screen on the front panel. Display of major parameters, pressure, functioning status, and alarms. Intuitive navigation to functions by menus and sub-menus
Remote control, Communications	<ul style="list-style-type: none"> • Through Ethernet 10/100 network • USB • RS485
Input & Output fittings	Stainless steel 1/8" compression / any connector requested by the customer
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 150W
Ambient temperature	+10 to +35°C

