OXY50 L

Unique Analytical grade Oxygen Generator

Leman Instruments

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, and 7 NL/min O2 and purity >99.999% O2 are available.

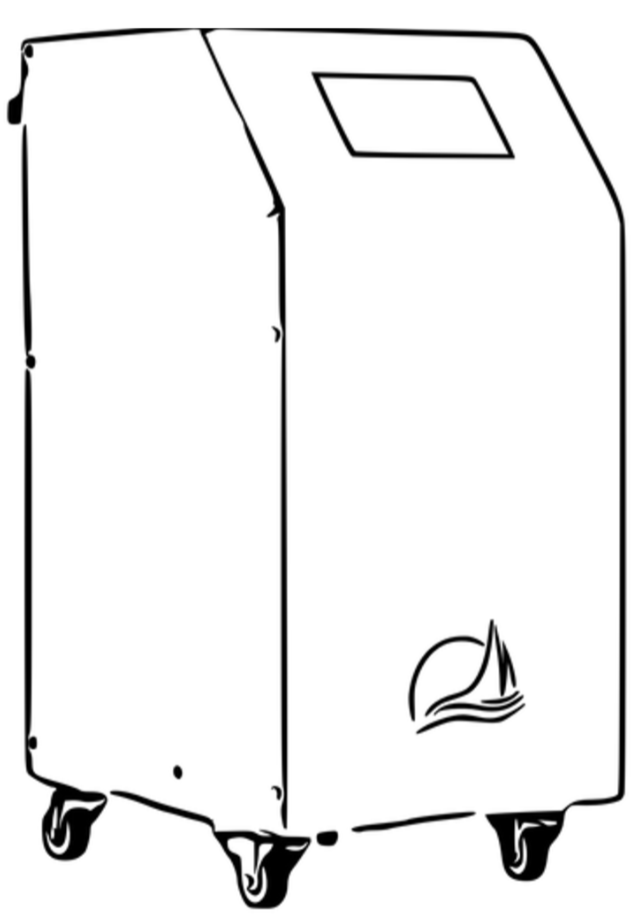
Each instrument has high-performance communication interfaces (USB, Ethernet) to create a very flexible gas network with local or central control.

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
- Any application that requires O2
- Burner Gas into: Sulfur, Nitrogen and 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
O2 purity	99.999% O2 <10ppm N2, <1ppm THC/CH4 Particulates <0.01µm
Dew point	-50°C
Outlet Pressure	From 0.5 to 5 bar (7 to 72 psig)
Dimensions cm / in	OXY50 L-250 / L-500 / L-1 — L:40.5cm, l:32.5cm, H:69cm OXY50 L-4 / L-7 — L:70cm, l:48cm, H:69cm OXY50 L-250 / L-500 / L-1 — L:15.7in, l:12.5in, H:27.1in OXY50 L-4 / L-7 — L:27.5in, l:18.8in, H:27.1in
Net weight (kg/lbs)	40kg-75kg / 88lbs-165lbs

Compressed AIR	Oil-free, dried compressed Air; DIN ISO 8573-1 class 3 with 2-3 bar higher than O2 outlet and a minimum ratio of x50 (require 50LPM of compressed air) for 1LPM of O2
Technology	Patented smart Pressure Swing Adsorption
Manual control	Through a 7″ TFT-LCD color display with touch screen on the front panel. Display of major parameters, pressure, functioning status, and alarms.
Remote control, Communications	Ethernet 10/100 · 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