

DIHYDRO50L

Ultra-High-Purity Deuterium generator



DESCRIPTION:

LEMAN Instruments designed the DIHYDRO50L product line of Ultra-High-Purity Deuterium generators to aliment anything related to the use of ultra-high purity 2H, close to the consumer, in an elegant compact bench table casing with a full-color touchscreen.

Based on a new technology of membrane separation and high-quality heavy water. After production, 2H is dried and purified by 2 different permeation techniques, allowing the dew point to reach the best level, followed by a final particular dryer to remove all the other elements.

2H is available 24/7 with constant purity >99.999%. Output pressure is regulated electronically and could be set from 0.5 to 7 bar. This process can be started on demand without a caustic solution.

A model with an outflow of 300 Nml/min 2H is available. Each instrument is equipped with high-performance communication interfaces, including USB and Ethernet. This allows you to create a very flexible gas network with local or central control, giving you the power to manage your operations with ease and precision.

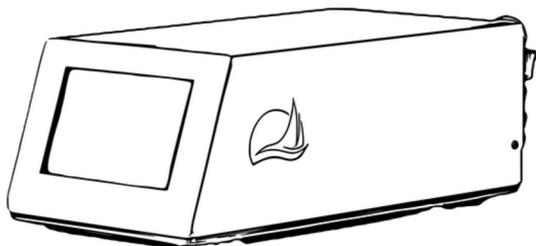


APPLICATION TYPES:

- Any Application involving High purity Deuterium

FEATURES:

- Reduces in operation costs—rapid ROI.
- No maintenance.
- 2H is available 24/7 at constant purity. No contamination.
- Independent source of Deuterium that does not require complex piping and can be easily moved around the laboratory.
- Remote control
- Our Deuterium source ensures 100% safe operation with features like an internal leak test, automatic shut-down, over-pressure valve, and current and voltage limits. You can trust in the safety of our product.
- No handling and storage of cumbersome gas cylinders. There is no cylinder rental fee.
- Extended autonomy with adaptable Heavy Water external glass tank.



DIHYDRO50L

Ultra-High-Purity Deuterium generator



MODELS	DIHYDRO50L-300
Max H2 Outflow @ 1013/20°C	2H: 0.300 LPM
H2 purity	>99.999%
Dew point	-50°C
Outlet Pressure	From 0.5 – 10 bar (7 – 145 psig)

Dimensions cm / in	L: 43cm / I: 23.5cm / H: 16cm L: 17 in / I: 9in / H: 6.2in
Net weight (kg/lbs)	12kg / 26lb

Water quality	High-purity Heavy Water
Water capacity	2L Glass external tank
Water consumption	5L Water generates about 10'000L 2H
Manual control	Through a 7" TFT-LCD color display with a touchpad located 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"> • RJ45 / USB/ RS485 • Through Ethernet 10/100 network • Logbook download by USB
H2 outlet fitting	Stainless steel 1/8" OD compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 150W
Ambient temperature	+5 to +35°C , non condensing

