

# LDP2000



## HIGH FLOW DUAL GETTERS GAS PURIFIER SERIES

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The LDP2000 series is a sub ppb purifier used for generating high purity calibration gas for online analyzers as well as generating high purity carrier gas for gas chromatograph system. Designed with its temperature controlled two steps of purification, this purifier series ensures to generate grade 9.0 (99.9999999%) purity at its outlet.

Its dual getters automatic switching allows this series to feed up multiple instruments with a single source without interruption.

### FEATURES

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- High flows up to 20LPM to feed multiple analytical instruments
- Two getters mounted in parallel with automatic switching via a network of pneumatic valves in case of purity level alarm to avoid flow interruption
- Realtime gas quality monitoring with a mini-PED (plasma emission detector) integrated in the device to monitor trace N<sub>2</sub> and H<sub>2</sub>O at the outlet of the purifier (Optional)
- Purity level and status alarms
- Regeneration mode pre-programmed and available
- Serial Port
- Diagnostic LCD and its keypad
- Indication LEDs
- Interchangeable getter

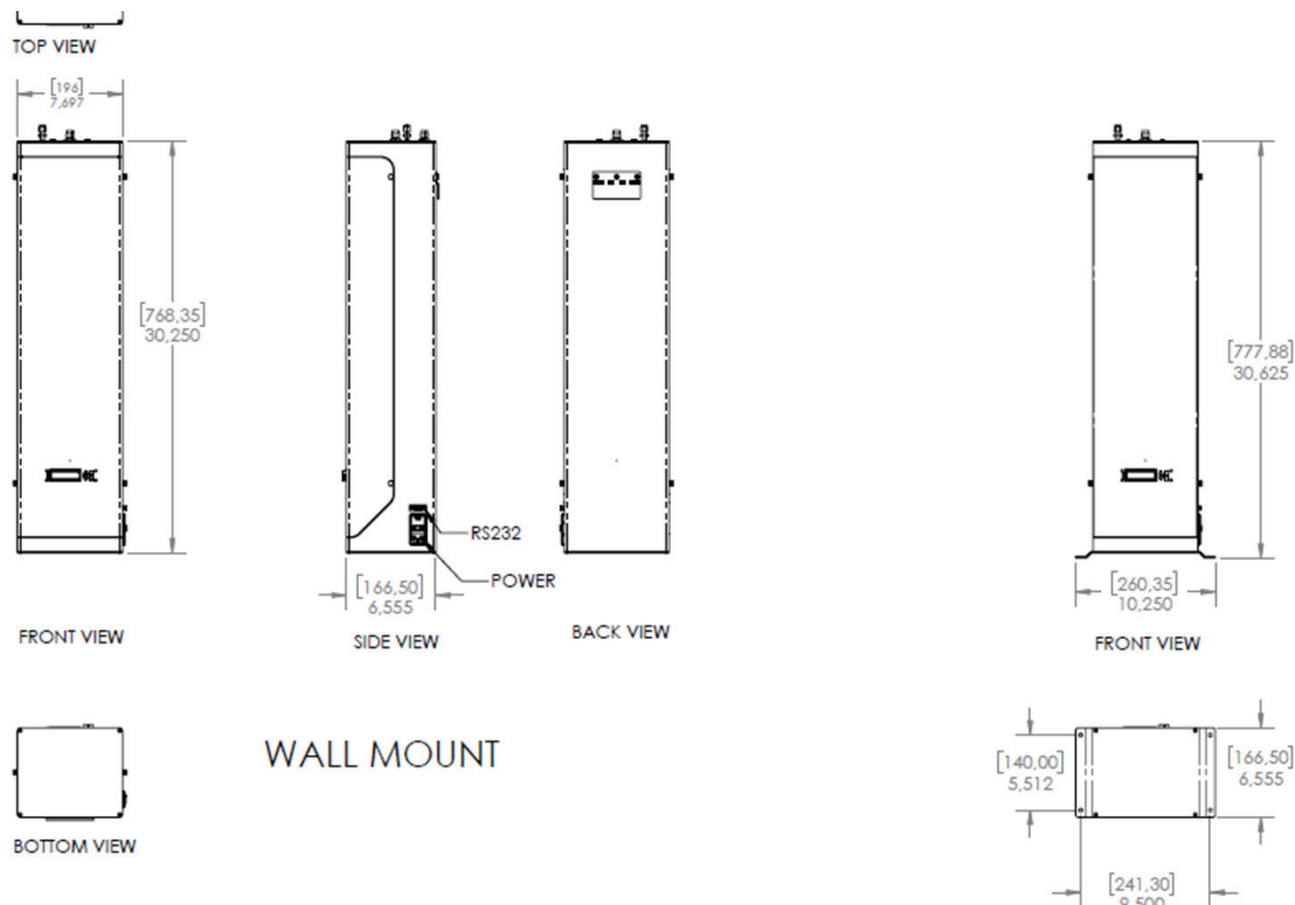
## SPECIFICATIONS

<b>GETTER TYPE</b>	Combination of different alloy of Zr/V/Fe/Pd with 2 beds of purification				
<b>GASES PURIFIED</b>	Noble gases	Nitrogen	Hydrogen	Carbon dioxide	Oxygen
<b>IMPURITIES REMOVED AT ROOM TEMPERATURE</b>	H2O,O2,CO,CO2,H2			H2O,O2,THC	H2,H2O,CO,CO2,CH4,NMHC
<b>IMPURITIES REMOVED WHEN DUAL BEDS ARE HEATED</b>	H2O,O2,CO,CO2,N2,NMHC, H2, CH4	H2O,O2,CO,CO2,NMHC, H2, CH4	H2O,O2,CO,CO2,N2, THC	n/a	n/a
<b>REGENERATION MODE AVAILABLE</b>	n/a	n/a	n/a	Yes	Yes
<b>REAL TIME MONITORING TRACE N2-H2O WITH PED AVAILABLE</b>	Yes	n/a	n/a	n/a	n/a
<b>IMPURITY LEVEL AT OUTLET</b>	<1ppb				
<b>FLOW</b>	2LPM nominal up to 20LPM maximum				
<b>GAS CONNECTIONS</b>	1/4" VCR				
<b>RECOMMENDED OPERATING INLET PRESSURE RANGE</b>	50psig-200psig (345kpag-1379kpag)				
<b>ELECTRICAL SUPPLY</b>	110/120VAC 50/60Hz or 220/240VAC 50/60Hz				
<b>POWER CONSUMPTION</b>	At Start up: 300 Watts max, at Normal operation: 200 Watts max				
<b>WEIGHT</b>	35LBS (15.9KGS)				

## CERTIFICATIONS

**CE & UKCA** In compliance with EMC directive IEC 61000-6-2: 2016 (immunity) & IEC 61000-6-4: 2018 (emission) for equipment used in industrial environment.

## DIMENSIONS



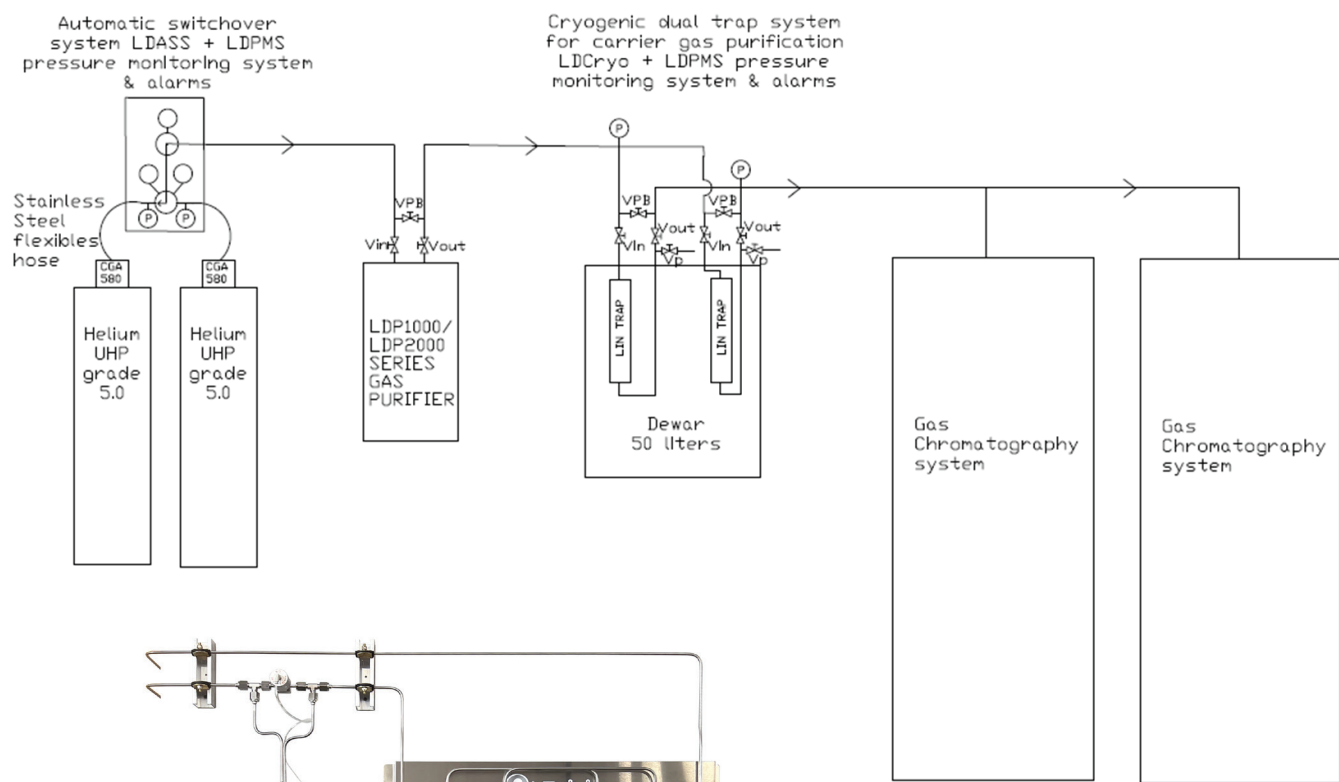
## TYPICAL INSTALLATION AND OPERATIONS

The LDP2000 dual getters large gas purifier system is designed to feed the carrier gas of multiple analytical instruments. Having only one purification device to feed multiple instruments simplify the operations and the maintenance/installation costs.

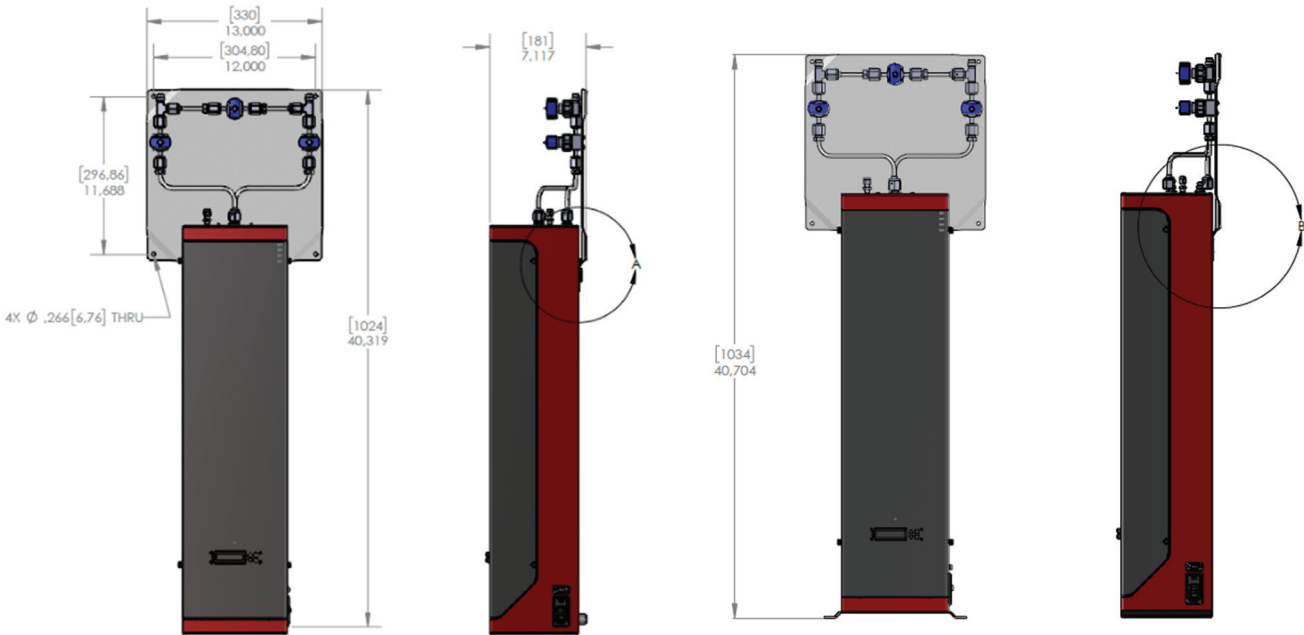
With our mini plasma emission detector mounted at the outlet of the purifier to trace ppb N<sub>2</sub> and H<sub>2</sub>O impurities in Helium or Argon mode, it offers the online monitoring of the real gas quality generated. If the purity level alarm is activated due to trace impurities measured, the device automatically switches to the spare getter to keep feeding the analytical instruments without interruption. The saturated getter is then cooled down and isolated to allow the replacement of it easily.

The device has a front LCD with keypad to navigate through its interface.

The schematic represents a typical gas chromatograph installation having multiple GCs. A switchover system (LDASS) with a pressure monitoring system (LDPMS) are used to secure the bottle pressure monitoring before the LDP2000 gas purifier. At the outlet of the LDP2000 gas purifier, our cryogenic purification system (LDCRYO) is mounted to remove the trace impurity Argon presents in Helium source. The combination of the 3 systems together is the best solution to feed high quality gas to any gas chromatography systems.



# MOUNTING PLATE OPTIONS



WALL MOUNT

SHELF MOUNT

# ORDERING INFORMATION

LDP2000	-XXX	-X	-X	-X	-XX	-XXXX
	Operating Voltage : <b>120</b> : 120VAC <b>240</b> : 240VAC	Gas type : <b>N</b> : Noble gases <b>N2</b> : Nitrogen version <b>H2</b> : Hydrogen <b>O2</b> : Oxygen <b>CO2</b> : Carbon dioxide	Gas Connection size : <b>4</b> : ¼"	Gas connection type : <b>C</b> : Compression <b>FS</b> : Face seal	Supporting plate: <b>WM</b> : Stainless Steel wall mount <b>SM</b> : Stainless Steel shelf mount	Supporting plate valves config : <b>BP4C</b> : bypass valve only compression ¼" <b>BPI04C</b> : bypass & in & out valves compression ¼" <b>BP4FS</b> : bypass valve only face seal ¼" <b>BPI04FS</b> : bypass & in & out valves Face Seal ¼"

