

CO₂ adsorption dryers



Clean, dry, CO₂ free purge gas for your laboratory at a fraction of the cost of traditional cylinders

Why buy purge gas in a high pressure cylinder when you can generate your own, more easily, reliably and cost effectively using a CO₂ adsorption dryer?

The nano L-Series¹ range of CO₂ adsorption dryers are small, simple and can be wall mounted right in your laboratory. Connect them to your existing compressed air system to deliver a continuous supply of clean, dry and CO₂ free purge gas without any of the hassle of traditional cylinders. Ideal for laboratory applications including FTIR purge, TOC purge, NMR, GC flame gas and laser purging, these systems eliminate the interruptions, recalibrations and safety concerns associated with high pressure Oxygen and Nitrogen cylinders.

Developed with the laboratory in mind, nano L¹ dryers require no bench space and the innovative exhaust silencing system ensures incredibly quiet operation.

Using proven pressure swing adsorption (PSA) technology, the units feature automatic regeneration and advanced purification cartridges with integral pre and post filtration providing totally clean, dry air with a CO₂ level of less than 1 ppm.

It's time to bring your purge gas supply into the 21st century. There is no better solution for your laboratory purge gas needs.



Applications Include:

FTIR Purge

TOC Purge

NMR

GC Flame Gas

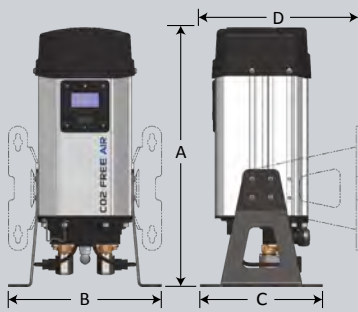
Laser Purge

nano-purification solutions
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Huntersville, NC 28078
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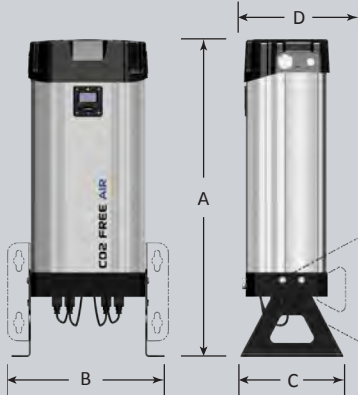
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Technical Specification

Model	Inlet & Outlet NPT(F)	Inlet Air Flow Required ⁽¹⁾		Outlet Gas Flow Produced ⁽¹⁾		Dimensions (inches)				Approx. Weight	Service Kit
		ft ³ /hr	L/min	ft ³ /hr	L/min	A	B	C	D	lbs	Part No.
NDC 015	¼" Swagelock	5.3	2.5	3.2	1.5	17	9	6	10	18.2	NDK 011
NDC 140	¼" Swagelock	53	25	32	15	17	9	6	10	18.2	NDK 021
NDC 300	¼" Swagelock	106	50	64	30	25	9	6	10	28.2	NDK 031
NDC 600	¼" Swagelock	212	100	127	60	43	9	13	10	42.5	NDK 051
NDC 900	G ¾"	318	150	191	90	29	17	12	13	88.2	NDK 061
NDC 1200	G ¾"	424	200	254	120	29	17	12	13	88.2	NDK 061



NDC 015 to 600



NDC 900 & 1200

outlet gas quality	standard	optional
maximum CO ₂ content	1 ppm	-
maximum pressure dew point	-100°F	-
maximum particulate size	1 micron	0.01 micron ⁽²⁾
maximum oil content	-	0.0003 ppm ⁽³⁾

specifications	
design operating pressure range	58 to 174 psig
recommended operating temperature range	35 to 70°F
power supply requirements	100 to 240 VAC, 50 or 60 Hz
maximum noise level (during depressurization)	60 dBa
manufacturing quality standards	ISO 9001 & CE
warranty	5 years

(1) At an inlet conditions of 100 psig and 70°F and up to 375 ppm CO₂. For all other conditions contact support@n-psi for sizing assistance.

(2) Requires addition of a nano M01 particulate after filter at the outlet.

(3) Requires addition of a nano M01 coalescing pre filter and an AC activated carbon filter at the inlet. Recommended for compressed air systems using an oil flooded compressor.

- provides a continuous flow of high quality purge gas
- no interruptions or pressure fluctuations
- eliminates cylinder changes
- reduces instrument recalibration
- lower cost than high pressure cylinders
- easy to install and maintain
- quiet and fully automatic operation
- can be wall mounted to save space
- integral pre and after filtration
- PLC controls with clear text display
- 100% function and performance tested
- backed by a 5 year warranty