

CO₂ Removal Adsorption Dryer

Features

- Generate your own supply of purge gas in-house via connection of dryer to your existing compressed air system to deliver clean, dry and CO₂ free purge gas.
- Constant supply of high-purity air eliminates interruptions for cylinder changes, minimises instrument recalibration, and removes the safety risks associated with high-pressure cylinders.
- Lower running costs vs cylinder rental or purchase
- Engineered for laboratories, the compact, wall-mountable design preserves bench space while the innovative exhaust silencer ensures exceptionally quiet operation.
- Advanced PSA system with automatic regeneration and multi-stage purification including snowstorm-filled cartridges, integrated 1.0-micron filtration, and a nano GFNB 0.01-micron pre-filter ensures consistently clean, dry air with CO₂ levels under 1 ppm.
- Laboratory applications include FTIR purge, TOC purge, NMR, GC flame gas and laser purging.



Easy to Maintain



Less than 15 minutes required for maintenance due to unique factory built filtration and adsorption cartridges.

Ease of Use



N-tech's icon-driven interface provides one-touch control, real-time data, seamless BMS connectivity, and automatic power-loss recovery (available on models NDC 900 and NDC 1200).

nano L¹: CO₂ Removal Adsorption Dryer

MODEL	INLET & OUTLET BSPP ⁽⁴⁾	INLET AIR FLOW ⁽¹⁾		OUTLET GAS FLOW ⁽¹⁾		DIMENSIONS (MM)			APPROX. WEIGHT KG	RECOMMENDED FILTRATION ⁽³⁾ PART NO.
		FT ³ /HR	L/MIN	FT ³ /HR	L/MIN	A	B	C		
NDC 015	3/8"	5.3	2.5	3.2	1.5	439	264	221	8.25	GFNB 0025 M1/M01/AC
NDC 050	3/8"	17.6	8.3	10.6	5.0	439	264	221	8.25	GFNB 0025 M1/M01/AC
NDC 140	3/8"	53	25	32	15	439	264	221	8.25	GFNB 0025 M1/M01/AC
NDC 300	3/8"	106	50	64	30	650	264	221	13.0	GFNB 0025 M1/M01/AC
NDC 600	3/8"	212	100	127	60	1189	264	330	19.0	GFNB 0025 M1/M01/AC
NDC 900	1"	318	150	191	90	764	427	288	45.0	GFNB 0050 M1/M01/AC
NDC 1200	1"	424	200	254	120	764	427	288	45.0	GFNB 0050 M1/M01/AC

SPECIFICATIONS	NDC 015 TO NDC 300	NDC 600 TO NDC 1200
Design operating pressure range (barg)	4 to 10	4 to 12
Recommended operating temperature range (°C)	1.5 to 20	
Design operating temperature range (°C)	40 to 50	
Power supply requirements	110 - 240V AC (50/60Hz)	
Maximum noise level (during depressurisation)	<70 dBA ⁽⁶⁾	
Manufacturing quality standards	ISO 9001:2015 & CE	

OUTLET GAS QUALITY	STANDARD	OPTIONAL
Maximum CO ₂ content (ppm)	1	-
Maximum pressure dew point (°C)	-70	-
Maximum particulate size (micron)	1	0.01 ⁽²⁾
Maximum oil content (ppm)	-	0.003 ⁽³⁾

PRESSURE CORRECTION FACTORS ⁽⁵⁾									
Inlet air pressure (barg)	4	5	6	7	8	9	10	11	12
Correction factor	0.63	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63

TEMPERATURE CORRECTION FACTORS ⁽⁶⁾					
Inlet air temperature (°C)	25	35	40	45	50
Correction factor	1.00	1.00	0.97	0.88	0.73

- (1) At inlet conditions of 7 barg and 20°C and up to 375 ppm CO₂.
- (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.
- (4) NDC 015 to NDC 600 have push to connect fittings on the inlet and outlet. All other models have BSPP threaded connections.
- (5) NDC 015 to NDC 300 rated to 10 barg.
- (6) NDC 900 to NDC 1200 - noise level is <80 dBA (during purge).
- (7) Technical specifications subject to change without notice. Direct inquiries to sales_uk@airandgassolutions.com or contact +44 (0) 191 497 7700.



Technical specifications subject to change without notice.
Publication Reference: LI-UK-EN-Version-000
©2026 Air & Gas Solutions LLC

nano
Experience. Customer. Service.

nano-purification solutions
www.nano-purification.com

United Kingdom
Gateshead, United Kingdom
Phone: +44 (0) 191 497 7700
Email: sales_uk@airandgassolutions.com

United States | Canada | United Kingdom | Singapore