

# CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 900N and NDC 1200N).

## nano L<sup>1</sup>: CO<sub>2</sub> Removal Adsorption Dryer

| MODEL     | INLET & OUTLET      | INLET AIR FLOW <sup>(1)</sup> |       | OUTLET GAS FLOW <sup>(1)</sup> |       | DIMENSIONS (MM) |     |     | APPROX. WEIGHT | RECOMMENDED FILTRATION <sup>(3)</sup> |
|-----------|---------------------|-------------------------------|-------|--------------------------------|-------|-----------------|-----|-----|----------------|---------------------------------------|
|           | BSPP <sup>(4)</sup> | FT <sup>3</sup> /HR           | L/MIN | FT <sup>3</sup> /HR            | L/MIN | A               | B   | C   | KG             | PART NO.                              |
| 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 900N  | 1"                  | 318                           | 150   | 191                            | 90    | 764             | 427 | 288 | 45.0           | GFNB 0050 M1/M01/AC                   |
| NDC 1200N | 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 1200N |
|-----------------------------------------------|-------------------------|----------------------|
| 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 <sup>(6)</sup>  |                      |
| Manufacturing quality standards               | ISO 9001:2015 & CE      |                      |

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

| PRESSURE CORRECTION FACTORS <sup>(5)</sup> |      |      |      |   |      |      |      |      |      |
|--------------------------------------------|------|------|------|---|------|------|------|------|------|
| 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 |

- (1) At inlet conditions of 7 barg and 20°C and up to 375 ppm CO<sub>2</sub>.
- (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 900N to NDC 1200N - noise level is <80 dBA (during purge).
- (7) Technical specifications subject to change without notice. Direct inquiries to sales\_uk@nano-purification.com or contact +44 (0) 191 497 7700.



Technical specifications subject to change without notice.  
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