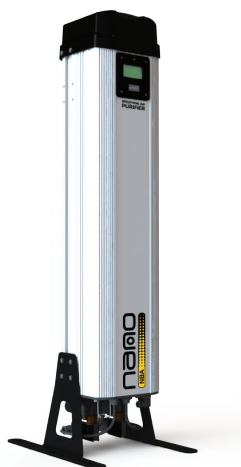


## NBA 050

19 scfm inlet / 14 scfm outlet breathing air purifier

nano NBA modular breathing air purification systems use the latest technology to provide clean, reliable and safe breathing air that meets or exceeds international standards. The NBA range are based on the tested and proven nano D<sup>1|2|3</sup> modular dryers but employ a unique split cartridge system to completely treat air prior to respiration. While many systems only remove particulate, oil, odor and taste, the NBA range also removes carbon monoxide (CO) and scrubs carbon dioxide (CO<sub>2</sub>) levels to exceed the most stringent standards.



| general characteristics                                                 |                                                                 |
|-------------------------------------------------------------------------|-----------------------------------------------------------------|
| inlet rated capacity (scfm) <sup>(1)</sup>                              | 19                                                              |
| outlet rated capacity (scfm) <sup>(1)</sup>                             | 14                                                              |
| absorbed power (kW)                                                     | 0.0360                                                          |
| power supply (V/Ph/Hz) <sup>(2)</sup>                                   | 100-240 VAC / 50 or 60 Hz                                       |
| operating limits                                                        |                                                                 |
| design operating pressure range for United States (psig) <sup>(3)</sup> | 87 to 232                                                       |
| recommended operating temperature range (°F)                            | 50 to 86                                                        |
| minimum design inlet temperature (°F)                                   | 35                                                              |
| maximum design inlet temperature (°F)                                   | 122                                                             |
| desiccant chambers                                                      |                                                                 |
| 4-layer mixed bed cartridge type                                        | activated alumina, molecular sieve, activated carbon & catalyst |
| replacement cartridge (part no)                                         | NBA SK 050                                                      |
| filtration                                                              |                                                                 |
| 0.01 micron pre filter                                                  | NF 0050 M01                                                     |
| 1.0 micron pre filter                                                   | NF 0050 M1                                                      |
| 1.0 micron after filter                                                 | integrated                                                      |
| controls/design                                                         |                                                                 |
| dryer design                                                            | PSA                                                             |
| controller type                                                         | PLC                                                             |
| NEMA rating                                                             | NEMA 1                                                          |
| air circuit                                                             |                                                                 |
| inlet air circuit connections (PTC) <sup>(4)</sup>                      | ½" - quantity 1                                                 |
| outlet air circuit connections (PTC) <sup>(4)</sup>                     | ½" - quantity 1                                                 |
| meets or exceeds breathing air specification                            |                                                                 |
| United States                                                           | CGA7.1 OSHA Grade D                                             |
| Canada                                                                  | CSA Z180.1-13                                                   |
| UK & Europe                                                             | EN12021                                                         |

| features                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• c-ETL-US certification</li> <li>• includes separate F<sup>1</sup> M01 and M1 grade high-efficiency coalescing filters (shipped loose) and a built in 1 micron after filter</li> <li>• patented combined filter &amp; desiccant cartridge</li> <li>• robust modular compact aluminum design</li> <li>• floor or wall mounted installation</li> <li>• reliable high-performance valves</li> </ul> | <ul style="list-style-type: none"> <li>• tower equalization for constant flow and pressure</li> <li>• designed for tough industrial settings</li> <li>• integrated compressor synchronization function</li> <li>• supplied with separate CO monitor with visual and audible alarms (shipped loose)</li> <li>• 4-layer mixed bed cartridge removes CO and scrubs CO<sub>2</sub></li> <li>• energy saving dew point control (optional)</li> </ul> |

(1) flows based on 100 psig and 86°F inlet temperature. For all other conditions, contact support@n-psi.com  
(2) optional 24 V DC  
(3) 232 psig (MAWP) as standard for USA; CRN certified up to 101 psig (MAWP) for Canada with exception of Alberta  
(4) push to connect fittings on the inlet and outlet

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united states

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united states

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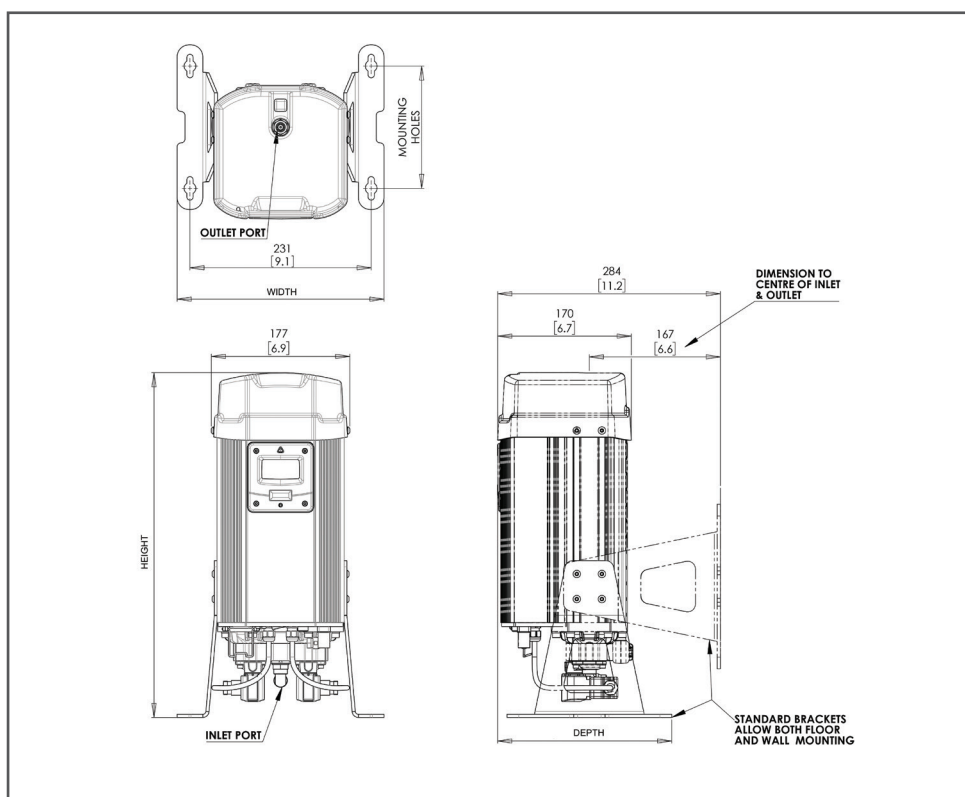
## technical specification

### advanced PLC features

- digital interface
- digital LED display
- outlet air dew point indication (with ES option)
- user programmable operating parameters
- alarm indication

### dimensions & weight

|                  |             |
|------------------|-------------|
| length ins (mm)  | 10.4 (264)  |
| depth ins (mm)   | 13.0 (330)  |
| height ins (mm)  | 46.8 (1190) |
| weight lbs (kgs) | 56.2 (25.5) |



experience