

# HEAT nano breathing air purifiers **B1**

6 to 486 scfm



These third party validated systems provide Grade-D breathing air to stringent international standards for breathing air including OSHA, CGA & CSA. When hazardous gases may be present, a modular breathing air purifier system is required.

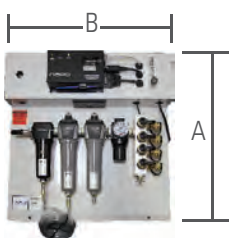
| model   | inlet connection |                    |     | outlet connection(s) |                         |     | inlet& outlet flows <sup>(5)</sup> |      | dimensions (inches) |       |      | approx. weight |
|---|------------------|--------------------|-----|----------------------|-------------------------|-----|------------------------------------|------|---------------------|-------|------|----------------|
|   | size             | type               | qty | size                 | type                    | qty | scfm                               | scfm | A                   | B     | C    | lbs            |
| <b>breathing air panels</b>                                 |                  |                    |     |                      |                         |     |                                    |      |                     |       |      |                |
| BAP 050 CP N  | ½"               | NPT(F)             | 1   | ¾"                   | NPT(F)                  | 4   | 50                                 | 50   | 23                  | 22    | 8.0  | 28             |
| BAP 050 CP H  | ½"               | NPT(F)             | 1   | ¼"                   | Hansen <sup>(1)</sup>   | 4   | 50                                 | 50   | 23                  | 22    | 8.0  | 28             |
| BAP 050 CP S  | ½"               | NPT(F)             | 1   | ¼"                   | Schrader <sup>(1)</sup> | 4   | 50                                 | 50   | 23                  | 22    | 8.0  | 28             |
| BAP 100 CP N  | ¾"               | NPT(F)             | 1   | ¾"                   | NPT(F)                  | 4   | 100                                | 100  | 23                  | 22    | 8.0  | 40             |
| BAP 100 CP H  | ¾"               | NPT(F)             | 1   | ¼"                   | Hansen <sup>(1)</sup>   | 4   | 100                                | 100  | 23                  | 22    | 8.0  | 40             |
| BAP 100 CP S  | ¾"               | NPT(F)             | 1   | ¼"                   | Schrader <sup>(1)</sup> | 4   | 100                                | 100  | 23                  | 22    | 8.0  | 40             |
| BAP 175 CP N  | ¾"               | NPT(F)             | 1   | ¾"                   | NPT(F)                  | 6   | 175                                | 175  | 23                  | 22    | 8.0  | 45             |
| BAP 175 CP H  | ¾"               | NPT(F)             | 1   | ¼"                   | Hansen <sup>(1)</sup>   | 6   | 175                                | 175  | 23                  | 22    | 8.0  | 45             |
| BAP 175 CP S  | ¾"               | NPT(F)             | 1   | ¼"                   | Schrader <sup>(1)</sup> | 6   | 175                                | 175  | 23                  | 22    | 8.0  | 45             |
| <b>portable breathing air cases</b>                         |                  |                    |     |                      |                         |     |                                    |      |                     |       |      |                |
| BAC 050 CP N  | ½"               | NPT(F)             | 1   | ¾"                   | NPT(F)                  | 4   | 50                                 | 50   | 17                  | 24    | 8.5  | 28             |
| BAC 050 CP H  | ½"               | NPT(F)             | 1   | ¼"                   | Hansen <sup>(1)</sup>   | 4   | 50                                 | 50   | 17                  | 24    | 8.5  | 28             |
| BAC 050 CP S  | ½"               | NPT(F)             | 1   | ¼"                   | Schrader <sup>(1)</sup> | 4   | 50                                 | 50   | 17                  | 24    | 8.5  | 28             |
| BAC 100 CP N  | ½"               | NPT(F)             | 1   | ¾"                   | NPT(F)                  | 4   | 100                                | 100  | 21                  | 27    | 9.0  | 40             |
| BAC 100 CP H  | ½"               | NPT(F)             | 1   | ¼"                   | Hansen <sup>(1)</sup>   | 4   | 100                                | 100  | 21                  | 27    | 9.0  | 40             |
| BAC 100 CP S  | ½"               | NPT(F)             | 1   | ¼"                   | Schrader <sup>(1)</sup> | 4   | 100                                | 100  | 21                  | 27    | 9.0  | 40             |
| <b>modular breathing air purifier systems<sup>(4)</sup></b> |                  |                    |     |                      |                         |     |                                    |      |                     |       |      |                |
| NBA 030   | 3/8"             | PTC <sup>(2)</sup> | 1   | 3/8"                 | PTC <sup>(2)</sup>      | 1   | 8                                  | 6    | 25.6                | 10.4  | 8.7  | 30             |
| NBA 050   | ½"               | PTC <sup>(2)</sup> | 1   | ½"                   | PTC <sup>(2)</sup>      | 1   | 19                                 | 14   | 46.8                | 10.4  | 13   | 56             |
| NBA 070   | 1"               | NPT(F)             | 1   | 1"                   | NPT(F)                  | 1   | 34                                 | 26   | 29.2                | 16.8  | 11.1 | 88             |
| NBA 090   | 1"               | NPT(F)             | 1   | 1"                   | NPT(F)                  | 1   | 54                                 | 41   | 36.3                | 16.8  | 11.1 | 119            |
| NBA 110   | 1"               | NPT(F)             | 1   | 1"                   | NPT(F)                  | 1   | 86                                 | 65   | 49.1                | 16.8  | 11.1 | 167            |
| NBA 120   | 1"               | NPT(F)             | 1   | 1"                   | NPT(F)                  | 1   | 108                                | 81   | 58.9                | 16.8  | 11.1 | 200            |
| NBA 2110  | 2"               | NPT(F)             | 1   | 2"                   | NPT(F)                  | 1   | 172                                | 129  | 51.5                | 15.75 | 24.3 | 264            |
| NBA 2120  | 2"               | NPT(F)             | 1   | 2"                   | NPT(F)                  | 1   | 216                                | 162  | 60.6                | 15.75 | 24.3 | 493            |
| NBA 3120  | 2"               | NPT(F)             | 1   | 2"                   | NPT(F)                  | 1   | 324                                | 243  | 60.6                | 15.75 | 31.1 | 661            |
| NBA 4120  | 2 ½"             | NPT(F)             | 1   | 2 ½"                 | NPT(F)                  | 1   | 432                                | 324  | 60.6                | 15.75 | 38.1 | 838            |
| NBA 6120  | 2 ½"             | NPT(F)             | 1   | 2 ½"                 | NPT(F)                  | 1   | 648                                | 486  | 60.6                | 15.75 | 50.8 | 1036           |

| specifications                               | BAP Panels     | BAC Cases      | NBA 030 to 050 | NBA 070 to 120 | NBA 2110 to 6120              |
|--|----------------|----------------|----------------|----------------|-------------------------------|
| operating pressure range (for United States) | 15 to 150 psig | 15 to 150 psig | 87 to 232 psig | 87 to 232 psig | 87 to 145 psig <sup>(3)</sup> |
| operating pressure range (for Canada)        | 15 to 150 psig | 15 to 150 psig | 87 to 101 psig | 87 to 232 psig | 87 to 145 psig <sup>(3)</sup> |
| recommended operating temp range             | 35 to 86°F     | 35 to 86°F     | 50 to 86°F     | 50 to 86°F     | 50 to 86°F                    |

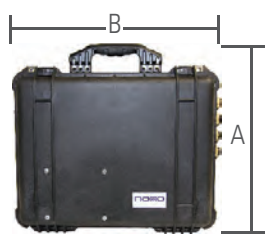
(1) female style coupling (2) PTC = push to connect fittings (3) contact support@n-psi.com for higher pressures or flows

(4) NBA modular breathing air purifier systems include: Grade M1 pre-filter and Grade M01 pre-filter (shipped loose), NBA purifier and CO monitor (shipped loose) (5) flow rates based on 100 psig and 86°F inlet temperature (6) tower pressure gauges as standard on NBA 070 and above. Applies to serial numbers 20-H-xxxx-xx and above

- contact support@n-psi.com for intrinsically safe, integrated CO & O<sub>2</sub> monitoring or any options or equipment not listed
- quick-disconnect fittings for use in compressed breathing air systems shall be selected to prevent accidental connection to other sources of compressed gas



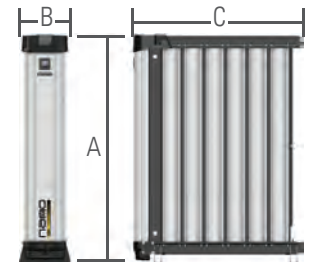
BAP 050 to BAP 175 CP



BAC 050 to BAC 100 CP



NBA 030 to NBA 120



NBA 2110 to NBA 6120

# B<sup>1</sup> breathing air purification modules

120 to 960 scfm



Use this free standing module to replace purifiers in existing breathing air systems that are difficult and costly to maintain or are no longer supported by the manufacturer. Reliable, small and easy to install, the nano NBM has cartridges that are easy to replace providing long term performance in a modern design.

| model   | service kit <sup>(2)</sup> |     | inlet & outlet<br>NPT(f) | rated flow <sup>(1)</sup> |                    | dimensions (inches) |      |      | approx. weight<br>lbs |
|---------|----------------------------|-----|--------------------------|---------------------------|--------------------|---------------------|------|------|-----------------------|
|         | part no.                   | qty |                          | scfm                      | Nm <sup>3</sup> /h | A                   | B    | C    |                       |
| NBM 120 | NBM SK 120                 | 1   | 1"                       | 120                       | 200                | 17.3                | 9.7  | 24.6 | 84                    |
| NBM 240 | NBM SK 240                 | 1   | 1"                       | 240                       | 400                | 17.3                | 15.0 | 31.7 | 100                   |
| NBM 480 | NBM SK 240                 | 2   | 2"                       | 480                       | 800                | 15.7                | 22.6 | 34.3 | 227                   |
| NBM 720 | NBM SK 240                 | 3   | 2"                       | 720                       | 1200               | 15.7                | 21.7 | 34.3 | 313                   |
| NBM 960 | NBM SK 240                 | 4   | 2 ½"                     | 960                       | 1600               | 15.7                | 28.3 | 34.3 | 397                   |

### specifications

|   |                         |
|---|-------------------------|
| maximum working pressure                | 174 psig                |
| recommended operating temperature range | 35 to 86°F              |
| estimated cartridge life                | 8000 hrs <sup>(3)</sup> |

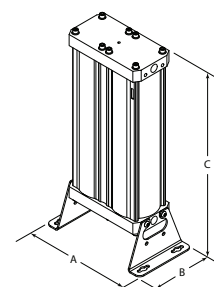
### inlet air quality requirements <sup>(4)</sup>

|                                 |            |
|---------------------------------|------------|
| maximum particulate size        | 0.5 micron |
| maximum pressure dew point      | -40°F pdp  |
| maximum oil content             | 0.01 ppm   |
| maximum CO content              | 50 ppm     |
| maximum CO <sub>2</sub> content | 500 ppm    |

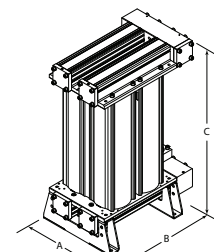
### performance

|                               |       |
|-------------------------------|-------|
| maximum outlet air CO content | 5 ppm |
|-------------------------------|-------|

- (1) at inlet conditions of 100 psig and 77°F, and 100°F ambient temperature. For all other operating conditions contact support@n-psi.com for sizing assistance
- (2) includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings
- (3) provided as an estimate only. Cartridges must be replaced as required to maintain adequate breathing air quality in accordance with all applicable codes and regulations
- (4) if the air doesn't meet these conditions, contact support @n-psi.com to confirm the additional treatment required
- (5) allows the CO monitor to be directly mounted to the NBM module. See image below



NBM 120 & NBM 240



NBM 480 to NBM 960

Do you have an older breathing air system that is costly or difficult to maintain or is no longer supported by the manufacturer? Replace your existing breathing air purifier with a nano NBM module. It's easy to maintain and will keep you and your employees safe.



NBM 960 with optional CO monitor & mounting bracket shown