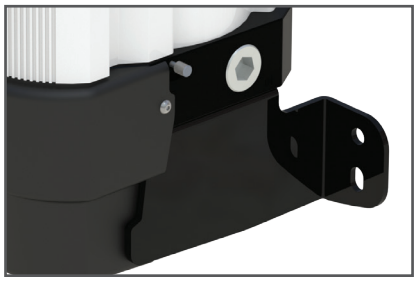
# ultra-high purity pneumatic compressed air dryers

## FEATURES

- pneumatically-controlled to operate safely and efficiently in the most challenging environments
- suitable for use in any classified location where NEMA 7 explosion-proof controls are necessary or remote locations where power is either limited or unavailable
- delivers compressed air purity in accordance with ISO 8573.1:2010, Class 2 dirt (1 micron) and Class 2 water (-40°F pdp) with pneumatic controls
- features lower life cycle costs, low energy costs and simplified maintenance
- 0.01 micron pre filter and integral 1.0 micron after filter included as standard
- quiet depressurization from unique exhaust air silencers significantly reduce noise levels
- 100% tested for leaks, proper operation and dew point performance
- compact design allows installation in spaces too small for a traditional dryer
- convenient service kits for easy and efficient maintenance
- applications include oil & gas rigs, land-based drilling rigs, lumber mills and explosion-proof areas

### optimum flexibility

easy to install and ready to use, D$^2$ units can be either floor or wall mounted [(1)] for optimum installation flexibility



### easy to maintain

D$^2$ units contain patented, combined filter and snowstorm filled desiccant cartridges; servicing in less than 15 minutes

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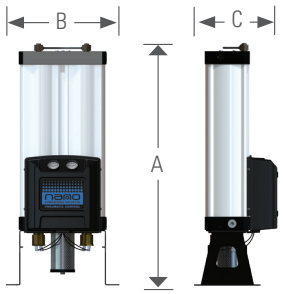
# SPECIFICATIONS

| model | inlet & outlet [1] | rated flow [2] | | dimensions (inches) | | | approx. weight |
|---|---|---|---|---|---|---|---|
| | NPT (f) | scfm | Nm³/h | A | B | C | lbs |
| D² | | | | | | | |
| NDL 060-F-PNU | 1" | 34 | 58 | 28.9 | 16.7 | 12.4 | 97 |
| NDL 070-F-PNU | 1" | 41 | 70 | 28.9 | 16.7 | 12.4 | 97 |
| NDL 080-F-PNU | 1" | 53 | 90 | 36.0 | 16.7 | 12.4 | 119 |
| NDL 090-F-PNU | 1" | 66 | 112 | 36.0 | 16.7 | 12.4 | 119 |
| NDL 100-F-PNU | 1" | 88 | 150 | 42.9 | 16.7 | 12.4 | 141 |
| NDL 110-F-PNU | 1" | 106 | 180 | 48.8 | 16.7 | 12.4 | 169 |
| NDL 120-F-PNU | 1" | 132 | 224 | 58.6 | 16.7 | 12.4 | 196 |
| NDL 130-F-PNU | 1" | 177 | 301 | 72.4 | 16.7 | 12.4 | 240 |
| D³ | | | | | | | |
| NDL 2110-F-PNU | 2" | 212 | 360 | 49.1 | 15.7 | 25.6 | 366 |
| NDL 2120-F-PNU | 2" | 276 | 469 | 59.0 | 15.7 | 25.6 | 441 |
| NDL 2130-F-PNU | 2" | 400 | 680 | 72.7 | 15.7 | 25.6 | 547 |
| NDL 3130-F-PNU | 2" | 560 | 951 | 72.7 | 15.7 | 32.2 | 778 |
| NDL 4130-F-PNU | 2 ½" | 750 | 1274 | 72.7 | 15.7 | 38.8 | 1010 |
| NDL 6120-F-PNU | 2 ½" | 828 | 1407 | 59.0 | 15.7 | 52.0 | 1155 |
| NDL 6130-F-PNU | 2 ½" | 1110 | 1886 | 72.7 | 15.7 | 52.0 | 1473 |

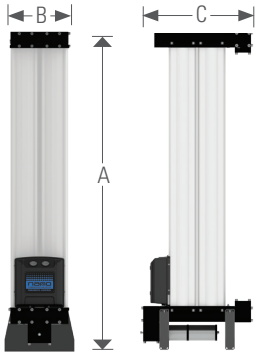
| specifications | standard | optional |
|---|---|---|
| maximum particle size (ISO class) [3] | class 2 (1 micron) | class 1 (0.01 micron) [4] |
| maximum water content (ISO class) [3] | class 2 (-40°F pdp) | - |
| minimum operating pressure | 58 psig | - |
| maximum operating pressure | 145 / 232 psig [5] | - |
| recommended operating temperature range | 34 to 100°F | - |
| design operating temperature range | 34 to 122°F | - |

| pressure correction factors [6] | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| inlet air pressure (psig) | 60 | 75 | 90 | 100 | 115 | 130 | 145 | 160 | 175 | 190 | 205 | 232 |
| correction factor | 0.63 | 0.75 | 0.88 | 1.00 | 1.13 | 1.25 | 1.38 | 1.50 | 1.63 | 1.75 | 1.88 | 2.13 |

| temperature correction factors [6] | | | | | |
|---|---|---|---|---|---|
| inlet air temperature (°F) | 75 | 100 | 104 | 113 | 122 |
| correction factor | 1.00 | 0.96 | 0.96 | 0.88 | 0.73 |



NDL 060-F-PNU to NDL 130-F-PNU



NDL 2110-F-PNU to NDL 6130-F-PNU

(1) NPT(F) threaded connections on the inlet and outlet
(2) at inlet conditions of 100 psig and 100°F and a -40°F outlet pressure dew point. For all other operating conditions refer to the correction factors above
(3) per ISO 8573.1:2010 (E)
(4) with separate M01 grade after filter
(5) maximum operating pressure of 232 psig for NDL 060-F-PNU to NDL 130-F-PNU and 145 psig for NDL 2110-F-PNU to NDL 6130-F-PNU
(6) to be used as a rough guide only. All applications should be confirmed by nano. Contact support@n-psi.com
(7) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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