

NDL 050-F

100-240 VAC/50 or 60 Hz - 24 scfm desiccant air dryer

The nano D^{1|2|3} modular air dryer provides clean dry air for a wide range of industrial applications. These dryers use the pressure swing adsorption principle in a modular design to dehydrate and purify your compressed air in a simple, efficient and compact package. With digital PLC controls that manage energy consumption and provide dew point monitoring, the D^{1|2|3} modular desiccant air dryer provides substantial energy savings under various seasonal conditions for critical applications.



general characteristics

rated capacity (scfm)*	24
regeneration air (scfm)*	4.8
absorbed power (kW)	0.0264
power supply (V/Ph/Hz)	100-240 VAC / 50 or 60 Hz ⁽¹⁾

operating limits

design operating pressure range (psig)	58 - 232 ⁽²⁾
recommended operating temperature range (°F)	34 - 100
minimum/maximum ambient temperature (°F)	34 - 122
maximum inlet temperature (°F)	122

desiccant chambers

desiccant type	activated alumina
desiccant cartridges with integrated after filter (kit no)	NDK 050

controls/design

dryer design	PSA
controller type	PLC
NEMA rating	NEMA 1

air circuit

air circuit connections (PTC)	1/2" ⁽³⁾
-------------------------------	---------------------

ISO class

ISO air quality class (water content)	class 2 (-40°F pdp)
---------------------------------------	---------------------

*in compliance with CAGI (ADF 100) / NFPA (class H): inlet temperature 100°F, ambient temperature 100°F, inlet pressure 100 psig, pressure dew point -40°F (-94°F optional). For all other conditions, contact support@n-psi.com

features

- c-ETL-US certification
- includes a separate F1 M01 grade pre filter (shipped loose) and a built in 1 micron after filter
- patented combined filter & desiccant cartridge; no after filter required
- advanced PLC controlled operation
- built in reliability with a 2-year warranty
- robust modular compact aluminum design
- energy saving dew point control (optional)
- floor or wall mounted installation
- reliable high-performance valves
- tower equalization for constant flow and pressure
- designed for tough industrial settings
- integrated compressor synchronization function

advanced PLC features

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

(1) optional 24 V DC

(2) NDL 010 to NDL 050 are 232 psig (MAWP) as standard for USA; CRN certified up to 101 psig (MAWP) for Canada with exception of Alberta

(3) NDL 010 to NDL 050 have push to connect fittings on the inlet and outlet. All other models have NPT(F) threaded connections

nano-purification solutions llc
charlotte, north carolina
united states

nano-purification solutions penn
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions ltd
gateshead, tyne and wear
united kingdom

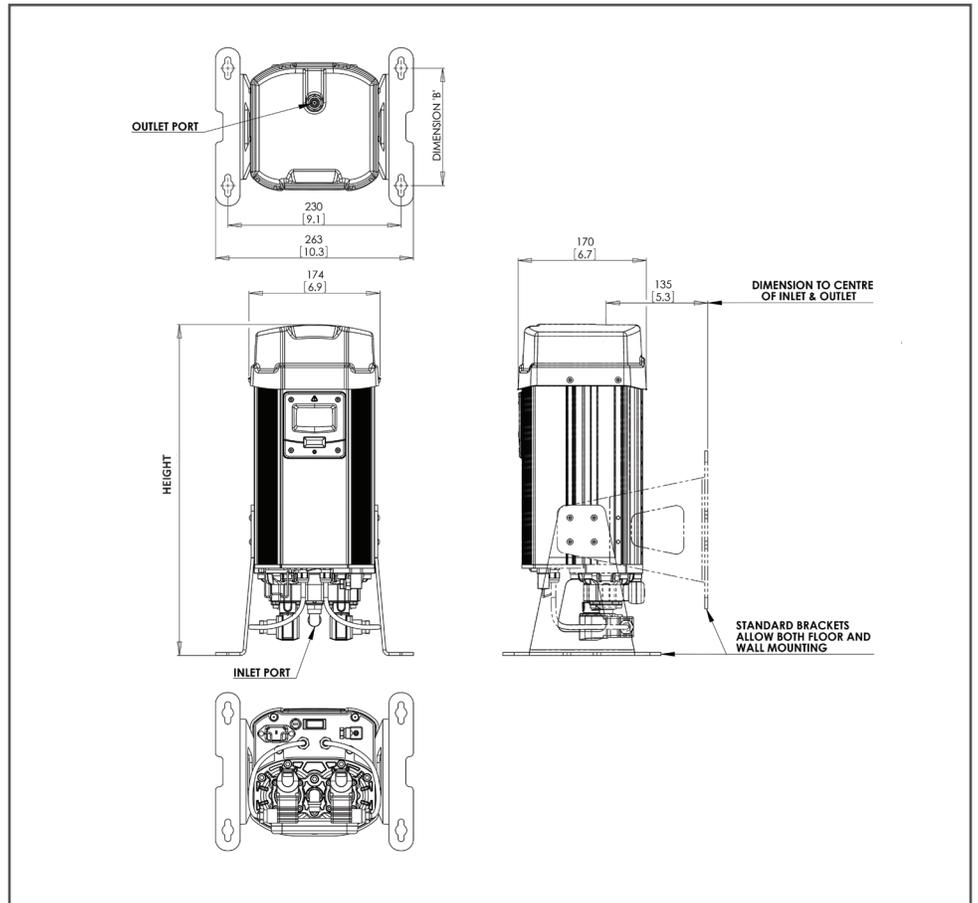
nano-purification solutions GmbH
krefeld, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

technical specification

dimensions & weight

length ins (mm)	10.3 (263)
depth ins (mm)	6.7 (170)
height ins (mm)	47.1 (1197)
weight lbs (kgs)	56.2 (25.5)



experience