nano D[1|2|3]: Modular Low Dew Point Desiccant Air Dryers

NDL 090N LDP

100-240 VAC/50 or 60 Hz - 46 scfm Desiccant Air Dryer



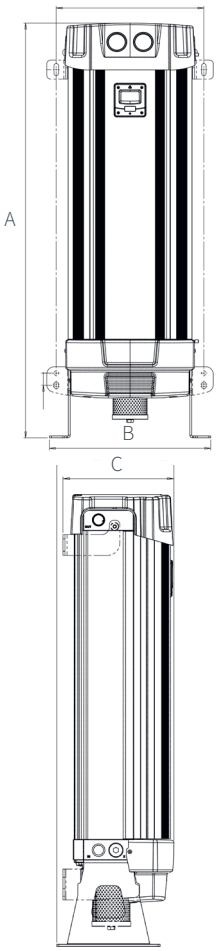
The nano D² modular low dew point air dryer provides clean dry air for a wide range of industrial applications. These dryers use the pressure swing adsorption principle in a modular design to dehydrate and purify your compressed air in a simple, efficient and compact package. With digital PLC controls that manage energy consumption and provide dew point monitoring, the D² modular low dew point desiccant air dryer provides substantial energy savings under various seasonal conditions for critical applications.

GENERAL CHARACTERISTICS	
Rated capacity (scfm) (1)	46
Regeneration air (scfm)	13.2
Absorbed power (kW)	0.0360
Power supply (V/Ph/Hz) (2)	100 to 240 /50 or 60
OPERATING LIMITS	
Design operating pressure range (psig)	58 to 232
Design operating temperature range (°F)	35 to 100
Minimum/maximum ambient temperature (°F)	35 to 122
Maximum inlet temperature (°F)	not to exceed 85
DESICCANT CHAMBERS	
Desiccant type	13X molecular sieve
Desiccant cartridges with integrated afterfilter (kit no)	NDK 090 LDP
CONTROLS/ DESIGN	
Dryer design	PSA
Controller type (PLC)	programmable logic controller
NEMA rating	NEMA 1
AIR CIRCUIT	
Air circuit connections (NPT)	1”
ISO CLASS	
ISO air quality class (water content)	class 1 (-94°F pdp)

(1) In compliance with CAGI (ADF 100) / NFPA (class H): inlet temperature 85°F, ambient temperature 100°F, inlet pressure 100 psig, pressure dew point -94°F. For all other conditions, contact canadasupport@airandgassolutions.com.
(2) Optional 24 V DC

Dimensions & Weight

DIMENSIONS AND WEIGHT	
A (ins)	36.3
B (ins)	16.8
C (ins)	11.1
Weight (lbs)	119



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Features

- C-ETL-US certification
- Includes a built in 1 micron afterfilter.
- Patented combined filter & desiccant cartridge; no afterfilter required
- Advanced PLC controlled operation
- Built in reliability with a 2-year warranty
- Energy saving (ES) dew point control (optional)
- Floor or wall mounted (optional wall mounting brackets available) installation
- Reliable high-performance valves
- Tower pressure gauges
- Tower equalization for constant flow and pressure
- Designed for tough industrial settings.
- Integrated compressor synchronization function
- Alarm indication

Advanced PLC Features

- Energy-aware control with PDP switching (Optional sensor)
- Continuous pressure and temperature monitoring
- Clear alarms, event logs, and guided diagnostics
- Intuitive HMI with quick start/stop
- Modbus TCP connectivity
- Industrial protection (up to IP65/NEMA 4, panel-mounted with gasket)
- Drop-in retrofit or factory-fit
- Service-friendly wiring harness
- Audit-ready data logging
- Interoperability with companion equipment

Technical specifications subject to change without notice.
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