



nano D<sup>5</sup>: Compressed Air Dryers

## HL3000

### 3000 scfm Desiccant Air Dryer

Manufactured in our Maryville, Tennessee facility, the nano D<sup>5</sup> HL heatless desiccant air dryers employ expanded dry purge air to regenerate the offline bed. These straightforward yet highly effective dryers provide a continuous supply of clean, dry air within a dependable and cost-efficient framework.

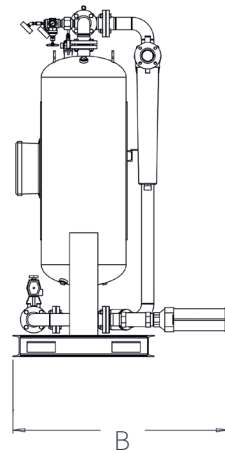
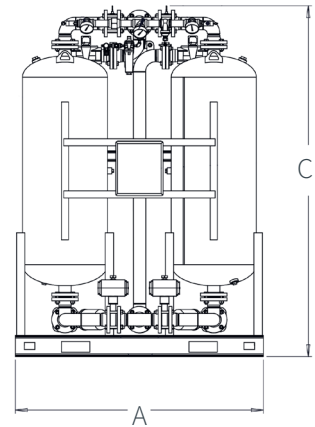


| GENERAL CHARACTERISTICS                                   |                           |
|-----------------------------------------------------------|---------------------------|
| Rated capacity (scfm) <sup>(1)</sup>                      | 3000                      |
| Regeneration air (scfm)                                   | 450                       |
| Absorbed power (kW)                                       | 0.35                      |
| OPERATING LIMITS                                          |                           |
| Minimum / design / maximum operating pressure (psig)      | 60 / 100 / 150            |
| Minimum / design / maximum ambient temperature range (°F) | 38 / 100 / 120            |
| Minimum / design / maximum inlet temperature (°F)         | 38 / 100 / 120            |
| DESICCANT CHAMBERS                                        |                           |
| Desiccant type                                            | activated alumina         |
| Desiccant weight per tower (lbs)                          | 1500                      |
| CONTROLS / DESIGN                                         |                           |
| Dryer design                                              | PSA heatless regenerative |
| Controller type                                           | advanced PLC              |
| Power supply (V/Ph/Hz)                                    | 115/1/60                  |
| NEMA rating                                               | NEMA 4X                   |
| AIR CIRCUIT                                               |                           |
| Air circuit connections (ANSI Flg)                        | 6"                        |
| Filters                                                   | NFZ3500 (M01/M1)          |
| 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. For all other conditions, contact [support@nano-purification.com](mailto:support@nano-purification.com).

### Dimensions & Weight

| DIMENSIONS AND WEIGHT |       |
|-----------------------|-------|
| A (ins)               | 113.8 |
| B (ins)               | 65.3  |
| C (ins)               | 120.8 |
| Weight (lbs)          | 6500  |



## D<sup>5</sup>: Twin Tower Heatless Desiccant Air Dryers

### Features

- UL/cUL compliant
- ASME U-stamped pressure vessels
- CRN pressure vessels up to HL1500
- Mounted 0.01 micron GFN prefilter and 1 micron GFN after filter included
- Adjustable purge valve
- Low noise exhaust mufflers
- NEMA 4X control panel
- High performance valves
- Made in the USA activated alumina desiccant
- Lifting lugs and/or fork lift pockets on all products
- Robust and reliable **Basic PLC** control HL0070 to HL0750
  - 'Power On', 'Hours Run' and 'Service Required Indicators'.
  - Memory retention built into the PLC enables the controller to pick up where it left off in the drying cycle, ensuring consistently clean and dry air downstream.
  - Compressor synchronization is a standard energy saving feature on HL range which starts and stops the dryer with a signal from the compressor to eliminate purge loss when drying is not required.
- **Advanced Allen-Bradley PLC** controller HL1000 to HL3000
  - Digital interface
  - Digital LED display
  - Outlet air dew point indication (with ES option)
  - Compressor synchronization is a standard energy saving feature on HL range which starts and stops the dryer.
  - User programmable operating parameters
  - Alarm indication

### Optional Upgrades

- Integral energy saving (ES) outlet dew point control
- Valved filter and dryer by-passes
- 230V or 12V power supply
- Stainless steel control air tubing
- Low ambient package for operation down to +20°F
- Corrosion resistant paint and material design
- Advanced Allen-Bradley PLC controller for HL0070 to HL0750 models

Technical specifications subject to change without notice.  
Publication Reference: D5-HL3000-US-EN-Version-000  
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**nano**

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