



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

# EH 3000

## 3000 scfm Desiccant Air Dryer

The nano EH externally heated twin tower desiccant air dryer provides clean dry air for a wide range of industrial applications. These dryers use an electric heater to heat a small amount of dry purge air during regeneration to reduce the amount of purge air required, increase efficiency and reduce the running cost of your compressed air network. For consistent performance and cost-effective operation, these dryers are an excellent choice.



GENERAL CHARACTERISTICS	
Rated capacity (scfm) <sup>(1)</sup>	3000
Regeneration air (scfm) <sup>(2)</sup>	240
Heater (kW)	45
Absorbed power (FLA)	71.3
Half cycle time (hrs)	4
Dryer pressure drop (psi)	5
OPERATING LIMITS	
Minimum / design / maximum operating pressure range (psig)	70 / 100 / 135
Minimum / design / maximum ambient temperature range (°F) <sup>(3)</sup>	38 / 100 / 120
Minimum / design / maximum inlet temperature (°F)	38 / 100 / 120
DESICCANT CHAMBERS	
Desiccant type	¾" activated alumina
Desiccant weight per tower (lbs)	1500
Design standard	ASME (U) / CRN
CONTROLS / DESIGN	
Dryer design	externally heated
Premium controller type (upgrade)	Allen-Bradley™ PLC
Remote communications available with premium controller	Ethernet/Modbus
Power supply (V/Ph/Hz) <sup>(4)</sup>	460 / 3 / 60
NEMA rating	NEMA 4
AIR CIRCUIT	
In/outlet connection <sup>(6)</sup>	6" FLG
Filters	NFZ3000 (M01/M1)
Condensate drain	zero air loss
ISO CLASS	
ISO air quality class (water content)	class 2 (-40°F pdp)

(1) In compliance with CAGI ADF 100 specifications for compressed air dryers: Inlet temperature: 100°F, ambient temperature: 100°F, inlet pressure dew point: -40°F. For all other conditions refer to the correction factors or contact support@airandgassolutions.com

(2) Based on 50 psig purge pressure

(3) Low Ambient +20°F is a standard option

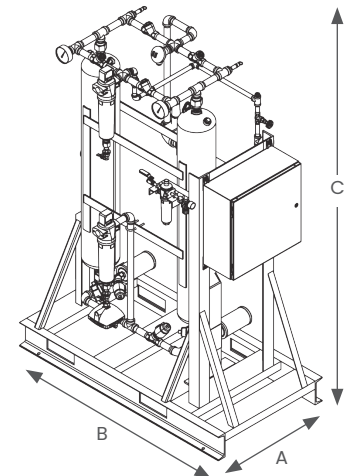
(4) 575/3/60 is a standard option

(5) NEMA 4X is a standard option

(6) All units with 3" piping and above will be ANSI welded pipe

## Dimensions & Weight

DIMENSIONS AND WEIGHT	
A (ins)	114
B (ins)	92
C (ins)	121
Weight (lbs)	11,500



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

### Standard Features

- Made in the USA
- Rugged steel frame
- UL/cUL compliant
- ASME U-stamped pressure vessels
- Dew point monitoring and control
- Low noise exhaust mufflers
- Failure-to-shift
- Mounted pre and after filters included
- Allen-Bradley™ PLC controller
- NEMA 4
- Adjustable purge
- Heatless backup mode

Technical specifications subject to change without notice.  
Publication Reference: EH3000-US-EN-Version-000  
©2025 Air & Gas Solutions LLC



**nano**  
Experience. Customer. Service.

nano-purification solutions  
[www.nano-purification.com](http://www.nano-purification.com)

United States  
Charlotte, North Carolina  
Phone: +1 704 897 2182  
Email: [support@airandgassolutions.com](mailto:support@airandgassolutions.com)

United States | Canada | United Kingdom | Germany | Singapore