



## AEHD 1600

460VAC/60Hz - 1600 scfm desiccant air dryer

The nano aircel brand twin tower externally heated 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 for regeneration to increase efficiency and reduce the amount of purge air required. For consistent performance and cost-effective operation, these dryers are an excellent choice.



general characteristics	
rated capacity (scfm) <sup>(1)</sup>	1600
regeneration air (scfm) <sup>(2)</sup>	128
half cycle time (hours)	4
dryer pressure drop (psid)	5
operating limits	
min/design/max operating pressure (psig)	60 / 100 / 150
outlet dew point at design conditions (°F)	-40
min/design/max inlet temperature (°F)	38 / 100 / 120
system components	
inlet air filter	coalescing filter with 0.01 µm element
after filter	high temp particulate filter with 1 µm element
condensate drain	zero-loss electronic drain
inlet valve(s)	butterfly
purge exhaust valves	butterfly
desiccant chambers	
desiccant type	activated alumina
desiccant weight per vessel (lbs)	797
desiccant vessels	ASME Section VIII Division 1, "U" stamped, 200 PSIG at 450 °F
controls/design	
dryer design	PSA externally heated regenerative dryer
power supply (V/Ph/Hz)	460/3/60
full load amps	34.4
controller type	programmable logic controller (PLC) in NEMA 4 enclosure
energy management system	dew point control standard
heater absorbed power (kW)	27
insulation <sup>(3)</sup>	heater shell and hot air piping protected
air circuit	
air circuit connections (Flg)	4"
ISO class	
ISO air quality class (water content)	class 2 (-40°F pdp)

(1) 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

(2) based on a timed cycle at full flow

(3) vessels by customer

(4) specifications subject to change without notice

nano-purification solutions  
Charlotte, North Carolina  
United States

nano-purification solutions TN  
Maryville, Tennessee  
United States

nano-purification solutions Canada  
St. Catharines, Ontario  
Canada

nano-purification solutions Ltd.  
Gateshead, Tyne and Wear  
United Kingdom

nano-purification solutions GmbH  
Erkelenz, Germany

nano-purification solutions Asia Pacific  
Singapore

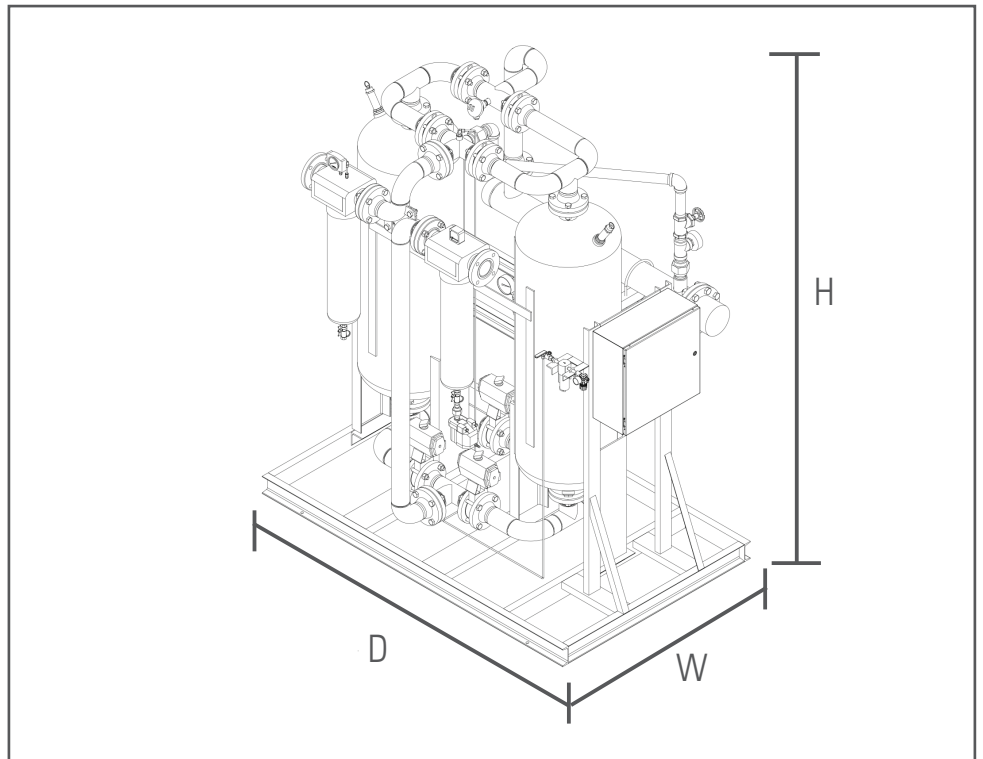
Tel: 704.897.2182  
Fax: 704.897.2183  
Email: support@nano-purification.com

# technical specification

## dimensions & weight

width (in)	73
depth (in)	85
height (in)	99
weight* (lbs)	7200

\*desiccant is included in total weight. Units 2500 scfm and above desiccant is shipped loose



experience

## features

- made in the USA
- rugged steel frame
- UL/cUL compliant
- ASME U-stamped pressure vessels
- dew point control
- pre and after filters included as standard
- Allen-Bradley PLC controller
- NEMA 4