



ABP 1600

460VAC/60Hz -1600 scfm desiccant air dryer

The nano aircel brand twin tower blower purge desiccant air dryer provides clean dry air for a wide range of industrial applications. These dryers use a blower and an external heater to provide heated ambient air for regeneration. With purge air usage less than 2% (averaged over cycle) and a zero purge option, these dryers offer the lowest cost of operation for most applications.



general characteristics

rated capacity (scfm) ⁽¹⁾	1600
regeneration air (scfm) ⁽²⁾	33
half cycle time (hours)	4
dryer pressure drop (psid)	5

operating limits

min/design/max operating pressure range (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)	1150
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	61.5
controller type	programmable logic controller (PLC) in NEMA 4 enclosure
energy management system	dew point control standard
blower type	vortex
regeneration blower (hp)	10
heater absorbed power (kW)	37
insulation ⁽³⁾	heater shell and hot air piping protected

air circuit

air circuit connections (Flg)	4"
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ISO class

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

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Charlotte, North Carolina
United States

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Maryville, Tennessee
United States

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St. Catharines, Ontario
Canada

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

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Erkelenz, Germany

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Singapore

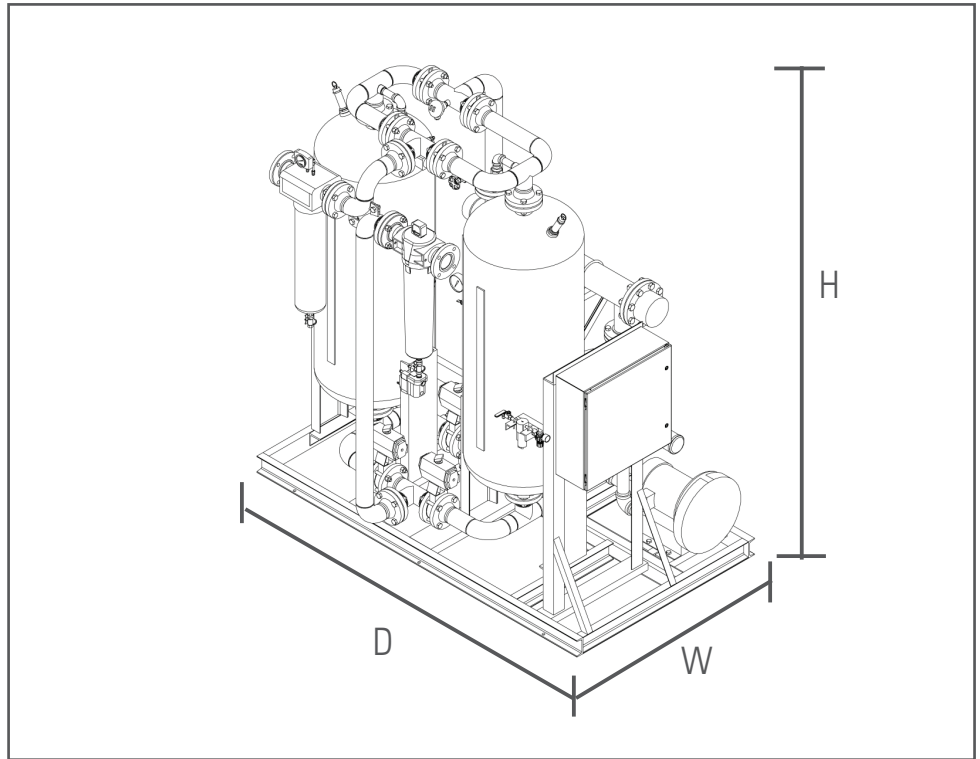
Tel: 704.897.2182
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Email: support@nano-purification.com

technical specification

dimensions & weight

width (in)	81
depth (in)	106
height (in)	107
weight* (lbs)	7500

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



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