



ABP 1400

460VAC/60Hz -1400 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⁾	1400
regeneration air (scfm) ⁽²⁾	29
half cycle time (hours)	4
dryer pressure drop (psid)	7
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	55.9
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)	32.5
insulation ⁽³⁾	heater shell and hot air piping protected
air circuit	
air circuit connections (Flg)	3"
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

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Charlotte, North Carolina
United States

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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

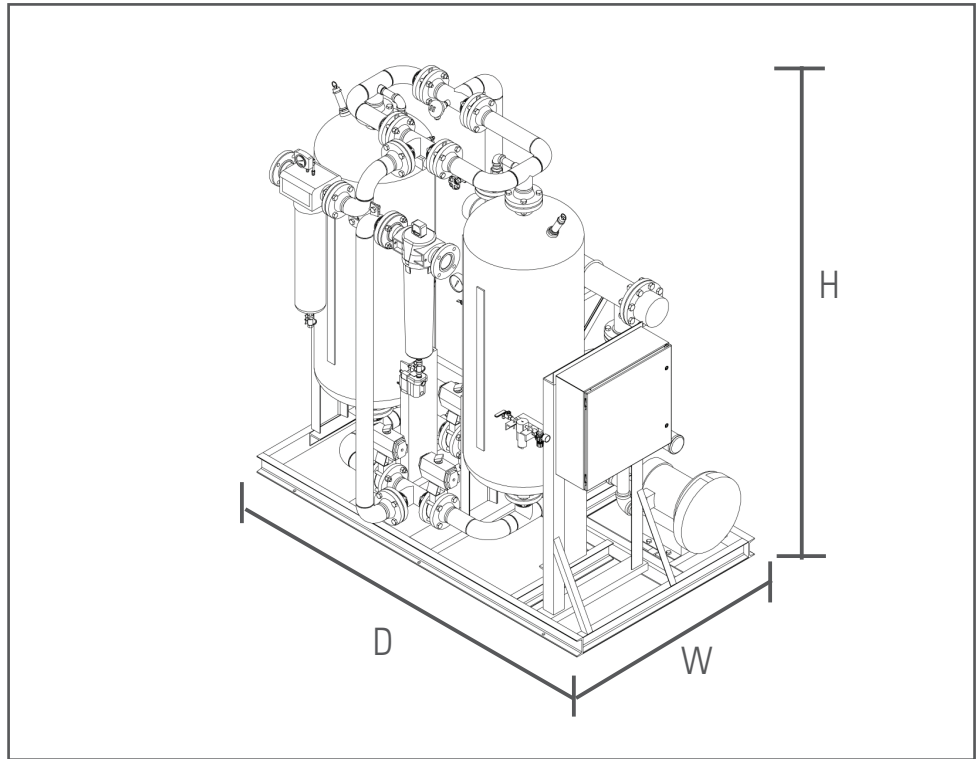
Tel: 704.897.2182
Fax: 704.897.2183
Email: support@nano-purification.com

technical specification

dimensions & weight

width (in)	70
depth (in)	105
height (in)	106
weight* (lbs)	6800

*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

experience