

460VAC/60Hz -3000 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)	3000		
regeneration air (scfm) (2)	61		
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)	1928		
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	102.4		
controller type	programmable logic controller (PLC) in NEMA 4 enclosure		
energy management system	dew point control standard		
blower type	centrifugal		
regeneration blower (hp)	15		
heater absorbed power (kW) insulation (3)	64		
air circuit	heater shell and hot air piping protected		
	6"		
air circuit connections (Flg) ISO class	0		
ISO diass ISO air quality class (water content)	class 2 (-40°F pdp)		
iso air quanty class (water content)	Cld55 Z (-40 F þuþ)		

⁽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



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⁽²⁾ based on a timed cycle at full flow

⁽³⁾ vessels by customer

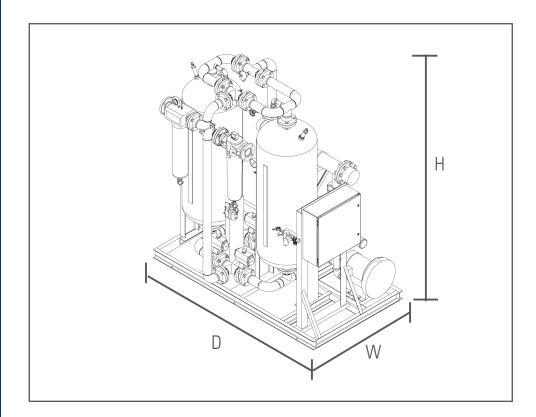
⁽⁴⁾ specifications subject to change without notice



technical specification

dimensions & weight		
width (in)	111	
depth (in)	131	
height (in)	127	
weight* (lbs)	13400	

^{*}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

