

460VAC/60Hz - 5000 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)	5000	
regeneration air (scfm) (2)	101	
half cycle time (hours)	4	
dryer pressure drop (psid)	6	
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)	3296	
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	166.2	
controller type	programmable logic controller (PLC) in NEMA 4 enclosure	
energy management system	dew point control standard	
blower type	centrifugal	
regeneration blower (hp)	20	
heater absorbed power (kW)	110	
insulation ⁽³⁾	heater shell and hot air piping protected	
air circuit	0"	
air circuit connections (Flg)	6"	
ISO class	alaca 2 / 100F rain)	
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



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⁽²⁾ based on a timed cycle at full flow

⁽³⁾ vessels by customer

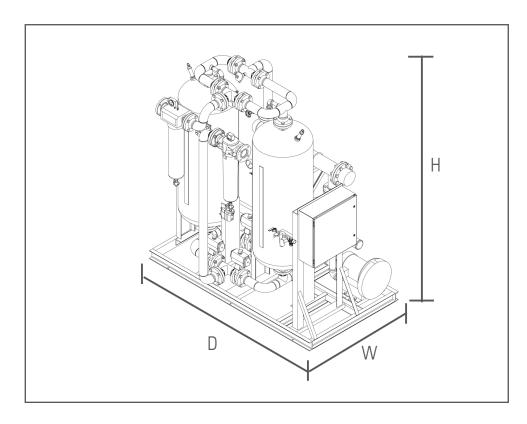
⁽⁴⁾ specifications subject to change without notice



technical specification

dimensions & weight		
width (in)	109	
depth (in)	163	
height (in)	138	
weight* (lbs)	22300	

^{*}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

