

BPA 1700

460VAC/60Hz -1700 scfm desiccant air dryer

The nano D⁵ 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)* | 1700 |
| regeneration air (scfm)* | 85 |
| absorbed power (kW) | 41.2 |
| power supply (V/Ph/Hz) | 460 VAC / 60 Hz |

operating limits

| | |
|--|----------------|
| minimum/design/maximum operating pressure range (psig) | 80 / 100 / 150 |
| minimum/design/maximum ambient temperature range (°F) | 38 / 100 / 120 |
| minimum/design/maximum inlet temperature (°F) | 38 / 100 / 120 |

desiccant chambers

| | |
|------------------------|-------------------|
| desiccant type | activated alumina |
| desiccant weight (lbs) | 2400 |

controls/design

| | |
|-----------------|--|
| dryer design | PSA externally heated blower purge dryer |
| controller type | PLC |
| NEMA rating | NEMA 4 |

heater

| | |
|---------------------|----|
| absorbed power (kW) | 30 |
|---------------------|----|

blower

| | |
|---------------------|----|
| absorbed power (hp) | 15 |
|---------------------|----|

air circuit

| | |
|----------------------------------|----|
| air circuit connections (NPT(F)) | 4" |
|----------------------------------|----|

ISO class

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

*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@n-psi.com

features

- UL/cUL compliant
- ASME coded pressure vessels
- visual moisture indicator
- integral energy saving outlet dew point control (optional)
- pre- and after filters recommended
- variety of options including bypass and pre-packaged systems
- high-performance butterfly valves made in USA

electrical features

- PLC controller
- fiberglass cUL control panel for NEMA 4X protection class
- ETL approved electrical panel
- four-hour timed NEMA cycle with thermo-couple heater override to prevent overheating in periods of low demand
- two contactors to prevent runaway heater

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technical specification

dimensions & weight

| | |
|-------------------|---------------|
| length in (mm) | 83.1(2110.7) |
| depth in (mm) | 89 (2260.6) |
| height in (mm) | 95.5 (2425.7) |
| weight lbs (kgs)* | 7000 (3175) |

*does not include desiccant

