

EHA 3100

460VAC/60Hz - 3100 scfm desiccant air dryer

The nano D⁵ twin tower externally heated desiccant air dryer provides clean dry air for a wide range of industrial applications. These dryers use an electric heater to heat a small amount of dry purge air for regeneration to increase efficiency and reduce the amount of purge air required. For consistent performance and cost-effective operation, these dryers are an excellent choice.



general characteristics

rated capacity (scfm)*	3100
regeneration air (scfm)**	248
absorbed power (kW)	60

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)	4350

controls/design

dryer design	PSA externally heated regenerative dryer
controller type	PLC
NEMA rating	NEMA 4

heater

absorbed power (kW)	60
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air circuit

air circuit connections (NPT(F))	6"
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ISO class

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

**based on a timed cycle at full flow. To decrease regeneration air consumption, please select the -ES Energy Saver option

features

- UL/cUL compliant
- ASME U-stamped pressure vessels
- pressure vessels rated to 175 psig @ 450°F
- visual moisture indicator
- integral energy saving outlet dew point control (ES optional)
- pre- and after filters recommended
- variety of options including bypass and pre-packaged systems
- low-wattage incoloy sheathed heater

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)	102.4 (2601)
depth in (mm)	68 (1727.2)
height in (mm)	117.5 (2984.5)
weight lbs (kgs)*	11,000 (4990)

*does not include desiccant

