

EHA 1000

460VAC/60Hz - 1000 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)*	1000
regeneration air (scfm)**	80
absorbed power (kW)	18

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)	1400

controls/design

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

heater

absorbed power (kW)	18
---------------------	----

air circuit

air circuit connections (NPT(F))	3"
----------------------------------	----

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

**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

nano-purification solutions llc
charlotte, north carolina
united states

nano-purification solutions penn
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions ltd
gateshead, tyne and wear
united kingdom

nano-purification solutions GmbH
krefeld, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

technical specification

dimensions & weight

length in (mm)	71 (1803.4)
depth in (mm)	58.3 (1480.8)
height in (mm)	106.8 (2712.7)
weight lbs (kgs)*	3800 (1724)

*does not include desiccant

