## EHA 175

### 460VAC/60Hz - 175 scfm desiccant air dryer

The nano D<sup>5</sup> 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)*	175
regeneration air (scfm)**	14
absorbed power (kW)	3
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)	250
controls/design	
dryer design	PSA externally heated regenerative drye
controller type	PLC
NEMA rating	NEMA 4
heater	
absorbed power (kW)	3
air circuit	
air circuit connections (NPT(F))	1 ½"
ISO class	
ISO air quality class (water content)	class 2 (-40°F pdp)

<sup>\*</sup>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 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 prepackaged 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 thermocouple 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

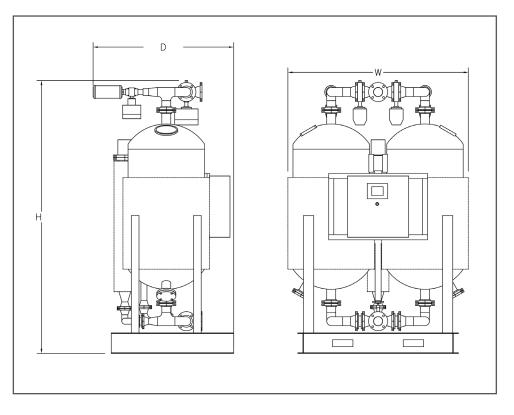
<sup>\*\*</sup>based on a timed cycle at full flow. To decrease regeneration air consumption, please select the -ES Energy Saver option



# technical specification

dimensions & weight		
length in (mm)	40 (1016)	
depth in (mm)	42 (1067)	
height in (mm)	80.3 (2039.6)	
weight lbs (kgs)*	825 (374)	

<sup>\*</sup>does not include desiccant



# 

