

EHA 175

460VAC/60Hz - 175 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)* | 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 dryer |
| controller type | PLC |
| NEMA rating | NEMA 4 |

heater

| | |
|---------------------|---|
| absorbed power (kW) | 3 |
|---------------------|---|

air circuit

| | |
|----------------------------------|------|
| air circuit connections (NPT(F)) | 1 ½" |
|----------------------------------|------|

ISO class

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|---------------------------------------|---------------------|
| 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

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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) |

*does not include desiccant

