

## STR 6250-W

460V/3Ph/60Hz - 6250 scfm refrigerated air dryer

nano R<sup>3</sup> open-frame refrigerated process air dryers are designed for reliability, performance and low cost of ownership. They feature a dual-action heat exchanger constructed of a carbon steel shell and copper tube/aluminum finned coil for increased surface area and lower pressure dew points. nano utilizes environmentally-friendly R404a refrigerant, a TXV for precise control and a simple yet powerful electronic controller. The R<sup>3</sup> offers peace of mind that downstream equipment will be protected from damaging moisture contamination.

### general characteristics

|                        |      |
|------------------------|------|
| rated capacity (scfm)* | 6250 |
| absorbed power (kW)    | 42.3 |
| full load amps (A)     | 53.2 |
| pressure drop (psid)   | 4.5  |

### operating limits

|   |           |
|---|-----------|
| design operating pressure range (psig)      | 0 - 150   |
| maximum refrigerant working pressure (psig) | 401.7     |
| design/maximum ambient temperature (°F)     | 100 / 110 |
| design/maximum inlet temperature (°F)       | 100 / 120 |

### electrical

|                         |          |
|-------------------------|----------|
| power supply (V/Ph/Hz)  | 460/3/60 |
| control panel enclosure | NEMA 1   |

### refrigerant gas/circuit

|                                      |       |
|--------------------------------------|-------|
| refrigerant type                     | R404a |
| refrigerant charge per circuit (lbs) | 100   |

### compressors

|                         |               |
|-------------------------|---------------|
| compressor type         | semi-hermetic |
| compressor quantity     | 1             |
| compressor (hp)         | 35            |
| independent gas circuit | 1             |

### fans

|                        |              |
|------------------------|--------------|
| fan type               | n/a          |
| fan quantity           | n/a          |
| condenser cooling type | water-cooled |

### air circuit

|   |    |
|---|----|
| air circuit connections (150# ANSI Flg) | 8" |
|---|----|

### ISO class

|                                       |         |
|---------------------------------------|---------|
| ISO air quality class (water content) | class 4 |
|---------------------------------------|---------|

\*rated flow capacity: in compliance with ADF 100 specifications for compressed air dryers: inlet temperature: 100°F; ambient temperature: 100°F; inlet pressure: 100 psig; pressure dew point: 33°F to 39°F. For all other conditions, contact support@n-psi.com

### features

- shell and finned tube heat exchanger
- low pressure drop
- environmentally friendly R404a refrigerant
- power on light
- on/off switch
- high suction temperature light
- compressor motor thermal overload protection
- crankcase heater
- high/low refrigerant pressure control
- low ambient fan controls
- air inlet temperature gauge
- refrigerant analyzer gauge (suction pressure)
- outlet air pressure gauge
- compressor run lights
- zero air loss drains

**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)   | 100 (2540)  |
| depth in (mm)    | 50 (1270)   |
| height in (mm)   | 104 (2642)  |
| weight lbs (kgs) | 4400 (1996) |

