

## STR 3200-A

### 460V/3Ph/60Hz - 3200 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)* | 3200     |
| absorbed power (kW)    | 27.7     |
| full load amps (A)     | 35.6     |
| power supply (V/Ph/Hz) | 460/3/60 |

#### 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 |

#### refrigerant gas/circuit

|                                      |                    |
|--------------------------------------|--------------------|
| refrigerant type                     | R404a              |
| refrigerant charge per circuit (lbs) | 30 each (60 total) |

#### compressors

|                         |        |
|-------------------------|--------|
| compressor type         | scroll |
| compressor quantity     | 2      |
| compressor (hp)         | 20     |
| independent gas circuit | 2      |

#### fans

|                        |            |
|------------------------|------------|
| fan type               | axial      |
| fan quantity           | 4          |
| condenser cooling type | air-cooled |

#### air circuit

|   |    |
|---|----|
| air circuit connections (#150 ANSI Flg) | 6" |
|---|----|

#### 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

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## technical specification

### dimensions & weight

|                  |             |
|------------------|-------------|
| length in (mm)   | 90 (2286)   |
| depth in (mm)    | 70 (1778)   |
| height in (mm)   | 67.5 (1715) |
| weight lbs (kgs) | 2900 (1315) |

