

STR 2000-A

460V/3Ph/60Hz - 2000 scfm refrigerated air dryer

nano R³ 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 R³ offers peace of mind that downstream equipment will be protected from damaging moisture contamination.

general characteristics

| | |
|------------------------|------|
| rated capacity (scfm)* | 2000 |
| absorbed power (kW) | 15.1 |
| full load amps (A) | 18.6 |
| pressure drop (psid) | 3.5 |

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) | 12 each (total 24) |

compressors

| | |
|-------------------------|--------|
| compressor type | scroll |
| compressor quantity | 2 |
| compressor (hp) | 12 |
| independent gas circuit | 2 |

fans

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

air circuit

| | |
|---|----|
| air circuit connections (150# ANSI Flg) | 4" |
|---|----|

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) | 73 (1854) |
| depth in (mm) | 51 (1295) |
| height in (mm) | 60.5 (1537) |
| weight lbs (kgs) | 2125 (964) |

