

STR 2500-W

460V/3Ph/60Hz - 2500 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)*	2500
absorbed power (kW)	10.7
full load amps (A)	20
pressure drop (psid)	1.5

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)	60

compressors

compressor type	semi-hermetic
compressor quantity	1
compressor (hp)	10
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)	6"
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ISO class

ISO air quality class (water content)	class 4
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**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)	90 (2286)
depth in (mm)	70 (1778)
height in (mm)	67.5 (1715)
weight lbs (kgs)	3100 (1406)

