STR 4000-W

460V/3Ph/60Hz - 4000 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)*	4000
absorbed power (kW)	20.1
full load amps (A)	53.6
pressure drop (psid)	2.8
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)	66
compressors	
compressor type	semi-hermetic
compressor quantity	1
compressor (hp)	20
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

Experience. Customer. Service.

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

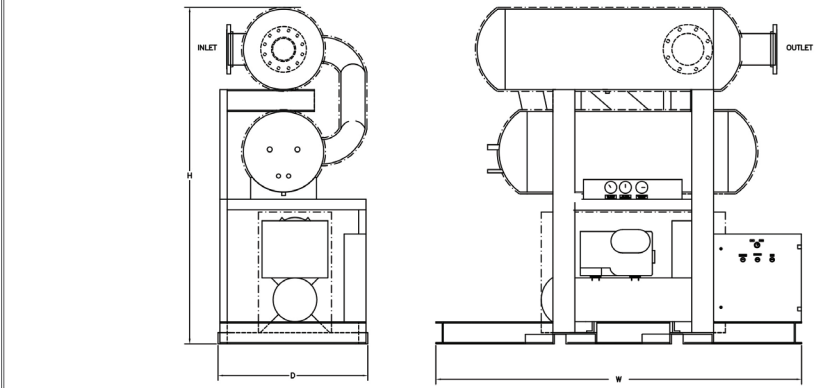
nano-purification solutions GmbH
krefeld, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

www.n-psi.com

technical specification

dimensions & weight	
length in (mm)	100 (2540)
depth in (mm)	41 (1041)
height in (mm)	92 (2337)
weight lbs (kgs)	3300 (1497)



MEMBER OF CAGI Compressed Air & Gas Institute

copyright PURIFICATION SOLUTIONS LLC
publication reference n-psi-R3-STR4000W-00-us