STR 4000-A-RC

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)	30.5
full load amps (A)	45.8
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)	determined by length of refrigerant lines
compressors	
compressor type	semi-hermetic
compressor quantity	1
compressor (hp)	28
independent gas circuit	1
fans	
fan type	axial
fan quantity	2
condenser cooling type	air-cooled (remote condenser)
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

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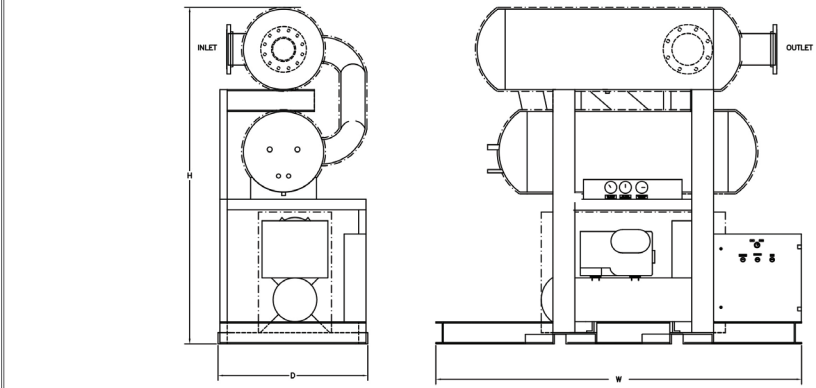
technical specification

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



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