

## STR 1750-W

### 460V/3Ph/60Hz - 1750 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)*	1750
absorbed power (kW)	7.5
full load amps (A)	14.1
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)	45

#### compressors

compressor type	semi-hermetic
compressor quantity	1
compressor (hp)	7.5
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)	4"
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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

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## technical specification

### dimensions & weight

length in (mm)	73 (1854)
depth in (mm)	51 (1295)
height in (mm)	60.5 (15367)
weight lbs (kgs)	2075 (941)

