

DXR 0500 NA

460/3/60 - 500 scfm refrigerated air dryer

The nano R⁴ direct expansion refrigerated air dryer offers a reliable, cost effective and simple solution to those who need quality dry compressed air for their manufacturing processes. To avoid condensation, and therefore all chance of equipment and end-product corrosion or damage, compressed air needs to be dry — exactly what our range of R⁴ dryers is designed to do.



general characteristics	
rated capacity (scfm) ⁽¹⁾	500
absorbed power (kW)	3.22
full load amps (A)	6.3
power supply (V/Ph/Hz)	460/3/60
pressure drop over dryer (psid)	2.18
operating limits	
design operating pressure range (psig)	60 to 203
maximum refrigerant working pressure (psig)	623.5
minimum/maximum ambient temperature (°F)	41 to 114.8
maximum inlet temperature (°F)	140
refrigerant gas/circuit	
refrigerant type	R410A
refrigerant charge per circuit (lbs)	4.08
compressors	
compressor type	piston
compressor quantity	1
independent gas circuit	1
fans	
fan type	axial
fan quantity	1
cooling air flow (scfm)	3531
air circuit	
air circuit connections (NPT(F))	2 ½"
ISO class	
ISO air quality class (water content)	class 4 and 5

(1) rated flow capacity: conditions for rating dryers are in accordance with ISO 7183 (Option A2). Compressed air at dryer inlet: 100 psig (7 bar) and 100°F (38°C); ambient air temperature: 100°F (38°C); operating on 60Hz power supply. For all other conditions, contact support@n-psi.com

scope of supply

mechanical components

- combined air-to-air and air-to-refrigerant heat exchanger design
- zero air loss condensate drain
- integrated water separator
- single electrical connection
- rotary compressor
- hot gas bypass valve
- fully insulated heat exchanger

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R4: direct expansion refrigerated air dryers

controls and monitoring

- user friendly interface
- digital pressure dew point display
- includes service warnings and reminders
- remote alarm contact
- automatic power on after restart
- provides controls for all system components

technical specification

dimensions & weight

A (in)	32
B (in)	41
C (in)	38
weight (lbs)	364

