

## NXC 0850

460/3/60 - 850 scfm refrigerated air dryer

The nano R<sup>1</sup> *NEXT GENERATION* refrigerated air dryer combines the advantages of a direct thermal exchange with thermal exchange. By combining these two powerful energy saving technologies the R<sup>1</sup> cycling dryer refrigerated air dryer provides you the lowest power consumption available in the market today. With digital controls that manage energy consumption and unique DTT (dual transfer technology), the R<sup>1</sup> cycling refrigerated air dryer provides substantial energy savings under various seasonal conditions.



### general characteristics

|                           |          |
|---------------------------|----------|
| rated capacity (scfm)*    | 850      |
| absorbed power input (kW) | 3.60     |
| full load power (A)       | 8.24     |
| power supply (V/Ph/Hz)    | 460/3/60 |

### operating limits

|                                             |          |
|---------------------------------------------|----------|
| design operating pressure range (psig)      | 0 - 232  |
| maximum refrigerant working pressure (psig) | 392      |
| minimum/maximum ambient temperature (°F)    | 34 - 110 |
| maximum inlet temperature (°F)              | 158      |

### refrigerant gas/circuit

|                                      |       |
|--------------------------------------|-------|
| refrigerant type                     | R407c |
| refrigerant charge per circuit (lbs) | 7.7   |

### compressors

|                         |        |
|-------------------------|--------|
| compressor type         | scroll |
| compressor quantity     | 1      |
| independent gas circuit | 1      |

### fans

|              |       |
|--------------|-------|
| fan type     | axial |
| fan quantity | 1     |

### air circuit

|                               |    |
|-------------------------------|----|
| air circuit connections (NPT) | 3" |
|-------------------------------|----|

### ISO class

|                                       |         |
|---------------------------------------|---------|
| ISO air quality class (water content) | class 4 |
|---------------------------------------|---------|

*\*rated flow capacity: conditions for rating dryers are in accordance with ISO7183 (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*

### features

- patented dual transfer thermal heat exchanger
- advanced electronic controller
- built in reliability with a 2-year warranty
- 232 psig standard rating for the complete range
- simple refrigeration circuit with no hot gas bypass valve
- wide air paths – trouble free anti-clogging heat exchanger
- self-adjusting and controlling
- environmentally friendly refrigerant and non-toxic "dry" silica mass
- quick easy startup with no pre-start up cooling programming or calibration
- designed for tough Industrial settings

### advanced microprocessor features

- 3 button digital interface
- digital LED display
- outlet air dew point indication
- user programmable operating parameters
- condensate drain control and test function

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## technical specification

### dimensions & weight

|              |      |
|--------------|------|
| length (ins) | 29.1 |
| depth (ins)  | 61.0 |
| height (ins) | 59.1 |
| weight (lbs) | 992  |

