



C Series | Cool Force™ Cycling Refrigerated Air Dryer

Unparalleled Reliability and Performance

The Pure-Aire C Series raises the bar for reliability while maintaining the lowest total cost of ownership and maximizing productivity. ***It is designed to outperform any refrigerated dryer available.*** Cool Force™ technology ensures a consistent dew point is held under 40°F. We continuously review feedback from engineers, service technicians, and our customers, and this has driven us to produce the most reliable and serviceable designs available. The Pure-Aire line of compressed air dryers are engineered, assembled, and supported in the United States.

Benefits and Standard Features

- ✓ Cool Force™ Design Ensures a Consistent Dew Point is Achieved
- ✓ Low Pressure Drop Design (< 3 psig)
- ✓ Oversized Stainless Steel Air Side Heat Exchanger
- ✓ Stainless Steel Coolant Heat Exchanger
- ✓ Heavy-Duty Coolant Pump
- ✓ Zero Air Loss Condensate Drain
- ✓ Dual Setpoints Safely Ensure Maximum Cooling
- ✓ No Hot Gas By-Pass Valve to Adjust or Replace
- ✓ Oversized Condensing Unit for Maximum Heat Rejection
- ✓ R404A Environmentally Friendly Refrigerant
- ✓ eControl Microprocessor
 - Dew Point Display
 - High Dew Point Alarm
 - Power Indication
 - Coolant Temperature
- ✓ Corrosion Resistant Coolant Reservoir
- ✓ Combi-Plex™ Design at 3,200 cfm and Higher

Optional Features

- Pre-Piped Inlet or Discharge Filters
- Modbus Communication
- Air Flow Meter with Display
- Inlet or Discharge Pressure Display
- 3 Valve By-Pass Piping
- Washable Electrostatic Package Filter



Cool Force™ Cycling

Forced circulation of coolant through the stainless steel heat exchanger eliminates dew point fluctuations as seen in competitive dryers, where the heat exchanger is immersed in the coolant and the refrigeration compressor cycles to match air demand. Dual setpoints safely ensure maximum cooling throughout the entire flow of operation.



Stainless Steel Heat Exchangers

Premium components are utilized to ensure unmatched reliability and performance.



Best In Class Warranty

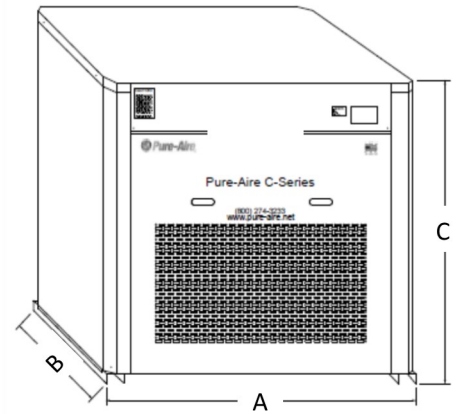
The first 12 months covers all components. 10 year warranty on heat exchanger. 5 year warranty on refrigerant compressor.



Technical Specifications

| | |
|---------------------------------|--------------------|
| Flow Range at 100 psig (7 barg) | 150 to 10,000 scfm |
| Dew Point (°F) | 35°F to 40°F |
| Maximum Operating Pressure | 150 psig |
| Minimum Operating Pressure | 50 psig |
| Ambient Temperature Range | 35°F to 120°F |

| Model | scfm | In/Out | Voltage (V) | HP | FLA (amps) | Dimensions (Inches) | | | Weight (lbs.) |
|--------|-------|------------|-------------|-----|------------|---------------------|-------|-------|---------------|
| | | | | | | L (A) | W (B) | H (C) | |
| C150 | 150 | 1 1/4" NPT | 115 | 1 | 9 | 21.75 | 24.25 | 35 | 326 |
| C200 | 200 | 1 1/2" NPT | 208 / 230 | 1.5 | 6 | 32.5 | 28 | 40 | 556 |
| C250 | 250 | 1 1/2" NPT | 460 | 1.5 | 6 | 32.5 | 28 | 40 | 556 |
| C325 | 325 | 2" NPT | 460 | 2 | 6 | 35 | 36.6 | 56 | 862 |
| C400 | 400 | 2" NPT | 460 | 3 | 8 | 35 | 36.6 | 56 | 862 |
| C500 | 500 | 2" NPT | 460 | 3 | 8 | 35 | 36.6 | 56 | 862 |
| C750 | 750 | 2 1/2" NPT | 460 | 4 | 10 | 60 | 40 | 54 | 1,135 |
| C850 | 850 | 3" NPT | 460 | 5 | 12 | 60 | 40 | 54 | 1,135 |
| C1000 | 1000 | 4" FLG | 460 | 5 | 12 | 60 | 40 | 54 | 1,561 |
| C1200 | 1200 | 4" FLG | 460 | 7 | 16 | 66 | 40 | 62 | 2,030 |
| C1600 | 1600 | 4" FLG | 460 | 9 | 17 | 66 | 40 | 62 | 2,030 |
| C2000 | 2000 | 4" FLG | 460 | 10 | 24 | 66 | 40 | 62 | 2,800 |
| C2400 | 2400 | 4" FLG | 460 | 14 | 31 | 66 | 80 | 62 | 3,500 |
| C3200 | 3200 | 6" FLG | 460 | 16 | 35 | CF | CF | CF | CF |
| C4000 | 4000 | 8" FLG | 460 | 20 | 44 | CF | CF | CF | CF |
| C4800 | 4800 | 8" FLG | 460 | 25 | 55 | CF | CF | CF | CF |
| C6000 | 6000 | 10" FLG | 460 | 30 | 66 | CF | CF | CF | CF |
| C7200 | 7200 | 10" FLG | 460 | 36 | 80 | CF | CF | CF | CF |
| C8000 | 8000 | 12" FLG | 460 | 40 | 89 | CF | CF | CF | CF |
| C9600 | 9600 | 12" FLG | 460 | 48 | 106 | CF | CF | CF | CF |
| C12000 | 12000 | 14" FLG | 460 | 60 | 133 | CF | CF | CF | CF |



CF = Consult Factory

Flow Correction Factors

Ambient Temperature Correction

| | | | | |
|--------|------|------|------|------|
| °F | 90 | 100 | 110 | 120 |
| °C | 32 | 38 | 44 | 49 |
| Factor | 1.08 | 1.00 | 0.90 | 0.79 |

Inlet Air Temperature Correction

| | | | | | | |
|--------|------|------|------|------|------|------|
| °F | 90 | 100 | 105 | 110 | 115 | 120 |
| °C | 32 | 38 | 41 | 38 | 46 | 49 |
| Factor | 1.22 | 1.00 | 0.90 | 0.82 | 0.74 | 0.68 |

Inlet Air Pressure Correction

| | | | | | | |
|--------|------|------|------|------|------|------|
| psig | 50 | 80 | 100 | 110 | 125 | 150 |
| barg | 3.5 | 5.5 | 6.2 | 7.6 | 8.6 | 10.3 |
| Factor | 0.77 | 0.93 | 1.00 | 1.00 | 1.07 | 1.12 |

Air Flow Capacity = Nominal Capacity of the Dryer x Ambient Temperature Correction x Inlet Temperature Correction x Inlet Pressure Correction

Contact Us

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