



## 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

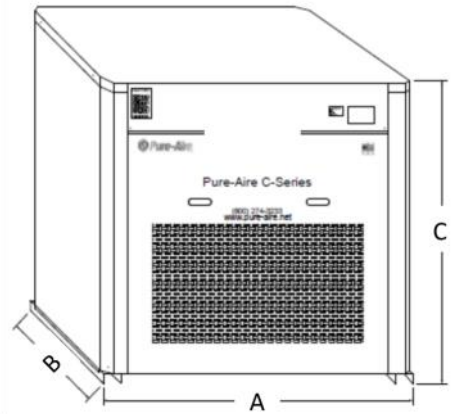
*The first 12 months covers all components. 10 year warranty on heat exchanger. 5 year warranty on refrigerant compressor.*



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

1-800-274-3233

sales@pure-aire.com

www.pure-aire.com