

FOR A CLEAN, DRY COMPRESSED AIR SYSTEM

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Since 1854, CURTIS Air Compressors has earned the reputation of building the most rugged industrial duty equipment you can buy. Today, FSCURTIS® continues the tradition with our CR Series line of refrigerated compressed air dryers. The easy to install compact package saves valuable floor space and allows for quick installation. Visit your local FSCURTIS dealer and see for yourself the quality that is built into all our products.

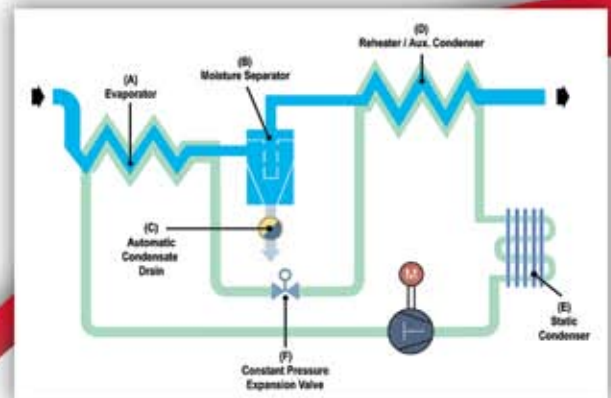


SYSTEM RELIABILITY

- 38°F pressure dew point removes troublesome moisture to extend equipment life
- Fully automatic operation saves money by adjusting to system needs without complicated controls
- High efficiency tube on tube heat exchangers minimize power usage
- Moisture separator with non-clogging condensate drain automatically removes moisture

STANDARD FEATURES

- Lighted on-off switch
- Dew point indicator on models CR25 - CR500
- Non clogging float drain on models CR10 - CR15
- Non clogging timer drain on models CR25 - CR500
- Environmentally friendly R-134a refrigeration system, CFC-free
- Reheated outlet air eliminates cold sweaty piping



HOW IT WORKS

- Warm saturated air enters the evaporator where it is cooled by an air to refrigerant process.
- Water vapor condenses into liquid form and is collected in the moisture separator.
- Automatic drain discharges condensate from separator.
- Cold dry discharge air is then reheated as it passes through reheater.
- Condenser radiates waste system heat to ambient.
- Refrigerant control valve modulates the flow of refrigerant to eliminate freeze-ups and ensure automatic dew point control.

Genuine. FSCURTIS.

SPECIFICATIONS AND PERFORMANCE

CR SERIES REFRIGERATED AIR DRYERS — Flows 10 through 500 scfm						Dimensions H x W x D Inches	Shipping Weight Lbs.
Model	Capacity ¹ SCFM	Inlet Outlet npt. male	Power Supply	Input Power ² kW	Refrigerant		
CR-10	10	3/8	115 / 1 / 60	0.20	R134a		
CR-15	15	3/8		0.24		22 x 15 x 15	69
CR-25	25	3/4		0.41			
CR-35	35	3/4		0.46		20 x 19 x 21	92
CR-50	50	3/4		0.57			
CR-75	75	3/4		0.72		30 x 17 x 36	110
CR-100	100	1		0.74			
CR-125	125	1		0.76		30 x 21 x 38	133
CR-150	150	1		1.11			
CR-200	200	1-1/2		1.42		183	
CR-250	250	1-1/2	460 / 3 / 60	1.98	211		
CR-300	300	1-1/2		2.05	219		
CR-400	400	2		2.50	232		
CR-500	500	2		3.06	262		

¹ **Rated Flow Capacity** - Conditions for rating dryers are in accordance with CAGI (Compressed Air and Gas Institute) Standard ADF 100: Refrigerated Compressed Air Dryers - Methods for Testing and Rating. Conditions for rating above dryers are: compressed air at dryer inlet: 100 psig and 100°F saturated; ambient temperature: 100°F; operating on 60 Hz power supply. At rated conditions, pressure drop is less than 5 psi.

² At 35°F evaporator and 100°F ambient.

TABLE 1: DRYER SIZING CHART

Temp. °F	Inlet Air Pressure psig Correction Factor						
	80	100	125	150	175	200	250
90	1.17	1.23	1.31	1.37	1.42	1.47	1.49
100	0.95	1.00	1.07	1.13	1.18	1.22	1.24
110	0.79	0.82	0.91	0.95	0.99	1.03	1.05
120	0.66	0.70	0.74	0.80	0.84	0.89	0.91

TABLE 2: CORRECTION FACTOR

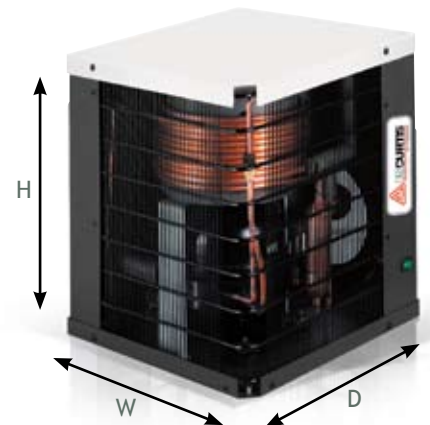
Ambient Air Temp. (°F)	80	90	100	110
Correction Factor	1.12	1.06	1.00	0.94

OPERATING CONDITIONS

Inlet Air Pressure (psig)	Max.	Min.
	Models 10-50	250
Models 75-500	232	10

Inlet Air Temperature (°F)	Max.	Min.
	Models 10-50	120
Models 75-500	120	40

Ambient Temperature (°F)	Max.	Min.
	Models 10-50	110
Models 75-500	110	45



CAPACITY CORRECTION FACTORS To adjust dryer capacity for conditions other than rated, use Correction Factors (multipliers) from Tables 1 & 2.

Example: What is the capacity of a 200 scfm model when the compressed air at the inlet to the dryer is 150 psig and 100°F, and the ambient temperature is 90°F?

Answer: 200 scfm (rated flow from Specifications Table) x 1.13 (correction factor for inlet temperature and pressure from Table 1) x 1.06 (correction factor for ambient temperature from Table 2) = 240 scfm.



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Improvements and research are continuous at FSCURTIS. Specifications may change without notice.

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