

# Refrigerated Air Dryers

## KRYOSEC SERIES

12 - 159 cfm



# Technical Specifications

Model	Rated Capacity* (scfm)	Power Supply (V / Ph / Hz)	Inlet/Outlet Connection (in. NPTF)	Dimensions W x D x H (in.)	Weight (lbs.)
TAH 5	12	115 / 1 / 60 <sup>(1)</sup>	1/2	15¼ x 18¾ x 17½	53
TAH 7	20				53
TAH 10	28				57
TBH 14	42				73
TBH 16	56				84
TBH 23	77		1	26¼ x 26 x 24	101
TCH 27	90				123
TCH 33	110				146
TCH 36	124		1¼		152
TCH 45	159				165
		230 / 1 / 60			

## Selecting the Proper Dryer

To correct rated capacity for actual operating conditions, refer to “Capacity Correction Factors for Operating Conditions” and “Capacity Correction Factors for Ambient Temperature”. Find the capacity correction factors corresponding to the inlet and ambient conditions. Multiply these factors to find the “overall” capacity correction factor, then multiply any dryer’s rated capacity by the overall correction factor to determine its capacity at your operating conditions. Capacity correction factors for conditions not shown may be interpolated.

- \*Rated capacity: Based on compressed air saturated at 100°F and 100 psig and operation in a 100°F ambient.
- Maximum inlet temperature: 140°F
  - Maximum/minimum ambient air temperature: 122/38°F
  - Maximum allowable working pressure: 230 psig (1) 230/1/60 available by request

**Table 1: Capacity Correction Factors for Operating Conditions**

Pressure (psig)	Temperature (°F)											
	75	80	85	90	95	100	105	110	115	120	125	130
60		0.95			0.85	0.76	0.67	0.59	0.52	0.46	0.41	0.36
80		1.10			0.98	0.88	0.77	0.68	0.60	0.53	0.48	0.42
100		1.25			1.12	1.00	0.88	0.78	0.69	0.61	0.54	0.48
120		1.32			1.18	1.06	0.93	0.82	0.73	0.64	0.57	0.50
140		1.38			1.24	1.11	0.97	0.86	0.76	0.67	0.60	0.53
160		1.45			1.29	1.16	1.02	0.90	0.80	0.70	0.62	0.55
180		1.50			1.34	1.20	1.05	0.93	0.82	0.73	0.65	0.57
200		1.54			1.38	1.23	1.08	0.96	0.85	0.75	0.67	0.59
230		1.58			1.42	1.26	1.11	0.99	0.87	0.77	0.69	0.60

**Table 2: Capacity Correction Factors for Ambient Temperature**

Factor	Ambient Air Temperature (°F)							
	75	80	85	90	95	100	105	110
		1.09			1.05	1.00	0.96	0.92

Specifications are subject to change without notice.



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