



# DRYER DATA SHEET

Doc. No.: TI.IDS-122	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS	Date: 01/09/2023
Version: 2.4	TC SERIES	Page: 1 of 1

MODEL	TC 31	TC 36
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I. MINIMUM-MAXIMUM OPERATING CONDITIONS			
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	232		232
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	130		130
Min-Max ambient temperature [°F]	38-110		38-110
Nominal pressure drop at rated flow [psid]	2.3		2.9
Rated dew point* [°F]	46		46
Rated capacity* [scfm**]	113		138

II. REFRIGERATION SYSTEM DATA			
BTU/HR - Refrigeration ASHRAE	8235		8235
Refrigeration compressor horsepower	1.36	1.4	1.36 1.4
Outlet air temperature (nominal at rated conditions) [°F]	76		77
Refrigerant type	R-513A		R-513A
Refrigerant charge [lb]	2.34[115V]	2.34[230V]	2.42[115V] 2.21[230V]
Air flow across condenser [cfm]	1320		1320

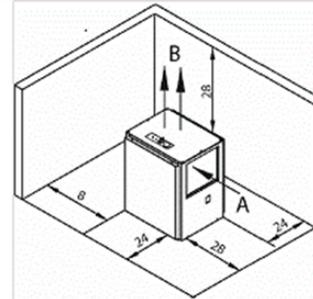
III. ELECTRICAL DATA			
Nominal Voltage	115V/1/60	230V/1/60	115V/1/60 230V/1/60
Min-Max voltage	103V-127V	207V-253V	103V-127V 207V-253V
Amperage Draw	Total Full Load Amps		
	14.8	7.2	15.2 7.8
	Compressor Full Load Amps		
	13.0	6.4	13.5 7.1
	Compressor Locked Rotor Amps		
	54	25	54 25
Unit Protection fuse size [amps]	15	15	20 15
Branch circuit fuse size [amps]	1	1	1 1
Supply Cable (included)	14 AWG	14 AWG	12 AWG 14 AWG
Max Power consumption [kW]	1.24	1.31	1.31 1.56
Power Consumption according to ISO 7183 Option A2 [kW]	1.0	1.1	1.07 1.17

IV. GENERAL INFORMATION			
Envelope dimensions - W x D x H [in]	26 x 31-1/2 x 39-3/4		26 x 31-1/2 x 39-3/4
Weight [lb]	342		375
Noise level measured in dB(A) at 1 m (approx. 40 in) ***	< 70		< 70
Control Cabinet Class [NEMA]	12		12
Air inlet/outlet connections	1 1/4 NPT		1 1/4 NPT
Drain connection [in]	1/4		1/4

**V. SERVICE/AIRFLOW CLEARANCES<sup>1</sup> (inches)**

<sup>1</sup>If Clearances cannot be met, please consult factory.

Cooling airflow: "A" = inlet  
"B" = outlet



\* Rated conditions = inlet air pressure of 100 psig, inlet air temperature of 100°F, 100% Relative Humidity, and max. ambient temperature of 100°F

\*\* SCFM = Standard Cubic Foot per Minute at 68°F, 0% Relative Humidity, and 14.5 psia

\*\*\* Sound pressure level as per EN ISO 11203 and the basic standard ISO 9614-2

Note: See Service Manual for complete details