



DRYER DATA SHEET

Doc. No.: TI.IDS-126 Version: 1.7	KAESER KRYOSEC SERIES REFRIGERATED NON-CYCLING DRYERS TBH SERIES with Hot Gas Bypass	Date: 01/09/2023
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MODEL	TBH 14		TBH 16		TBH 23	
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I. MINIMUM-MAXIMUM OPERATING CONDITIONS						
Maximum inlet air pressure (compressed air at inlet to dryer)	230		230		230	
Maximum inlet air temperature (compressed air at inlet to dryer)	134		134		134	
Min-Max ambient temperature [°F]	38 - 122		38 - 122		38 - 122	
Nominal pressure drop at rated flow [psid]	3.19		3.48		3.34	
Rated dew point* [°F]	43		46		43	
Rated capacity** [scfm**]	42		57		78	

II. REFRIGERATION SYSTEM DATA						
Refrigeration compressor horsepower	0.6	0.45	0.82	0.56	0.98	0.71
BTU/HR - Refrigeration ASHRAE	3465	2750	4258	3300	5450	4350
Outlet air temperature (nominal at rated conditions)[°F]	86		86		86	
Refrigerant type	R-513A		R-513A		R-513A	
Refrigerant charge [lb]	0.71	0.64	0.95	0.97	1.15	1.08
Air flow across condenser [cfm]	383		335		335	

III. ELECTRICAL DATA						
Min-Max voltage	104V - 126V		207V - 253V		104V - 126V	
Nominal Voltage	115V		230V		115V	
Amperage Draw	Total Full Load Amps		6.3 A		2.7 A	
	Compressor Full Load Amps		5.75 A		2.4 A	
	Compressor Locked Rotor Amps		27.5 A		11 A	
Unit Protection fuse size [amps]	15		15		15	
Supply Cable	3x14AWG		3x14AWG		3x14AWG	
Max power consumption [kW]	0.58		0.5		0.8	
Power Consumption according to ISO 7183 Option A2 [kW]	0.48		0.36		0.57	
Resistance [ohms] compressor (main winding 68°F)	1.9		10.5		1.7	

IV. GENERAL INFORMATION						
Envelope dimensions - W x D x H [in]	18 1/4 x 20 3/4 x 21 3/4		18 1/4 x 20 3/4 x 21 3/4		18 1/4 x 20 3/4 x 21 3/4	
Weight [lb]	73	73	84	82	101	99
Noise level measured in dB(A) at 1 m (approx. 40 in)	<70		<70		<70	
Fan Motor Enclosure Type	ELCO		ELCO		ELCO	
Air inlet connection	1/2 NPT		1/2 NPT		1 NPT	
Air outlet connection	1/2 NPT		1/2 NPT		1 NPT	
Drain connection	1/4 NPT		1/4 NPT		1/4 NPT	

V. SERVICE/AIRFLOW CLEARANCES¹ (inches)

<p>¹If Clearances cannot be met, please consult factory.</p> <p>Cooling airflow: "A" = inlet "B" = outlet</p>		
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* 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