



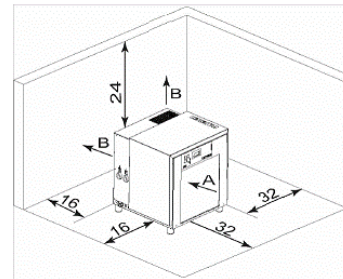
DRYER DATA SHEET

Doc. No.: TI.IDS-127 Version: 1.7	KAESER KRYOSEC SERIES REFRIGERATED NON-CYCLING DRYERS TCH SERIES with Hot Gas Bypass	Date: 01/09/2023
--------------------------------------	---	------------------

MODEL	TCH 27		TCH 33		TCH 36		TCH 45
I. MINIMUM-MAXIMUM OPERATING CONDITIONS							
Maximum inlet air pressure (compressed air at inlet to dryer)	230		230		230		230
Maximum inlet air temperature (compressed air at inlet to dryer)	134		134		134		134
Min-Max ambient temperature [°F]	38 - 122		38 - 122		38 - 122		38 - 122
Nominal pressure drop at rated flow [psid]	2.6		2.7		3		2.6
Rated dew point* [°F]	43		43		43		43
Rated capacity** [scfm**]	90		110		124		159
II. REFRIGERATION SYSTEM DATA							
Refrigeration compressor horsepower	0.98	0.84	1.3	1.1	1.3	1.3	1.6
BTU/HR - Refrigeration ASHRAE	5450	5450	6827	5502	6827	6413	7742
Outlet air temperature (nominal at rated conditions)[°F]	86		86		86		86
Refrigerant type	R-513A		R-513A		R-513A		R-513A
Refrigerant charge [lb]	1.32	1.26	1.74	1.76	1.98	2.09	2.40
Air flow across condenser [cfm]	365	453	365	453	883	1198	1198
III. ELECTRICAL DATA							
Min-Max voltage	104V - 126V	207V - 253V	104V - 126V	207V - 253V	104V - 126V	207V - 253V	207V - 253V
Nominal Voltage	115V	230V	115V	230V	115V	230V	230V
Amperage Draw	Total Full Load Amps		Total Full Load Amps		Total Full Load Amps		Total Full Load Amps
	9.6 A	3.34 A	15 A	6.2 A	15.5 A	7.2 A	9.5 A
	Compressor Full Load Amps		Compressor Full Load Amps		Compressor Full Load Amps		Compressor Full Load Amps
	9.3 A	3.16 A	14.2 A	5.7 A	13.9 A	6.44 A	8.65 A
	Compressor Locked Rotor Amps		Compressor Locked Rotor Amps		Compressor Locked Rotor Amps		Compressor Locked Rotor Amps
	42 A	24.5 A	54 A	22 A	54 A	25 A	33 A
Unit Protection fuse size [amps]	20	15	20	15	20	15	15
Supply Cable	3x12AWG	3x14AWG	3x12AWG	3x14AWG	3x12AWG	3x14AWG	3x14AWG
Max power consumption [kW]	0.88	0.70	1.15	1.15	1.38	1.38	1.77
Power Consumption according to ISO 7183 Option A2 [kW]	0.66	0.6	0.97	0.8	1.15	1.08	1.33
Resistance [ohms] compressor (main winding 68°F)	1.14	3.45	0.72	2.80	0.72	2.70	2.40
IV. GENERAL INFORMATION							
Envelope dimensions - W x D x H [in]	26 1/4 x 26 x 24		26 1/4 x 26 x 24		26 1/4 x 26 x 24		26 1/4 x 26 x 24
Weight [lb]	123		146		152		165
Noise level measured in dB(A) at 1 m (approx. 40 in)	<70		<70		<70		<70
Fan Motor Enclosure Type	ebm papst		ebm papst		ebm papst		ebm papst
Air inlet connection	1 NPT		1 1/4 NPT		1 1/4 NPT		1 1/4 NPT
Air outlet connection	1 NPT		1 1/4 NPT		1 1/4 NPT		1 1/4 NPT
Drain connection	1/4 NPT		1/4 NPT		1/4 NPT		1/4 NPT
V. SERVICE/AIRFLOW CLEARANCES* (inches)							

*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