DRYER DATA SHEET

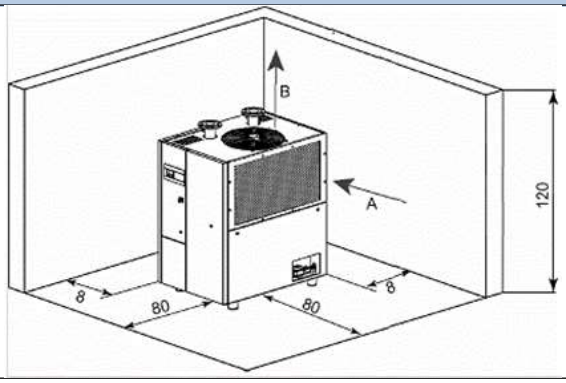
Doc. No.: TI-IDS-218	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS	Date: 05/13/2021
Version: 1.0	TF SERIES - Air-cooled	Page: 1 of 1

MODEL	TF 174	TF 230	TF 280	TF 340
I. MINIMUM-MAXIMUM OPERATING CONDITIONS				
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	230	230	230	230
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	140	140	140	140
Min-Max ambient temperature [°F] *** Air-cooled	38-110	38-110	38-110	38-110
Nominal pressure drop at rated flow [psid]	1.6	1.9	2.4	2.2
Rated dew point* [°F]	39	39	39	39
Rated capacity* [scfm^]	550	740	900	1130
II. REFRIGERATION SYSTEM DATA				
BTU/HR - Refrigeration **ARI**	22600	33800	39950	49350
Refrigerant type	R-513A	R-513A	R-513A	R-513A
Refrigerant charge [lbs]	6.2	6.4	7.5	9.9
Air flow across condenser (cfm)	3100	3100	4600	4600
III. ELECTRICAL DATA				
Nominal Voltage	575/3/60	575/3/60	575/3/60	575/3/60
Min-max voltage	518V-633V**	518V-633V**	518V-633V**	518V-633V**
Unit Protection fuse size (amps)	10	10	15	15
Amperage Draw + ***	4.5	6.6	6.6	8.3
Compressor Full Load Amps	4.9	6.9	6.7	8.7
Compressor Locked Rotor Amps	45	60	70	74
Branch circuit fuse size (amps) primary	0.5	0.5	0.5	0.5
secondary	2	2	2	2
Max Power Consumption [kW] ***	3.5	5.0	5.3	6.7
Power Consumption according to ISO 7183 Option A2 [kW] ***	2.6	3.47	4.1	4.7
IV. GENERAL INFORMATION				
Envelope dimensions - W x D x H [in]	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4
Weight [lbs]	765	830	865	925
Noise level measured in dB(A) at 1 m (approx. 40 in) ****	70	70	72	72
Control Cabinet Class [NEMA]	12	12	12	12
Air inlet/outlet connections	2 1/2" ASME class 150	3" ASME class 150	3" ASME class 150	3" ASME class 150
Drain connection	1/4 " NPT	1/4 NPT	1/4 NPT	1/4 NPT

V. SERVICE/AIRFLOW CLEARANCES[1] (inches)

[1]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

\+ 460V: Total full load amps, Other Voltages: Total full load amps of transformer

** with transformer

*** without high ambient option

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

Note: See Service Manual for complete details

DRYER DATA SHEET

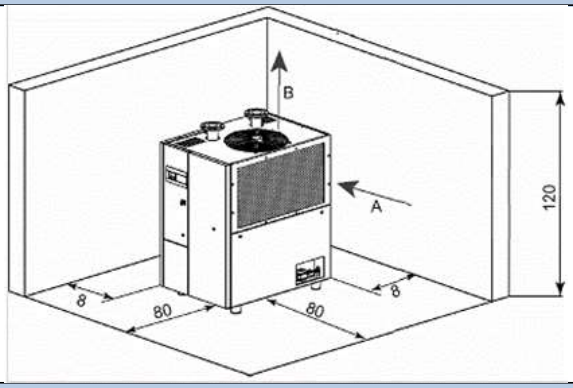
Doc. No.: TI-IDS-219	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS	Date: 05/13/2021
Version: 1.0	TF SERIES - Water-cooled	Page: 1 of 1

MODEL	TF 174	TF 230	TF 280	TF 340
I. MINIMUM-MAXIMUM OPERATING CONDITIONS				
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	230	230	230	230
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	140	140	140	140
Min-Max ambient temperature [°F] *** Water-Cooled	38-120	38-120	38-120	38-120
Nominal pressure drop at rated flow [psid]	1.8	2.5	2.8	2.5
Rated dew point* [°F]	39	39	39	39
Rated capacity* [scfm^]	570	850	990	1200
II. REFRIGERATION SYSTEM DATA				
BTU/HR - Refrigeration **ARI**	22600	33800	39950	49350
Refrigerant type	R-513A	R-513A	R-513A	R-513A
Refrigerant charge [lbs]	6.7	6.2	7.8	9.7
III. ELECTRICAL DATA				
Nominal Voltage	575/3/60	575/3/60	575/3/60	575/3/60
Min-max voltage	518V-633V**	518V-633V**	518V-633V**	518V-633V**
Unit Protection fuse size (amps)	10	10	15	15
Amperage Draw + ***	3.9	4.8	5.5	7.2
Compressor Full Load Amps	4.6	5.7	6.6	8.6
Compressor Locked Rotor Amps	45	60	70	74
Branch circuit fuse size (amps) primary	0.5	0.5	0.5	0.5
secondary	2	2	2	2
Max Power Consumption [kW] ***	2.8	4.5	4.5	5.7
Power Consumption according to ISO 7183 Option A2 [kW] ***	1.75	2.4	2.8	3.5
IV. GENERAL INFORMATION				
Envelope dimensions - W x D x H [in]	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4	32-7/8 x 48-3/8 x 78-3/4
Weight [lbs]	775	840	875	935
Noise level measured in dB(A) at 1 m (approx. 40 in) ****	70	70	70	70
Control Cabinet Class [NEMA]	12	12	12	12
Air inlet/outlet connections	2 1/2" ASME class 150	3" ASME class 150	3" ASME class 150	3" ASME class 150
Water inlet/outlet connections [NPT]	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Drain connection	1/4 " NPT	1/4 NPT	1/4 NPT	1/4 NPT
V. WALL CLEARANCES				

[1]If Clearances cannot be met, please consult factory.

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

For water-cooled units, disregard "A" and "B"



VI. WATER-COOLING DATA				
Cooling water flow rate with 85°F water [gal/min]	2.5	3.4	5.6	5.6
Cooling water pressure drop at rated flow [psi]	2.9	4.5	6.5	8.6
Cooling water temperature rise [°F]	20	10	14	17
Maximum inlet pressure (cooling water) [psi]	145	145	145	145
Maximum pressure drop between inlet and outlet (cooling water) [psi]	50	50	50	50

* 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

\+ 460V: Total full load amps, Other Voltages: Total full load amps of transformer

** with transformer

*** without high ambient option

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

Note: See Service Manual for complete details