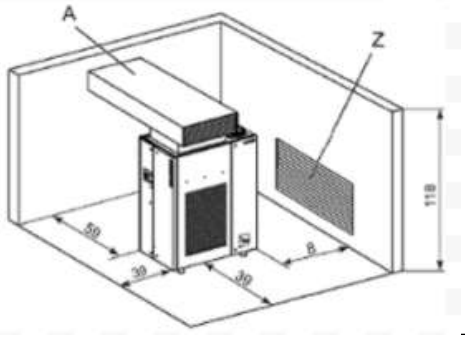
DRYER DATA SHEET

Doc. No.: TI-IDS-220	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS	Date: 05/13/2021
Version: 1.0	TG SERIES - Air-cooled	Page: 1 of 1

MODEL	TG 450	TG 520	TG 650	TG 780	TG 980
I. MINIMUM-MAXIMUM OPERATING CONDITIONS					
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	232	232	188	188	188
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	140	140	140	140	140
Min-Max ambient temperature [°F]	38-120	38-120	38-120	38-120	38-120
Nominal pressure drop at rated flow [psid]	1.5	2.1	1.2	1.9	2.9
Rated dew point* [°F]	39	39	39	39	39
Rated capacity* [scfm^]	1340	1550	1910	2330	3070
II. REFRIGERATION SYSTEM DATA					
BTU/HR - Refrigeration **ARI**	45210	55980	67600	98610	147920
Refrigerant type	R-513A	R-513A	R-513A	R-513A	R-513A
Refrigerant charge [lbs]	9.5	9.6	14.1	13.3	17.5
III. ELECTRICAL DATA					
Nominal Voltage	575/3/60	575/3/60	575/3/60	575/3/60	575/3/60
Min-max voltage	518V-633V**	518V-633V**	518V-633V**	518V-633V**	518V-633V**
Unit Protection fuse size (amps)	20	20	25	30	50
Total full load amps	13.3	15.2	16.9	20.6	33.8
Compressor full load amps	10.3	12.2	13.9	17.6	29.3
Compressor locked rotor amps	45	60	70	74	74
Branch circuit fuse size (amps) primary	3.2	3.2	3.2	3.2	3.2
secondary	--	--	--	--	--
Max power consumption [kW]	8.7	9.9	10.6	13.6	22.4
Power consumption according to ISO 7183 Option A2 [kW]	5.1	6.0	7.2	9.0	14.9
IV. GENERAL INFORMATION					
Envelope dimensions - W x D x H [in]	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4
Weight [lbs]	1405	1450	1555	1545	1685
Noise level measured in dB(A) at 1 m (approx. 40 in) **	70	70	70	70	70
Control cabinet class [NEMA]	12	12	12	12	12
Air inlet/outlet connections [flange]	4" ASME class 150	4" ASME class 150	6" ASME class 150	6" ASME class 150	6" ASME class 150
Drain connection	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
V. DUCTING INFORMATION					
Max. Additional Pressure Drop for Ducts [in. of Water Column]	5/8	5/8	5/8	5/8	5/8
Exhaust Air Opening Reference Dimensions (L x W) [in] **A*** **	39.3 x 33.1	39.3 x 33.1	39.3 x 33.1	39.3 x 33.1	39.3 x 33.1
Air Inlet Opening [sq. ft. **free area**] (A/C) **Z**	6.5	7.5	8.6	9.7	14.0
Air flow across condenser (cfm)	2940	3880	4180	5000	7360
VI. SERVICE/AIRFLOW CLEARANCES[1] (inches)					

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

Cooling airflow: "A" = Exhaust Air Opening
"Z" = Air Inlet Opening



* 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

*** See drawing for actual dimensions. The actual individual duct dimension will vary for every installation based on actual length, number and type of bends, accessories etc.

Note: See Service Manual for complete details

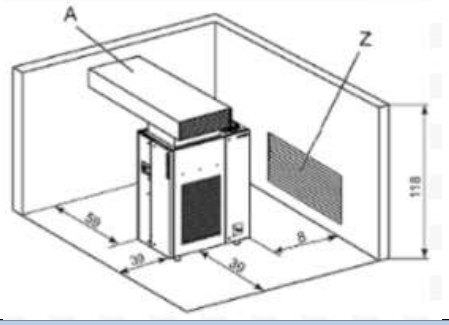
DRYER DATA SHEET

Doc. No.: TI-IDS-221	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS	Date: 05/13/2021
Version: 1.0	TG SERIES - Water-cooled	Page: 1 of 1

MODEL	TG 450	TG 520	TG 650	TG 780	TG 980
I. MINIMUM-MAXIMUM OPERATING CONDITIONS					
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	232	232	188	188	188
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	140	140	140	140	140
Min-Max ambient temperature [°F]	38-120	38-120	38-120	38-120	38-120
Nominal pressure drop at rated flow [psid]	2.0	2.8	1.5	2.2	3.5
Rated dew point* [°F]	39	39	39	39	39
Rated capacity* [scfm^]	1589	1836	2190	2684	3355
II. REFRIGERATION SYSTEM DATA					
BTU/HR - Refrigeration **ARI**	45210	55980	67600	98610	147920
Refrigerant type	R-513A	R-513A	R-513A	R-513A	R-513A
Refrigerant charge [lbs]	9.0	8.8	13.5	12.6	17.2
III. ELECTRICAL DATA					
Nominal Voltage	575/3/60	575/3/60	575/3/60	575/3/60	575/3/60
Min-max voltage	518V-633V**	518V-633V**	518V-633V**	518V-633V**	518V-633V**
Unit Protection fuse size (amps)	20	20	25	30	50
Total full load amps	10.4	12.1	13.9	16.8	27.3
Compressor full load amps	10.4	12.1	13.9	16.8	27.3
Compressor locked rotor amps	45	60	70	74	74
Branch circuit fuse size (amps) primary	3.2	3.2	3.2	3.2	3.2
secondary	--	--	--	--	--
Max power consumption [kW]	6.5	7.8	9.0	10.6	17.6
Power consumption according to ISO 7183 Option A2 [kW]	4.3	4.8	5.6	6.6	10.6
IV. GENERAL INFORMATION					
Envelope dimensions - W x D x H [in]	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4	40-3/8 x 65-1/8 x 83-3/4
Weight [lbs]	1372	1418	1519	1511	1650
Noise level measured in dB(A) at 1 m (approx. 40 in) **	70	70	70	70	70
Control cabinet class [NEMA]	12	12	12	12	12
Air inlet/outlet connections	4" ASME class 150	4" ASME class 150	6" ASME class 150	6" ASME class 150	6" ASME class 150
Water inlet/outlet connections	1-1/4" NPT	1-1/4" 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	1/4 NPT
V. WALL CLEARANCES					
VI. WATER-COOLING DATA					
Cooling water flow rate with 85°F water [gal/min]	7.2	7.5	11.3	16.2	17.4
Cooling water pressure drop at rated flow [psi]	6.5	7.1	4.5	8.7	10.2
Cooling water temperature rise [°F]	16.6	18.4	14.0	11.7	16.6
Maximum inlet pressure (cooling water) [psi]	145	145	145	145	145
Maximum pressure drop between inlet and outlet (cooling water) [psi]	50	50	50	50	50

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

Cooling airflow: "A" = Exhaust Air Opening
"Z" = Air Inlet Opening



Ducting not required for water-cooled units

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

* 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