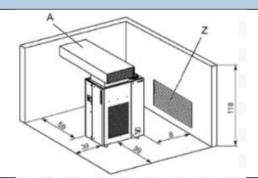
Page: 1 of 1   Page	COMPRESSORS DRYER DATA SHEET						
MODEL   TG 450   TG 520   TG 650   TG 780   TG 980	Doc. No.: TI-IDS-220		KAESER SECOTECT	Date: 05/13/2021			
Maximum inlet air pressure (compressed air air linet to dryer) [pist]   232   232   188	Version: 1,0		TG SERIES - Air-cooled				
Assimum in let air pressure (compressed air at inlet to dryer) [psig]   232   232   188	MODEL		TG 450	TG 520	TG 650	TG 780	TG 980
Maximum inlet air temperature (compressed air at inlet to dryer) ["F]	I. MINIMUM-MAXIMUM OPERATING CO	ONDITIONS					
Min-Max ambient temperature   F    38-120   38-120   38-120   38-120   38-120   38-120	Maximum inlet air pressure (compressed	air at inlet to dryer) [psig]	232	232	188	188	188
Nominal pressure drop at rated flow [psid] 1.5 2.1 1.2 1.9 2.9  Alated dew point" [*F] 39 39 39 39 39 39 39 39 39 39 39 39 39	Maximum inlet air temperature (compress	sed air at inlet to dryer) [°F]	140	140	140	140	140
Rated dew point" [*F] 39 39 39 39 39 39 39 39 39 39 39 39 39	Min-Max ambient temperature [°F]		38-120	38-120	38-120	38-120	38-120
Rated capacity   scfm    1340   1550   1910   2330   3070	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
### Refrigeration ARI ### A5210	Rated capacity* [scfm^]		1340	1550	1910	2330	3070
Refrigerant type Refrigerant States System Refrigerant States System Refrigerant States System Refrigerant S	II. REFRIGERATION SYSTEM DATA						
Refrigerant charge [lbs] 9.5 9.6 14.1 13.3 17.5	BTU/HR - Refrigeration ARI		45210	55980	67600	98610	147920
	Refrigerant type		R-513A	R-513A	R-513A	R-513A	R-513A
Standard	Refrigerant charge [lbs]		9.5	9.6	14.1	13.3	17.5
Stave   Stav	III. ELECTRICAL DATA						<b>'</b>
Dilit Protection fuse size (amps)   20   20   25   30   50	Nominal Voltage		575/3/60	575/3/60	575/3/60	575/3/60	575/3/60
Total full load amps	Min-max voltage		518V-633V**	518V-633V**	518V-633V**	518V-633V**	518V-633V**
Compressor full load amps	Unit Protection fuse size (amps)		20	20	25	30	50
A5   60   70   74   74   74   74   74   74   7	Total full load amps		13.3	15.2	16.9	20.6	33.8
Stranch circuit fuse size (amps)   primary   3.2   3	Compressor full load amps		10.3	12.2	13.9	17.6	29.3
Secondary	Compressor locked rotor amps		45	60	70	74	74
Max power consumption [kW] 8.7 9.9 10.6 13.6 22.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.	Branch circuit fuse size (amps)	primary	3.2	3.2	3.2	3.2	3.2
Power consumption according to ISO 7183 Option A2 [kW] 5.1 6.0 7.2 9.0 14.9  V. 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		secondary	-	-	_	-	
Variety   Vari	Max power consumption [kW]		8.7	9.9	10.6	13.6	22.4
Envelope dimensions - W x D x H [in]  40-3/8 x 65-1/8 x 83-3/4  40-3/8	Power consumption according to ISO 718	3 Option A2 [kW]	5.1	6.0	7.2	9.0	14.9
Weight [lbs]         1405         1450         1555         1545         1685           Noise level measured in dB(A) at 1 m (approx. 40 in) **         70	IV. GENERAL INFORMATION						
Noise level measured in dB(A) at 1 m (approx. 40 in) **  70  70  70  70  70  70  70  70  70	Envelope dimensions - W x D x H [in]		40-3/8 x 65-1/8 x 83-3/4				
12   12   12   12   12   12   12   12	Weight [lbs]		1405	1450	1555	1545	1685
Air inlet/outlet connections [flange] 4" ASME class 150 4" ASME class 150 6" ASME cl	Noise level measured in dB(A) at 1 m (approx. 40 in) **		70	70	70	70	70
Drain connection         1/4 NPT	Control cabinet class [NEMA]		12	12	12	12	12
W. DUCTING INFORMATION         S/8         5/8	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
Max. Additional Pressure Drop for Ducts [in. of Water Column] 5/8 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  Air Inlet Opening [sq. ft. free area] (A/C) Z 6.5 7.5 8.6 9.7 14.0	Drain connection		1/4 NPT				
Exhaust Air Opening Reference Dimensions (L x W) [in] A***       39.3 x 33.1       <	V. DUCTING INFORMATION						
Exhaust Air Opening Reference Dimensions (L x W) [in] A***       39.3 x 33.1       <	Max. Additional Pressure Drop for Ducts [in. of Water Column]		5/8	5/8	5/8	5/8	5/8
Air Inlet Opening [sq. ft. free area] (A/C) Z 6.5 7.5 8.6 9.7 14.0	Exhaust Air Opening Reference Dimensions (L x W) [in] A***		39.3 x 33.1				
Air flow across condenser (cfm) 2940 3880 4180 5000 7360	Air Inlet Opening [sq. ft. free area] (A/C) Z						
	Air flow across condenser (cfm)		2940	3880	4180	5000	7360

## VI. SERVICE/AIRFLOW CLEARANCES¹ (inches)

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

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



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

Note: See Service Manual for complete details

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

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

<sup>\*\*\*</sup> 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.

KAESER COMPRESSORS		DRYER D	ATA SHE	ET			
Doc. No.: TI-IDS-221	KAESER SECOTEC™ REFRIGERATED CYCLING DRYERS						
Version: 1.0	TG SERIES - Water-cooled					Page: 1 of 1	
MODE	L	TG 450	TG 520	TG 650	TG 780	TG 980	
I. MINIMUM-MAXIMUM OPERATING C	ONDITIONS						
Maximum inlet air pressure (compressed	air at inlet to dryer) [psig]	232	232	188	188	188	
Maximum inlet air temperature (compress	sed 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	i]	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**	518 <b>V-</b> 633 <b>V</b> **	518 <b>V-</b> 633 <b>V</b> **	518 <b>V-</b> 633 <b>V</b> **	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	

1-1/4" NPT

1/4 NPT

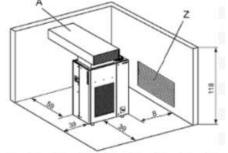
## V. WALL CLEARANCES

Drain connection

Water inlet/outlet connections

1If Clearances cannot be met, please consult factory.

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



1-1/4" NPT

1/4 NPT

1-1/4" NPT

1/4 NPT

1-1/4" NPT

1/4 NPT

## Ducting not required for water-cooled units

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

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			

1-1/4" NPT

1/4 " NPT

Note: See Service Manual for complete details

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

<sup>^</sup> SCFM = Standard Cubic Foot per Minute at 68°F, 0% Relative Humidity, and 14.5 psia

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