

How it works

Model	Flow rate m³/min	Refrigeration dryer pressure loss bar	Electrical power consumption at 100 % vol. kW	Gauge pressure bar	Mass kg	Dimensions W x D x H mm	Compressed air connection	Condensate outlet connection	Electrical supply	Refrigerant mass R-513A kg	Refrigerant mass R-513A as CO₂ equivalent t	Hermetic refrigerant circuit		
TAH 5	0.35	0.05	0.12	3 to 16	24	386 x 473 x 440	G ½	G ¼	230 V / 1 Ph / 50 Hz	0.15	0.09	•		
TAH 7	0.60	0.13	0.17		24					0.19	0.12	•		
TAH 10	0.80	0.15	0.19		26					0.21	0.13	•		
TBH 14	1.20	0.21	0.29	3 to 16	33	462 x 525 x 548	G ½	G ¼	230 V / 1 Ph / 50 Hz	0.29	0.18	•		
TBH 16	1.60	0.24	0.40		38					0.44	0.28	•		
TBH 23	2.20	0.23	0.47		46					0.49	0.31	•		
TCH 27	2.60	0.18	0.51	3 to 16	56	640 x 663 x 609	G 1	G ¼	230 V / 1 Ph / 50 Hz	0.62	0.39	–		
TCH 33	3.15	0.19	0.60		66					0.74	0.47	–		
TCH 36	3.50	0.21	0.68		69		G 1¼			0.75	0.47	–		
TCH 45	4.50	0.18	0.94		75					1.15	0.73	–		

^{a)} Suitable for ambient temperatures from +3 °C to +50 °C. Max. compressed air inlet temperature +60 °C

Performance data at reference conditions as per ISO 7183, option A1: Ambient temperature +25 °C, compressed air inlet temperature +35 °C, pressure dew point +3 °C and 7 bar gauge pressure. The flow rate will change under different operating conditions. Contains fluorinated greenhouse gas R-513A (GWP = 631)

Calculation of dryer flow rate

Correction factors for deviating operating conditions (flow rates in m³/min x k...)

Deviating working pressure p at dryer inlet														
p bar _(g)	3	4	5	6	7	8	9	10	11	12	13	14	15	16
k _p	0.64	0.75	0.84	0.92	1.00	1.05	1.09	1.12	1.16	1.19	1.22	1.24	1.26	1.27

Compressed air inlet temperature T _i							Ambient temperature T _a							
T _i (°C)	30	35	40	45	50	55	60	T _a (°C)	25	30	35	40	45	50
k _{Ti}	1.19	1.00	0.80	0.66	0.51	0.43	0.35	k _{Ta}	1.00	0.96	0.92	0.88	0.85	0.80

Example:							Selected refrigeration dryer TAH 10 with 0.8 m³/min (V _{reference})							
Gauge working pressure:	10 bar _(g) (See table)			k _p	= 1.12			Max. possible flow rate under operating conditions						
Compressed air inlet temperature:	+40 °C (See table)			k _{Ti}	= 0.80			V _{max} Operation = V _{reference} × k _p × k _{Ti} × k _{Ta}						
Ambient temperature:	+30 °C (See table)			K _{Ta}	= 0.96			V _{max} Operation = 0.8 m³/min × 1.12 × 0.80 × 0.96 = 0.69 m³/min						