

Type: Semi-hermetic piston two stage compressors

Producer: Copeland

Series: D6T

Model: D6TA-1500

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder count:	4	2
Displacement [m ³ /h]:	56	28
Weight gross [kg]:		4,3
Oil charge [dm ³]:		1 5/8"

Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	174
Max. operating current [A]:	30,1
Nominal motor power [kW]:	15

Connections

	<u>milimeters</u>	<u>inches</u>
Króciec ssawny:		1 5/8"
Discharge line:		1 3/8"

R22

Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	6.49	8.52	11.01	14.02	17.64	21.91	26.93
30	6.18	8.13	10.53	13.42	16.88	20.98	25.79
35	5.87	7.76	10.05	12.81	16.12	20.04	24.65
40	5.57	7.38	9.57	12.21	15.36	19.10	23.50
45	5.29	7.02	9.11	11.61	14.61	18.17	22.35
50	-	6.67	8.65	11.02	13.86	17.23	21.20
55	-	6.34	8.21	10.45	13.12	16.30	20.06

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	5.88	6.53	7.19	7.87	8.53	9.18	9.80
30	6.10	6.80	7.54	8.30	9.07	9.83	10.58
35	6.33	7.08	7.89	8.73	9.60	10.48	11.36
40	6.56	7.37	8.24	9.17	10.13	11.13	12.14
45	6.81	7.66	8.60	9.61	10.68	11.79	12.92
50	-	7.98	8.98	10.07	11.23	12.45	13.72
55	-	8.31	9.38	10.55	11.80	13.13	14.52

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	12.47	13.28	14.14	15.05	15.97	16.88	17.78
30	12.74	13.63	14.60	15.64	16.72	17.83	18.94
35	13.02	13.99	15.07	16.24	17.49	18.79	20.13
40	13.32	14.37	15.55	16.86	18.28	19.77	21.33
45	13.64	14.77	16.06	17.51	19.09	20.78	22.56
50	-	15.19	16.60	18.19	19.93	21.82	23.82
55	-	15.65	17.17	18.90	20.81	22.89	25.12

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	118.55	156.24	202.17	257.93	325.07	405.17	499.81
30	116.60	154.08	199.69	255.00	321.57	400.99	494.82
35	114.74	151.96	197.19	252.00	317.95	396.63	489.60
40	113.08	149.98	194.77	249.02	314.30	392.18	484.23
45	111.69	148.22	192.52	246.15	310.70	387.73	478.81
50	-	146.78	190.52	243.49	307.25	383.36	473.41

55	-	145.73	188.88	241.12	304.03	379.18	468.14
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C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	1.10	1.30	1.53	1.78	2.07	2.39	2.75
30	1.01	1.20	1.40	1.62	1.86	2.13	2.44
35	0.93	1.10	1.27	1.47	1.68	1.91	2.17
40	0.85	1.00	1.16	1.33	1.52	1.72	1.94
45	0.78	0.92	1.06	1.21	1.37	1.54	1.73
50	-	0.84	0.96	1.09	1.23	1.38	1.55
55	-	0.76	0.88	0.99	1.11	1.24	1.38

Application range

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	Maximum evaporating temperature
	25°C suction gas temperature

Operating conditions: ISO; subcooling: 0 K, return gas temperature: 20 °C

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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L	755 mm
B	585 mm
H	575 mm