

Model: D6TH-2000

Data

Type: Semi-hermetic piston two stage compressors

Producer: Copeland

Series: D6T

Model: D6TH-2000

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder count:	4	2
Displacement [m ³ /h]:	70,8	35,4
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]:	37,3
Nominal motor power [kW]:	20

Connections

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

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Capacity

R22

Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	8.20	10.79	13.97	17.82	22.44	27.90	34.29
30	7.79	10.30	13.35	17.04	21.46	26.70	32.84
35	7.39	9.80	12.73	16.26	20.49	25.49	31.37
40	7.01	9.32	12.11	15.48	19.51	24.29	29.90
45	6.64	8.85	11.51	14.71	18.54	23.08	28.42
50	-	8.39	10.92	13.95	17.57	21.88	26.95
55	-	7.96	10.35	13.20	16.62	20.69	25.48

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	7.24	8.19	9.20	10.25	11.33	12.42	13.52
30	7.50	8.52	9.61	10.77	11.97	13.21	14.46
35	7.75	8.84	10.02	11.28	12.61	13.98	15.40
40	8.02	9.17	10.44	11.80	13.24	14.75	16.33
45	8.30	9.52	10.86	12.32	13.88	15.53	17.26
50	-	9.88	11.30	12.85	14.53	16.31	18.19
55	-	10.26	11.75	13.40	15.19	17.11	19.14

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	16.67	17.74	18.95	20.26	21.66	23.13	24.65
30	16.95	18.12	19.45	20.92	22.51	24.21	26.00
35	17.24	18.50	19.96	21.59	23.38	25.30	27.35
40	17.54	18.90	20.49	22.28	24.26	26.41	28.71
45	17.87	19.33	21.04	22.99	25.16	27.54	30.10
50	-	19.77	21.61	23.72	26.09	28.69	31.51
55	-	20.26	22.22	24.49	27.05	29.88	32.96

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	149.86	197.98	256.62	327.80	413.52	515.78	636.59
30	147.15	195.01	253.25	323.86	408.86	510.26	630.05
35	144.55	192.08	249.83	319.81	404.02	504.48	623.19
40	142.15	189.28	246.48	315.76	399.12	498.57	616.12
45	140.08	186.74	243.32	311.82	394.25	492.62	608.94
50	-	184.57	240.45	308.11	389.54	486.76	601.78

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Capacity

55	-	182.87	237.99	304.73	385.09	481.10	594.74
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Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	1.13	1.32	1.52	1.74	1.98	2.25	2.54
30	1.04	1.21	1.39	1.58	1.79	2.02	2.27
35	0.95	1.11	1.27	1.44	1.63	1.82	2.04
40	0.87	1.02	1.16	1.31	1.47	1.65	1.83
45	0.80	0.93	1.06	1.19	1.34	1.49	1.65
50	-	0.85	0.97	1.09	1.21	1.34	1.48
55	-	0.78	0.88	0.99	1.09	1.21	1.33

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]