

Type: Semi-hermetic piston two stage compressors

Producer: Copeland

Series: D6T

Model: D6TH-2000 SUB

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"

R22

Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	9.76	12.28	15.36	19.09	23.55	28.84	35.06
30	9.62	12.12	15.17	18.85	23.26	28.49	34.63
35	9.45	11.93	14.95	18.58	22.94	28.10	34.16
40	9.25	11.70	14.68	18.27	22.57	27.66	33.64
45	8.99	11.42	14.36	17.90	22.14	27.16	33.06
50	-	11.07	13.97	17.46	21.64	26.59	32.41
55	-	10.65	13.50	16.94	21.06	25.94	31.68

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	7.84	8.64	9.49	10.38	11.28	12.19	13.09
30	8.26	9.13	10.07	11.07	12.10	13.16	14.22
35	8.68	9.63	10.67	11.79	12.96	14.17	15.40
40	9.08	10.13	11.28	12.53	13.84	15.21	16.63
45	9.47	10.62	11.90	13.28	14.75	16.30	17.90
50	-	11.10	12.51	14.04	15.68	17.41	19.21
55	-	11.57	13.12	14.81	16.62	18.54	20.56

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	16.98	18.03	19.18	20.39	21.65	22.92	24.19
30	17.53	18.69	19.98	21.35	22.79	24.28	25.80
35	18.08	19.37	20.80	22.35	24.00	25.72	27.49
40	18.62	20.05	21.65	23.39	25.26	27.23	29.27
45	19.15	20.73	22.50	24.46	26.56	28.79	31.12
50	-	21.40	23.37	25.54	27.90	30.40	33.04
55	-	22.05	24.23	26.64	29.26	32.06	35.02

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	177.90	225.27	282.35	351.27	434.21	533.29	650.68
30	181.64	229.72	287.87	358.26	443.03	544.32	664.30
35	185.00	233.96	293.38	365.41	452.19	555.89	678.64
40	187.74	237.77	298.64	372.50	461.49	567.77	693.49
45	189.65	240.95	303.45	379.32	470.71	579.76	708.62
50	-	243.26	307.59	385.66	479.63	591.63	723.83

55	-	244.51	310.85	391.31	488.03	603.18	738.90
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C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	1.24	1.42	1.62	1.84	2.09	2.37	2.68
30	1.16	1.33	1.51	1.70	1.92	2.17	2.44
35	1.09	1.24	1.40	1.58	1.77	1.98	2.22
40	1.02	1.16	1.30	1.46	1.63	1.82	2.02
45	0.95	1.08	1.21	1.35	1.50	1.67	1.85
50	-	1.00	1.12	1.24	1.38	1.53	1.69
55	-	0.92	1.03	1.14	1.27	1.40	1.54

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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Dimensions

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L	755 mm
B	585 mm
H	575 mm