

Type: Semi-hermetic piston two stage compressors

Producer: Copeland

Series: D6T

Model: D6TH-200 X

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"

R404A/R507

Cooling capacity [kW]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	4.27	5.83	7.86	10.41	13.50	17.16	21.42	26.32	31.89
35	3.98	5.44	7.34	9.71	12.58	15.98	19.95	24.51	29.69
40	3.72	5.09	6.86	9.05	11.71	14.86	18.53	22.75	27.56
45	3.45	4.74	6.38	8.40	10.85	13.75	17.13	21.02	25.45
50	3.14	4.35	5.86	7.73	9.97	12.62	15.71	19.28	23.35
55	2.76	3.89	5.28	6.99	9.03	11.44	14.25	17.50	21.20

Power input [kW]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	6.43	7.56	8.75	9.97	11.20	12.44	13.66	14.85	16.01
35	6.79	7.97	9.22	10.51	11.84	13.19	14.54	15.88	17.20
40	6.95	8.17	9.48	10.85	12.27	13.73	15.22	16.71	18.20
45	7.03	8.30	9.66	11.11	12.63	14.21	15.83	17.47	19.12
50	7.17	8.47	9.90	11.43	13.05	14.74	16.49	18.29	20.11
55	7.48	8.83	10.32	11.93	13.65	15.46	17.35	19.29	21.29

Current [A]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	16.17	17.46	18.84	20.32	21.89	23.54	25.27	27.07	28.95
35	16.55	17.88	19.33	20.92	22.62	24.45	26.38	28.43	30.58
40	16.76	18.13	19.67	21.36	23.22	25.23	27.38	29.68	32.12
45	16.89	18.32	19.95	21.77	23.78	25.99	28.37	30.94	33.68
50	17.06	18.55	20.28	22.24	24.42	26.83	29.45	32.29	35.34
55	17.36	18.92	20.76	22.87	25.23	27.85	30.73	33.85	37.21

Mass flow [kg/s]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	101.40	139.94	189.35	250.88	325.81	415.40	520.93	643.67	784.87
35	100.41	138.24	186.71	247.10	320.67	408.69	512.44	633.18	772.17
40	99.75	137.09	184.86	244.34	316.78	403.46	505.65	624.62	761.64
45	98.76	135.84	183.14	241.92	313.47	399.04	499.91	617.34	752.60
50	96.76	133.81	180.86	239.19	310.07	394.76	494.53	610.65	744.39
55	93.08	130.33	177.37	235.47	305.91	389.94	488.85	603.89	736.34

C.O.P. [W/W]

t_c \ t_e	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	0.66	0.77	0.90	1.04	1.21	1.38	1.57	1.77	1.99
35	0.59	0.68	0.80	0.92	1.06	1.21	1.37	1.54	1.73
40	0.54	0.62	0.72	0.83	0.95	1.08	1.22	1.36	1.51
45	0.49	0.57	0.66	0.76	0.86	0.97	1.08	1.20	1.33
50	0.44	0.51	0.59	0.68	0.76	0.86	0.95	1.05	1.16
55	0.37	0.44	0.51	0.59	0.66	0.74	0.82	0.91	1.00

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	757 mm