

Type: Semi-hermetic piston two stage compressors
Producer: Copeland
Series: D6T

Model: D6TJ-250 X

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder count:	4	2
Displacement [m ³ /h]:	84,7	42,4
Weight gross [kg]:		7,4
Oil charge [dm ³]:		1 5/8"

Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	203
Max. operating current [A]:	40,2
Nominal motor power [kW]:	25

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	5.20	6.89	9.22	12.19	15.80	20.07	24.99	30.57	36.82
35	4.85	6.44	8.62	11.41	14.80	18.80	23.42	28.66	34.52
40	4.49	5.98	8.03	10.64	13.81	17.55	21.87	26.76	32.24
45	4.12	5.53	7.44	9.88	12.83	16.32	20.34	24.89	29.99
50	3.75	5.07	6.86	9.12	11.86	15.10	18.82	23.04	27.77
55	3.38	4.61	6.27	8.37	10.91	13.89	17.33	21.22	25.57

Power input [kW]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	7.50	8.49	9.69	11.06	12.57	14.20	15.92	17.69	19.48
35	7.75	8.76	10.01	11.45	13.07	14.83	16.70	18.65	20.65
40	7.99	9.03	10.32	11.85	13.57	15.45	17.47	19.60	21.80
45	8.22	9.29	10.63	12.23	14.06	16.07	18.24	20.55	22.96
50	8.45	9.54	10.94	12.62	14.54	16.68	19.01	21.50	24.11
55	8.67	9.79	11.24	12.99	15.02	17.29	19.77	22.43	25.25

Current [A]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	19.62	20.75	22.17	23.84	25.75	27.86	30.16	32.63	35.23
35	19.90	21.06	22.55	24.33	26.39	28.70	31.24	33.99	36.93
40	20.19	21.37	22.92	24.82	27.03	29.54	32.33	35.37	38.64
45	20.46	21.67	23.29	25.30	27.68	30.39	33.43	36.76	40.37
50	20.73	21.97	23.66	25.79	28.33	31.25	34.53	38.16	42.11
55	20.98	22.25	24.02	26.27	28.97	32.10	35.64	39.57	43.85

Mass flow [kg/s]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	123.60	165.17	221.63	293.58	381.59	486.25	608.14	747.85	905.94
35	122.66	163.49	219.15	290.25	377.36	481.06	601.94	740.58	897.56
40	120.60	161.06	216.30	286.92	373.50	476.62	596.86	734.81	891.04
45	117.97	158.43	213.63	284.15	370.57	473.48	593.46	731.09	886.95
50	115.33	156.17	211.69	282.48	369.12	472.19	592.28	729.96	885.83
55	113.21	154.80	211.02	282.46	369.69	473.30	593.87	731.99	888.23

C.O.P. [W/W]

$t_c \setminus t_e$	-60	-55	-50	-45	-40	-35	-30	-25	-20
30	0.69	0.81	0.95	1.10	1.26	1.41	1.57	1.73	1.89
35	0.63	0.73	0.86	1.00	1.13	1.27	1.40	1.54	1.67
40	0.56	0.66	0.78	0.90	1.02	1.14	1.25	1.37	1.48
45	0.50	0.60	0.70	0.81	0.91	1.02	1.11	1.21	1.31
50	0.44	0.53	0.63	0.72	0.82	0.90	0.99	1.07	1.15
55	0.39	0.47	0.56	0.64	0.73	0.80	0.88	0.95	1.01

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	630 mm