

Type: Semi-hermetic piston two stage compressors

Producer: Copeland

Series: D9T

Model: D9TK-0760

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder count:	2	1
Displacement [m ³ /h]:	21,6	10,8
Weight gross [kg]:		3,6
Oil charge [dm ³]:		1 3/8"

Electrical data

Power supply [V/~/Hz]:	7/8"
Locked rotor current [A]:	78
Max. operating current [A]:	11,8
Nominal motor power [kW]:	7,5

Connections

	<u>milimeters</u>	<u>inches</u>
Króciec ssawny:		1 3/8"
Discharge line:	380-420V/3/50Hz	

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Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30
30	1.94	2.58	3.36	4.31	5.44
35	1.85	2.47	3.23	4.15	5.24
40	1.76	2.37	3.10	3.98	5.04
45	1.68	2.26	2.96	3.82	4.84
50	1.59	2.15	2.83	3.65	4.63
55	1.51	2.05	2.70	3.49	4.43

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30
30	2.11	2.40	2.71	3.04	3.39
35	2.23	2.54	2.87	3.23	3.62
40	2.35	2.68	3.04	3.44	3.86
45	2.48	2.84	3.22	3.65	4.11
50	2.62	3.00	3.41	3.87	4.36
55	2.77	3.17	3.61	4.10	4.63

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30
30	5.60	6.06	6.58	7.17	7.83
35	5.78	6.28	6.87	7.53	8.29
40	5.98	6.53	7.18	7.93	8.78
45	6.19	6.80	7.51	8.35	9.31
50	6.42	7.09	7.88	8.81	9.88
55	6.68	7.41	8.28	9.31	10.49

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30
30	36.67	48.89	63.80	81.87	103.58
35	36.21	48.46	63.41	81.53	103.29
40	35.76	48.04	63.03	81.21	103.04
45	35.34	47.66	62.70	80.93	102.83
50	34.97	47.32	62.42	80.71	102.68
55	34.65	47.05	62.21	80.57	102.62

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30
30	0.92	1.08	1.24	1.42	1.60
35	0.83	0.97	1.12	1.28	1.45
40	0.75	0.88	1.02	1.16	1.31
45	0.68	0.80	0.92	1.05	1.18
50	0.61	0.72	0.83	0.94	1.06
55	0.55	0.65	0.75	0.85	0.96

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	655 mm
B	385 mm
H	540 mm