

Model: D6DT-320 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D6DT-320 X

Technical data

Cylinder count:	6
Displacement [m ³ /h]:	127
Weight [kg]:	277
Oil charge [dm ³]:	7,4
Max. operating current [A]:	55
Locked rotor current [A]:	218
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>millimeters</u>	<u>inches</u>
Suction line:		2 1/8"
Discharge line:		1 3/8"

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Capacity

R404A/R507

Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	14.67	19.69	25.85	33.32	42.24	52.76	65.06	79.27	95.56
25	13.26	18.00	23.78	30.76	39.09	48.93	60.43	73.75	89.04
30	11.84	16.31	21.71	28.21	35.97	45.12	55.84	68.28	82.59
35	10.43	14.63	19.66	25.69	32.88	41.36	51.30	62.86	76.19
40	-	12.95	17.63	23.20	29.82	37.63	46.81	57.50	69.86
45	-	11.29	15.61	20.73	26.79	33.95	42.37	52.19	-
50	-	-	13.62	18.28	23.80	30.31	37.97	46.94	-
55	-	-	11.64	15.87	20.84	26.71	33.62	41.75	-

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	9.00	10.66	12.40	14.17	15.93	17.63	19.22	20.66	21.90
25	9.15	10.92	12.81	14.76	16.74	18.70	20.59	22.36	23.98
30	9.25	11.12	13.13	15.26	17.44	19.64	21.81	23.90	25.86
35	9.33	11.27	13.39	15.67	18.04	20.46	22.89	25.28	27.58
40	-	11.38	13.60	16.00	18.54	21.17	23.84	26.51	29.12
45	-	11.46	13.75	16.27	18.96	21.78	24.67	27.60	-
50	-	-	13.87	16.48	19.31	22.29	25.39	28.57	-
55	-	-	13.96	16.65	19.58	22.72	26.01	29.41	-

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Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	20.63	22.87	25.34	27.96	30.63	33.30	35.86	38.24	40.36
25	20.19	22.58	25.30	28.26	31.39	34.61	37.82	40.96	43.94
30	20.11	22.61	25.53	28.81	32.35	36.07	39.90	43.75	47.54
35	20.28	22.84	25.93	29.47	33.38	37.58	41.97	46.50	51.06
40	-	23.17	26.38	30.15	34.38	39.00	43.93	49.08	54.38
45	-	23.46	26.76	30.70	35.22	40.22	45.64	51.38	-
50	-	-	26.94	31.03	35.79	41.13	46.99	53.28	-
55	-	-	26.82	31.00	35.96	41.61	47.87	54.66	-

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	303.44	423.79	565.04	732.68	932.22	1 169.14	1 448.96	1 777.15	2 159.23
25	291.36	408.15	545.60	709.19	904.43	1 136.81	1 411.83	1 734.99	2 111.79
30	277.44	390.78	524.53	684.18	875.22	1 103.17	1 373.50	1 691.73	2 063.35
35	261.87	371.86	502.01	657.82	844.78	1 068.39	1 334.15	1 647.55	2 014.10
40	-	351.58	478.24	630.31	813.29	1 032.67	1 293.95	1 602.63	1 964.21
45	-	330.11	453.38	601.82	780.93	996.18	1 253.10	1 557.16	-
50	-	-	427.63	572.55	747.88	959.12	1 211.77	1 511.32	-
55	-	-	401.17	542.67	714.33	921.66	1 170.15	1 465.30	-

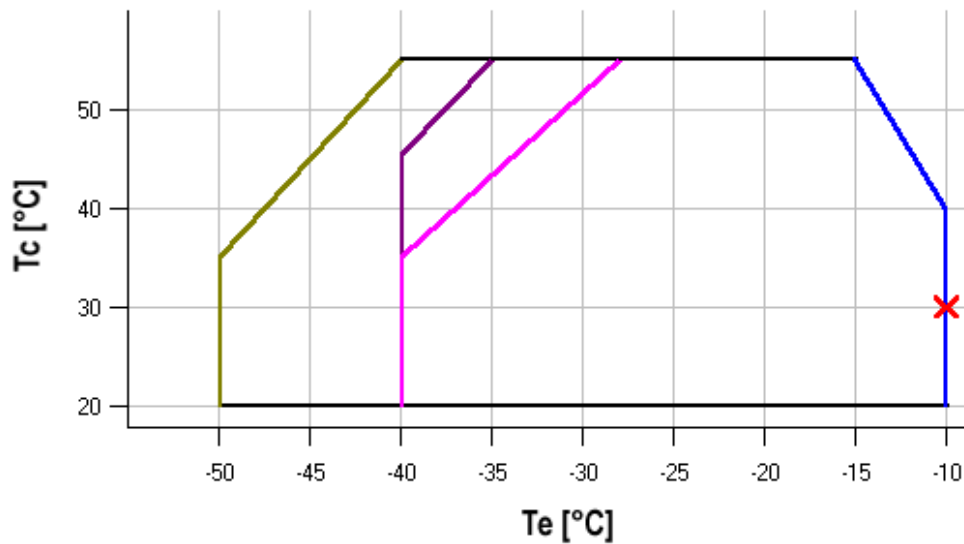
Model: D6DT-320 X

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.63	1.85	2.08	2.35	2.65	2.99	3.38	3.84	4.36
25	1.45	1.65	1.86	2.08	2.33	2.62	2.93	3.30	3.71
30	1.28	1.47	1.65	1.85	2.06	2.30	2.56	2.86	3.19
35	1.12	1.30	1.47	1.64	1.82	2.02	2.24	2.49	2.76
40	-	1.14	1.30	1.45	1.61	1.78	1.96	2.17	2.40
45	-	0.99	1.14	1.27	1.41	1.56	1.72	1.89	-
50	-	-	0.98	1.11	1.23	1.36	1.50	1.64	-
55	-	-	0.83	0.95	1.06	1.18	1.29	1.42	-

Application range



- Maximum evaporating temperature
- 25°C suction gas return
- 0°C suction gas return + additional cooling
- 0°C suction gas return

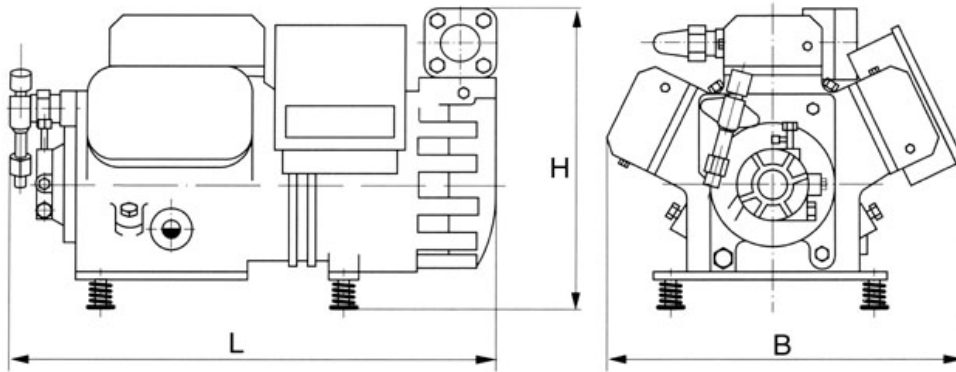
Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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Dimensions



L	740 mm
B	580 mm
H	700 mm

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Image

