

Model: D6DH-350 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D6DH-350 X

Technical data

Cylinder count:	6
Displacement [m ³ /h]:	106
Weight [kg]:	262
Oil charge [dm ³]:	4,3
Max. operating current [A]:	63,5
Locked rotor current [A]:	284
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

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

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Capacity

R404A/R507

Cooling capacity [kW]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10	-5	0	5
20	28.45	36.00	45.02	55.71	68.25	82.85	99.69	118.96	140.86
25	26.29	33.47	41.99	52.05	63.82	77.52	93.32	111.42	132.00
30	24.11	30.92	38.94	48.36	59.37	72.15	86.91	103.83	123.11
35	21.90	28.35	35.86	44.64	54.88	66.76	80.47	96.22	114.18
40	-	25.74	32.75	40.89	50.35	61.32	74.00	88.56	105.21
45	-	23.11	29.62	37.11	45.80	55.86	67.48	80.87	96.21
50	-	20.45	26.45	33.30	41.21	50.35	60.93	73.14	87.16
55	-	17.76	23.24	29.46	36.58	44.82	54.35	65.37	78.07

Power input [kW]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10	-5	0	5
20	11.47	12.81	14.10	15.28	16.30	17.13	17.72	18.02	17.98
25	12.03	13.53	15.01	16.39	17.66	18.75	19.62	20.22	20.52
30	12.54	14.20	15.85	17.44	18.93	20.27	21.42	22.33	22.95
35	13.01	14.81	16.63	18.42	20.13	21.72	23.14	24.34	25.28
40	-	15.38	17.36	19.34	21.26	23.09	24.77	26.26	27.51
45	-	15.89	18.03	20.19	22.32	24.38	26.32	28.09	29.64
50	-	16.36	18.66	20.99	23.32	25.60	27.79	29.83	31.68
55	-	16.80	19.23	21.74	24.26	26.76	29.18	31.49	33.64

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Current [A]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10	-5	0	5
20	27.73	29.41	31.05	32.57	33.87	34.85	35.42	35.48	34.93
25	28.47	30.30	32.17	33.98	35.63	37.04	38.09	38.71	38.79
30	29.17	31.16	33.25	35.35	37.35	39.18	40.72	41.89	42.59
35	29.82	31.96	34.27	36.65	39.01	41.26	43.29	45.01	46.32
40	-	32.69	35.22	37.89	40.60	43.26	45.78	48.05	49.98
45	-	33.34	36.09	39.04	42.11	45.19	48.18	51.00	53.55
50	-	33.90	36.87	40.10	43.52	47.01	50.49	53.86	57.02
55	-	34.36	37.54	41.06	44.82	48.73	52.68	56.60	60.37

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10	-5	0	5
20	616.42	795.90	1 002.37	1 244.41	1 530.62	1 869.57	2 269.84	2 740.03	3 288.72
25	601.08	777.62	980.79	1 219.17	1 501.35	1 835.90	2 231.43	2 696.50	3 239.70
30	582.37	756.17	956.24	1 191.17	1 469.52	1 799.89	2 190.87	2 651.02	3 188.95
35	560.59	731.87	929.05	1 160.72	1 435.45	1 761.85	2 148.47	2 603.93	3 136.78
40	-	705.02	899.51	1 128.13	1 399.46	1 722.08	2 104.57	2 555.51	3 083.50
45	-	675.94	867.96	1 093.73	1 361.85	1 680.90	2 059.46	2 506.11	3 029.44
50	-	644.94	834.68	1 057.82	1 322.94	1 638.63	2 013.45	2 456.01	2 974.89
55	-	612.34	800.01	1 020.72	1 283.05	1 595.57	1 966.88	2 405.55	2 920.17

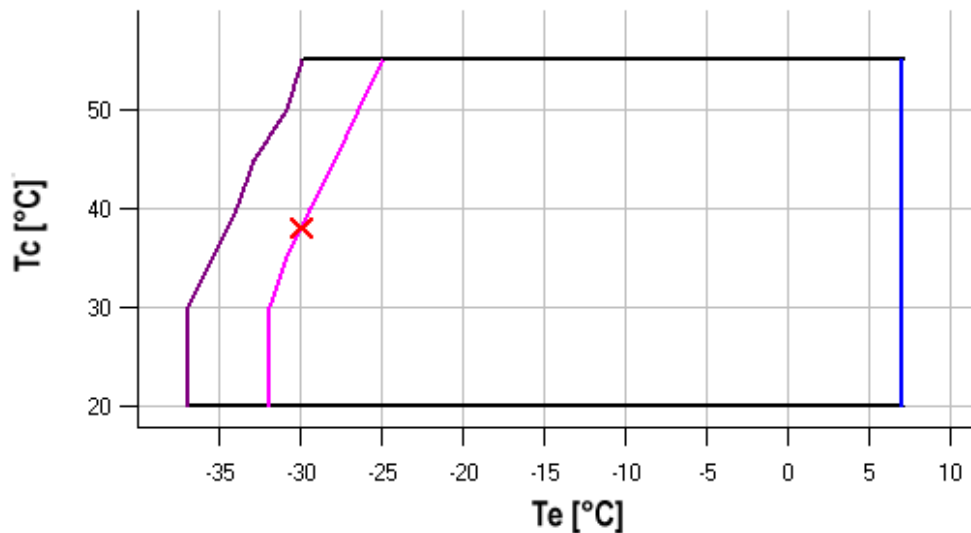
Model: D6DH-350 X




Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10	-5	0	5
20	2.48	2.81	3.19	3.65	4.19	4.84	5.63	6.60	7.84
25	2.19	2.47	2.80	3.17	3.61	4.14	4.76	5.51	6.43
30	1.92	2.18	2.46	2.77	3.14	3.56	4.06	4.65	5.36
35	1.68	1.91	2.16	2.42	2.73	3.07	3.48	3.95	4.52
40	-	1.67	1.89	2.11	2.37	2.66	2.99	3.37	3.82
45	-	1.45	1.64	1.84	2.05	2.29	2.56	2.88	3.25
50	-	1.25	1.42	1.59	1.77	1.97	2.19	2.45	2.75
55	-	1.06	1.21	1.36	1.51	1.67	1.86	2.08	2.32

Application range



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

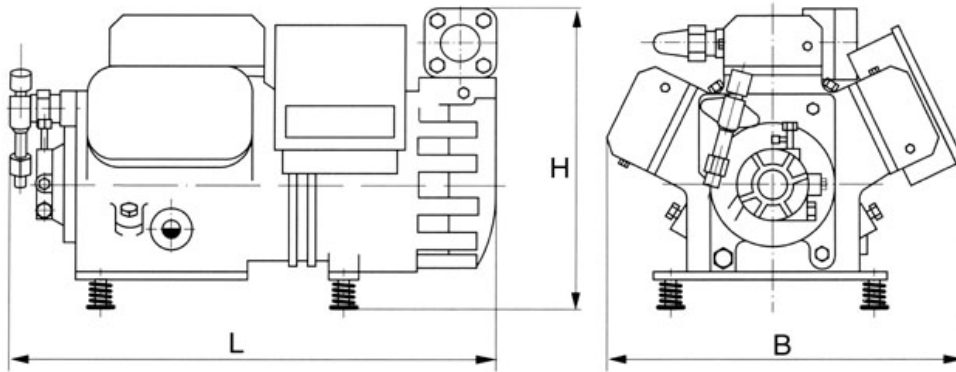
Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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Dimensions



L	760 mm
B	580 mm
H	490 mm