



Model: D6DJ-400 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D6DJ-400 X

Technical data

Nominal motor power [kW]:	
Cylinder count:	6
Displacement [m ³ /h]:	127
Cylinder capacity [cm ³]:	
RPM [min ⁻¹]:	1450
Weight [kg]:	277
Oil charge [dm ³]:	7,4
Power supply [V/~/Hz]:	

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	54	2 1/8"
Discharge line:	35	1 3/8"

R134a

Cooling capacity [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	7	10	12.5	15	20	25
40	25	32	41	51	64	78	85	95	104	114	-	-
	440	780	500	880	180	640	080	490	870	910		
45	23	30	38	48	60	73	79	89	98	108	129	153
	540	540	780	570	190	880	990	890	820	410	630	650
50	21	28	36	45	56	69	74	84	92	101	122	145
	520	230	030	260	200	110	890	260	740	870	110	140
55	19	25	33	41	52	64	69	78	86	95	114	136
	370	850	250	930	200	340	780	620	640	270	510	500
60	-	23	30	38	48	59	64	72	80	88	106	127
		390	430	600	210	570	660	950	490	630	820	720
65	-	20	27	35	44	54	59	67	74	81	99	-
		860	580	250	210	780	530	260	310	930	020	
70	-	-	24	31	40	49	54	61	68	75	-	-
			700	890	210	990	390	550	080	160		
75	-	-	-	28	36	45	49	55	61	-	-	-
				530	220	200	230	800	810			
80	-	-	-	25	32	40	44	50	-	-	-	-
				150	220	390	050	020				

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	7	10	12.5	15	20	25
40	12.19	13.72	15.24	16.71	18.08	19.29	19.72	20.31	20.73	21.10	-	-
45	12.64	14.30	16.00	17.68	19.28	20.76	21.31	22.07	22.65	23.18	24.04	24.64
50	13.10	14.87	16.73	18.60	20.43	22.16	22.82	23.75	24.48	25.16	26.35	27.29
55	13.59	15.44	17.43	19.47	21.51	23.49	24.25	25.35	26.23	27.06	28.57	29.84
60	-	16.01	18.10	20.30	22.53	24.74	25.60	26.86	27.87	28.85	30.67	32.29
65	-	16.57	18.75	21.08	23.48	25.90	26.85	28.26	29.41	30.53	32.66	-
70	-	-	19.36	21.79	24.35	26.97	28.01	29.57	30.85	32.10	-	-
75	-	-	-	22.45	25.15	27.94	29.06	30.76	32.16	-	-	-
80	-	-	-	23.05	25.85	28.80	30.01	31.83	-	-	-	-

Operating conditions: suction gas temperature 25°C + additional cooling

 t_c - Condensing temperature [°C]

 t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

t_c \ t_e	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	34 250	43 160	53 810	66 410	81 200	98 390	118 190	140 820	166 470	177 620
25	31 690	40 160	50 220	62 070	75 960	92 080	110 670	131 930	156 080	166 580
30	29 100	37 130	46 600	57 700	70 680	85 750	103 120	123 020	145 650	155 510
35	26 470	34 070	42 940	53 300	65 370	79 380	95 540	114 070	135 190	144 410
40	-	30 960	39 240	48 850	60 020	72 970	87 920	105 090	124 700	133 270
45	-	27 820	35 510	44 370	54 640	66 520	80 260	96 070	114 170	122 100
50	-	24 620	31 730	39 840	49 210	60 040	72 560	87 010	103 600	110 880
55	-	21 390	27 900	35 270	43 730	53 510	64 820	77 910	92 990	99 640

Power input [kW]

t_c \ t_e	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	14.06	15.82	17.56	19.23	20.75	22.07	23.13	23.88	24.24	24.27
25	14.72	16.64	18.58	20.48	22.28	23.91	25.32	26.44	27.22	27.43
30	15.36	17.43	19.56	21.68	23.74	25.67	27.41	28.91	30.10	30.48
35	15.97	18.18	20.49	22.83	25.14	27.35	29.42	31.28	32.87	33.42
40	-	18.90	21.37	23.91	26.46	28.96	31.34	33.55	35.53	36.24
45	-	19.56	22.20	24.93	27.71	30.47	33.16	35.71	38.07	38.95
50	-	20.19	22.97	25.89	28.89	31.91	34.89	37.77	40.50	41.53
55	-	20.76	23.68	26.77	29.98	33.25	36.52	39.72	42.80	43.99

Operating conditions: suction gas temperature 25°C + additional cooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R407C

Cooling capacity [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	37 140	47 190	60 120	75 890	94 470	115 840	140 000	150 440	166 890	181 350
35	34 090	43 360	55 420	70 210	87 720	107 960	130 910	140 840	156 530	170 350
40	30 970	39 470	50 650	64 480	80 950	100 050	121 790	131 230	146 170	159 350
45	-	35 440	45 770	58 650	74 070	92 050	112 600	121 550	135 740	148 290
50	-	31 230	40 710	52 640	67 030	83 900	103 270	111 720	125 170	137 090
55	-	-	35 400	46 400	59 770	75 530	93 730	101 700	114 400	125 700
60	-	-	29 790	39 860	52 210	66 880	83 910	91 400	103 370	114 040

Power input [kW]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	15.80	17.62	19.48	21.23	22.73	23.85	24.45	24.51	24.38	24.06
35	16.88	18.86	20.92	22.94	24.77	26.28	27.31	27.57	27.75	27.69
40	17.79	19.91	22.18	24.45	26.60	28.47	29.93	30.37	30.85	31.06
45	-	20.75	23.20	25.71	28.15	30.38	32.26	32.88	33.64	34.10
50	-	21.32	23.94	26.68	29.40	31.97	34.24	35.04	36.08	36.79
55	-	-	24.36	27.31	30.30	33.20	35.85	36.82	38.13	39.08
60	-	-	24.40	27.56	30.80	34.01	37.03	38.16	39.74	40.93

Operating conditions: suction gas temperature 25°C + additional cooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



