

Type: Semi-hermetic piston compressors
Producer: Copeland
Series: DISCUS

Model: D2DL-40 X

Technical data

Nominal motor power [kW]:	
Cylinder count:	2
Displacement [m ³ /h]:	23,7
Cylinder capacity [cm ³]:	
RPM [min ⁻¹]:	1450
Weight [kg]:	140
Oil charge [dm ³]:	2,3
Power supply [V/~/Hz]:	

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	35	1 3/8"
Discharge line:	22	7/8"

R134a

Cooling capacity [W]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	4 950	6 570	8 500	10 770	13 430	16 530	17 900	20 110	22 090
35	4 520	6 060	7 890	10 040	12 570	15 510	16 810	18 910	20 790
40	4 110	5 570	7 290	9 320	11 700	14 480	15 700	17 680	19 460
45	3 720	5 090	6 710	8 610	10 830	13 430	14 580	16 440	18 100
50	3 350	4 630	6 140	7 900	9 960	12 370	13 440	15 160	16 710
55	3 000	4 200	5 580	7 200	9 090	11 300	12 280	13 860	15 280
60	2 680	3 780	5 050	6 510	8 220	10 210	11 100	12 520	13 810
62	-	-	4 830	6 240	7 870	9 780	10 620	11 980	13 210

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	2.15	2.36	2.53	2.66	2.73	2.74	2.73	2.68	2.62
35	2.20	2.46	2.69	2.88	3.01	3.09	3.10	3.10	3.08
40	2.25	2.55	2.83	3.07	3.27	3.41	3.45	3.49	3.50
45	2.30	2.64	2.96	3.25	3.50	3.70	3.77	3.85	3.89
50	2.35	2.71	3.07	3.40	3.71	3.96	4.05	4.17	4.24
55	2.39	2.77	3.16	3.53	3.88	4.19	4.30	4.45	4.56
60	2.42	2.81	3.22	3.63	4.02	4.38	4.51	4.69	4.83
62	-	-	3.25	3.67	4.07	4.44	4.58	4.77	4.92

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	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1 990	2 920	4 080	5 490	7 180	9 170	11 490	14 190	17 280
25	1 680	2 560	3 640	4 950	6 520	8 360	10 520	13 020	15 900
30	1 390	2 210	3 210	4 420	5 860	7 570	9 570	11 880	14 540
35	1 110	1 860	2 790	3 900	5 230	6 790	8 620	10 750	13 200
40	-	1 540	2 390	3 400	4 610	6 030	7 700	9 640	11 880
45	-	1 240	2 010	2 920	4 010	5 300	6 800	8 550	10 580
50	-	-	1 650	2 470	3 440	4 580	5 930	7 500	9 310
55	-	-	1 310	2 040	2 890	3 900	5 080	6 470	8 080

Power input [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.71	2.03	2.34	2.63	2.88	3.11	3.28	3.41	3.47
25	1.70	2.04	2.38	2.71	3.01	3.29	3.52	3.71	3.85
30	1.67	2.04	2.41	2.78	3.12	3.45	3.74	4.00	4.20
35	1.62	2.02	2.42	2.83	3.22	3.59	3.94	4.26	4.53
40	-	1.99	2.42	2.86	3.30	3.72	4.12	4.50	4.84
45	-	1.95	2.41	2.88	3.36	3.83	4.29	4.72	5.13
50	-	-	2.39	2.89	3.40	3.92	4.43	4.92	5.39
55	-	-	2.35	2.89	3.44	4.00	4.56	5.11	5.64

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



