

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DC-1000

Technical data

Nominal motor power [kW]:

Cylinder count: 3

Displacement [m³/h]: 38

Cylinder capacity [cm³]:

RPM [min⁻¹]: 1450

Weight [kg]: 175

Oil charge [dm³]: 3,4

Power supply [V/~/Hz]:

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	35	1 3/8"
Discharge line:	28	1 1/8"

R22

Cooling capacity [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	11 590	14 940	18 860	23 410	28 680	34 760	41 730	44 800	49 730	54 160
35	10 740	13 940	17 670	22 020	27 050	32 830	39 480	42 400	47 090	51 300
40	9 920	12 960	16 520	20 650	25 420	30 920	37 230	40 000	44 450	48 450
45	-	12 010	15 380	19 300	23 820	29 020	34 990	37 610	41 810	45 580
50	-	11 120	14 300	17 990	22 260	27 160	32 780	35 250	39 200	42 740
55	-	-	13 270	16 740	20 750	25 340	30 610	32 920	36 620	39 940
60	-	-	12 310	15 540	19 280	23 570	28 470	30 620	34 070	37 150
62	-	-	-	15 090	18 710	22 880	27 640	29 720	33 060	36 050

Power input [kW]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	4.87	5.32	5.72	6.02	6.22	6.28	6.18	6.09	5.89	5.67
35	5.06	5.60	6.08	6.49	6.80	6.99	7.03	7.00	6.90	6.77
40	5.24	5.86	6.43	6.93	7.35	7.66	7.85	7.88	7.87	7.81
45	-	6.10	6.75	7.35	7.88	8.31	8.62	8.71	8.79	8.82
50	-	6.33	7.06	7.75	8.38	8.92	9.37	9.51	9.68	9.79
55	-	-	7.37	8.14	8.86	9.52	10.08	10.28	10.54	10.71
60	-	-	7.68	8.53	9.34	10.10	10.78	11.02	11.36	11.61
62	-	-	-	8.69	9.53	10.33	11.05	11.32	11.69	11.97

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



