

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D2DB-500

Technical data

Nominal motor power [kW]:	
Cylinder count:	2
Displacement [m ³ /h]:	28
Cylinder capacity [cm ³]:	
RPM [min ⁻¹]:	1450
Weight [kg]:	149
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"

R22

Cooling capacity [W]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10
25	1 700	2 510	3 640	5 070	6 830	8 890	11 280	13 980	16 980
30	1 520	2 280	3 340	4 710	6 400	8 400	10 710	13 320	16 240
35	1 310	2 020	3 020	4 340	5 950	7 880	10 110	12 630	15 460
40	-	1 740	2 690	3 940	5 490	7 330	9 480	11 920	14 650
45	-	1 440	2 330	3 510	4 990	6 760	8 820	11 170	13 800
50	-	-	1 950	3 070	4 470	6 160	8 140	10 390	12 920
55	-	-	1 540	2 590	3 930	5 540	7 420	9 570	11 990

Power input [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10
25	1.75	2.03	2.35	2.70	3.04	3.35	3.61	3.80	3.89
30	1.75	2.07	2.43	2.83	3.22	3.59	3.92	4.18	4.34
35	1.73	2.08	2.49	2.93	3.37	3.81	4.20	4.53	4.77
40	-	2.06	2.51	2.99	3.49	3.99	4.45	4.85	5.17
45	-	2.01	2.49	3.02	3.58	4.13	4.66	5.13	5.54
50	-	-	2.44	3.02	3.63	4.24	4.83	5.39	5.87
55	-	-	2.36	2.98	3.63	4.31	4.97	5.60	6.17

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



