

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D2DD-500

Technical data

Nominal motor power [kW]:

Cylinder count:

2

Displacement [m³/h]:

19,3

Cylinder capacity [cm³]:

RPM [min⁻¹]:

1450

Weight [kg]:

141

Oil charge [dm³]:

2,3

Power supply [V/~/Hz]:

Connections

Suction line:

milimeters

35

inches

1 3/8"

Discharge line:

22

7/8"

R22

Cooling capacity [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	5 270	6 970	8 960	11 270	13 950	17 040	20 590	22 150	24 660	26 910
35	4 790	6 420	8 330	10 560	13 130	16 090	19 500	20 990	23 400	25 560
40	4 310	5 880	7 710	9 840	12 300	15 140	18 400	19 830	22 130	24 190
45	-	5 330	7 080	9 110	11 470	14 180	17 280	18 650	20 840	22 810
50	-	4 790	6 460	8 400	10 640	13 220	16 180	17 470	19 560	21 420
55	-	-	5 850	7 690	9 820	12 260	15 070	16 300	18 270	20 030
60	-	-	5 250	6 990	9 000	11 310	13 950	15 110	16 970	18 630
62	-	-	-	6 720	8 680	10 930	13 510	14 640	16 450	18 070

Power input [kW]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	2.33	2.58	2.80	2.98	3.09	3.14	3.10	3.06	2.97	2.86
35	2.38	2.68	2.96	3.19	3.36	3.48	3.52	3.51	3.46	3.40
40	2.41	2.76	3.09	3.37	3.61	3.80	3.91	3.93	3.94	3.92
45	-	2.82	3.20	3.54	3.84	4.10	4.28	4.34	4.39	4.41
50	-	2.86	3.29	3.69	4.05	4.37	4.63	4.72	4.82	4.89
55	-	-	3.36	3.82	4.24	4.63	4.96	5.08	5.23	5.34
60	-	-	3.42	3.93	4.42	4.87	5.27	5.42	5.62	5.77
62	-	-	-	3.97	4.48	4.96	5.39	5.55	5.77	5.94

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



