

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D4DA-100 X

Technical data

Nominal motor power [kW]:

Cylinder count:

4

Displacement [m³/h]:

56

Cylinder capacity [cm³]:

RPM [min⁻¹]:

1450

Weight [kg]:

186

Oil charge [dm³]:

4,5

Power supply [V/~/Hz]:

Connections

Suction line:

milimeters

42

inches

1 5/8"

Discharge line:

28

1 1/8"

R134a

Cooling capacity [W]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	13 930	17 750	22 290	27 650	33 920	41 190	44 400	49 560	54 180
35	12 910	16 510	20 780	25 830	31 740	38 620	41 660	46 550	50 930
40	11 880	15 270	19 280	24 020	29 570	36 040	38 910	43 520	47 660
45	10 850	14 040	17 800	22 220	27 410	33 470	36 150	40 470	44 360
50	9 800	12 810	16 320	20 430	25 260	30 890	33 390	37 410	41 040
55	8 740	11 590	14 850	18 660	23 110	28 310	30 620	34 340	37 690
60	7 680	10 360	13 400	16 900	20 980	25 730	27 840	31 250	34 320
62	-	-	12 820	16 200	20 130	24 700	26 730	30 000	32 960

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	4.76	5.28	5.74	6.14	6.44	6.64	6.68	6.71	6.69
35	5.00	5.59	6.15	6.65	7.07	7.39	7.49	7.60	7.65
40	5.22	5.88	6.53	7.13	7.66	8.10	8.25	8.43	8.55
45	5.42	6.15	6.87	7.56	8.19	8.75	8.95	9.21	9.40
50	5.60	6.38	7.17	7.94	8.68	9.34	9.59	9.93	10.18
55	5.76	6.58	7.43	8.28	9.10	9.88	10.17	10.57	10.89
60	5.91	6.74	7.64	8.56	9.47	10.34	10.67	11.15	11.53
62	-	-	7.71	8.65	9.60	10.51	10.86	11.36	11.76

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



