

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D4DA-200 X

Technical data

Nominal motor power [kW]:

Cylinder count:

4

Displacement [m³/h]:

56

Cylinder capacity [cm³]:

RPM [min⁻¹]:

1450

Weight [kg]:

212

Oil charge [dm³]:

3,6

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	15	20	25
40	11 410	14 920	19 080	24 050	29 930	36 830	39 910	44 880	49 350	54 140	-	-
45	10 380	13 740	17 710	22 410	27 980	34 540	37 470	42 210	46 480	51 070	61 200	72 650
50	9 280	12 530	16 310	20 760	26 030	32 250	35 020	39 520	43 590	47 970	57 670	68 670
55	8 110	11 270	14 880	19 090	24 070	29 940	32 570	36 830	40 690	44 840	54 090	64 640
60	-	9 960	13 420	17 410	22 100	27 630	30 100	34 120	37 760	41 690	50 470	60 530
65	-	8 610	11 930	15 720	20 120	25 300	27 620	31 390	34 810	38 520	46 810	56 360
70	-	-	10 420	14 010	18 130	22 960	25 120	28 640	31 840	35 310	43 090	52 110
75	-	-	-	12 280	16 130	20 610	22 610	25 870	28 840	32 060	39 320	47 790
80	-	-	-	10 530	14 120	18 250	20 090	23 080	25 810	28 780	35 490	-

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5	15	20	25
40	5.08	5.74	6.38	6.97	7.50	7.93	8.06	8.23	8.34	8.40	-	-
45	5.24	5.98	6.71	7.41	8.05	8.61	8.80	9.06	9.23	9.37	9.54	9.52
50	5.39	6.19	7.01	7.81	8.57	9.25	9.50	9.84	10.09	10.30	10.62	10.78
55	5.52	6.38	7.28	8.18	9.04	9.85	10.15	10.57	10.89	11.18	11.66	11.99
60	-	6.55	7.51	8.50	9.47	10.40	10.75	11.25	11.65	12.01	12.65	13.14
65	-	6.68	7.71	8.78	9.85	10.90	11.30	11.88	12.35	12.79	13.58	14.25
70	-	-	7.87	9.01	10.18	11.34	11.79	12.45	12.99	13.50	14.46	15.30
75	-	-	-	9.20	10.46	11.72	12.22	12.97	13.57	14.16	15.27	16.29
80	-	-	-	9.33	10.67	12.04	12.59	13.41	14.08	14.74	16.02	-

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	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	14 870	18 990	23 910	29 740	36 570	44 500	53 620	64 020	75 790	80 890
25	13 760	17 670	22 330	27 830	34 280	41 760	50 370	60 200	71 340	76 180
30	12 600	16 300	20 700	25 870	31 920	38 950	47 050	56 310	66 820	71 390
35	11 400	14 900	19 020	23 860	29 520	36 100	43 680	52 360	62 240	66 540
40	-	13 460	17 310	21 820	27 080	33 200	40 260	48 360	57 610	61 640
45	-	12 000	15 570	19 740	24 600	30 260	36 800	44 320	52 920	56 690
50	-	10 510	13 810	17 630	22 090	27 280	33 300	40 240	48 200	51 690
55	-	9 010	12 020	15 500	19 560	24 280	29 770	36 120	43 440	46 670

Power input [kW]

t_c \ t_e	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	5.86	6.60	7.31	7.94	8.46	8.85	9.06	9.06	8.81	8.63
25	6.11	6.94	7.75	8.51	9.18	9.73	10.12	10.32	10.30	10.22
30	6.34	7.24	8.15	9.02	9.83	10.54	11.11	11.51	11.70	11.72
35	6.54	7.51	8.51	9.49	10.43	11.28	12.02	12.61	13.02	13.12
40	-	7.76	8.83	9.91	10.97	11.97	12.86	13.63	14.24	14.43
45	-	7.97	9.12	10.29	11.46	12.58	13.64	14.58	15.37	15.64
50	-	8.16	9.37	10.62	11.89	13.14	14.34	15.44	16.42	16.77
55	-	8.32	9.58	10.91	12.28	13.64	14.97	16.23	17.38	17.80

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R407C

Cooling capacity [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	16 380	21 390	27 330	34 350	42 610	52 270	63 470	68 410	76 320	83 410
35	14 670	19 510	25 180	31 840	39 670	48 820	59 440	64 130	71 660	78 400
40	12 950	17 610	23 010	29 320	36 710	45 350	55 390	59 830	66 960	73 370
45	-	15 690	20 820	26 770	33 720	41 850	51 310	55 500	62 240	68 320
50	-	13 750	18 600	24 200	30 710	38 330	47 210	51 150	57 500	63 240
55	-	-	16 380	21 610	27 690	34 790	43 080	46 770	52 740	58 140
60	-	-	14 150	19 020	24 650	31 230	38 940	42 380	47 950	53 010

Power input [kW]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	6.67	7.42	8.14	8.77	9.27	9.60	9.71	9.68	9.55	9.35
35	6.97	7.84	8.69	9.47	10.14	10.65	10.95	11.00	11.00	10.92
40	7.26	8.24	9.21	10.13	10.95	11.63	12.12	12.26	12.38	12.40
45	-	8.58	9.67	10.72	11.69	12.54	13.21	13.42	13.66	13.79
50	-	8.85	10.05	11.23	12.34	13.34	14.19	14.47	14.83	15.06
55	-	-	10.33	11.62	12.87	14.02	15.03	15.38	15.85	16.18
60	-	-	10.48	11.89	13.26	14.55	15.72	16.14	16.71	17.13

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



