

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DS-1500

Technical data

Nominal motor power [kW]:

Cylinder count:

3

Displacement [m³/h]:

49,9

Cylinder capacity [cm³]:

RPM [min⁻¹]:

1450

Weight [kg]:

178

Oil charge [dm³]:

3,4

Power supply [V/~/Hz]:

Connections

Suction line:

milimeters

42

inches

1 5/8"

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	15 890	20 100	25 020	30 740	37 360	44 980	53 740	57 600	63 790	69 340
35	14 920	18 940	23 630	29 100	35 410	42 690	51 040	54 710	60 610	65 900
40	13 960	17 790	22 270	27 460	33 470	40 390	48 330	51 820	57 420	62 440
45	-	16 670	20 910	25 840	31 540	38 090	45 600	48 910	54 200	58 950
50	-	15 590	19 600	24 260	29 640	35 820	42 900	46 010	51 000	55 470
55	-	-	18 330	22 710	27 770	33 570	40 220	43 140	47 820	52 000
60	-	-	17 110	21 200	25 930	31 350	37 550	40 270	44 630	48 520
62	-	-	-	20 620	25 210	30 470	36 500	39 140	43 360	47 140

Power input [kW]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	7	10	12.5
30	6.68	7.25	7.74	8.13	8.39	8.49	8.40	8.31	8.09	7.84
35	7.00	7.66	8.26	8.78	9.18	9.44	9.53	9.51	9.42	9.27
40	7.30	8.06	8.77	9.40	9.94	10.36	10.62	10.67	10.70	10.65
45	-	8.44	9.25	10.00	10.68	11.24	11.67	11.79	11.93	11.99
50	-	8.81	9.72	10.58	11.38	12.09	12.68	12.88	13.12	13.28
55	-	-	10.18	11.15	12.07	12.91	13.66	13.92	14.28	14.53
60	-	-	10.65	11.72	12.75	13.72	14.62	14.94	15.40	15.75
62	-	-	-	11.94	13.02	14.04	14.99	15.35	15.84	16.22

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



