

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DS-1000

Technical data

Nominal motor power [kW]:

Cylinder count:

3

Displacement [m³/h]:

49,9

Cylinder capacity [cm³]:

RPM [min⁻¹]:

1450

Weight [kg]:

182

Oil charge [dm³]:

3,4

Power supply [V/~/Hz]:

Connections

Suction line:

milimeters

35

inches

1 3/8"

Discharge line:

28

1 1/8"

R22

Cooling capacity [W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	3 690	5 280	7 300	9 840	13 040	17 090	22 270
30	3 240	4 730	6 620	9 000	12 000	15 810	20 690
35	2 810	4 200	5 960	8 180	10 990	14 570	19 170
40	-	3 690	5 330	7 400	10 020	13 370	17 690
45	-	3 220	4 730	6 650	9 090	12 220	16 250
50	-	-	4 170	5 940	8 210	11 110	14 880
55	-	-	3 650	5 280	7 370	10 060	13 560

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
25	3.31	3.91	4.52	5.14	5.76	6.36	6.96
30	3.44	4.07	4.72	5.38	6.06	6.75	7.45
35	3.54	4.20	4.89	5.60	6.33	7.09	7.88
40	-	4.32	5.03	5.78	6.57	7.40	8.28
45	-	4.41	5.16	5.94	6.78	7.67	8.63
50	-	-	5.27	6.08	6.96	7.90	8.94
55	-	-	5.36	6.20	7.12	8.11	9.21

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



