
GACO SARL

28, Rue Bencharif Madani

25000 BELLEVUE/CONSTANTINE - ALGERIE

Tel. : 031 92 54 56 / 031 93 22 23 - Fax : 031 92 13 45

Email : gacosarl@gmail.com / benkobbi_fares@yahoo.fr

**Type: Hermetic piston compressors****Producer: Copeland****Series: ZP****Model: ZP54K3E-TFD****Technical data**

Nominal motor power [HP]:	4,6
Displacement [m ³ /h]:	9,4
Sound pressure level :	58
Weight [kg]:	47/45
Oil charge [dm ³]:	2

Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	64
Max. operating current [A]:	10
Winding resistance [Ω]:	2,75

Connections

	<u>millimeters</u>	<u>inches</u>
Suction Rotolock valve connection:		-
Discharge Rotolock valve connection:		-
Suction connection with supplied sleeve:		7/8"
Discharge connection with supplied sleeve:		1/2"

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R410A

Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	6.32	7.73	9.39	11.32	13.55	16.10	18.99
30	5.94	7.29	8.87	10.70	12.80	15.20	17.92
35	5.55	6.86	8.37	10.11	12.10	14.36	16.92
40	5.11	6.39	7.85	9.51	11.40	13.54	15.95
45	-	5.85	7.27	8.86	10.66	12.69	14.96
50	-	-	6.57	8.11	9.84	11.76	13.92
55	-	-	-	7.23	8.89	10.73	12.77
60	-	-	-	-	7.76	9.53	11.48
65	-	-	-	-	-	8.13	9.99

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	2.20	2.19	2.15	2.11	2.05	2.00	1.95
30	2.51	2.50	2.47	2.44	2.41	2.38	2.36
35	2.87	2.85	2.81	2.78	2.75	2.73	2.73
40	3.31	3.26	3.21	3.16	3.12	3.10	3.10
45	-	3.76	3.68	3.60	3.54	3.51	3.50
50	-	-	4.26	4.14	4.05	3.98	3.95
55	-	-	-	4.80	4.66	4.56	4.49
60	-	-	-	-	5.42	5.26	5.14
65	-	-	-	-	-	6.11	5.94

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**Current [A]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	5.14	5.13	5.09	5.03	4.97	4.90	4.83
30	5.49	5.47	5.45	5.41	5.37	5.34	5.31
35	5.91	5.88	5.84	5.81	5.78	5.76	5.76
40	6.45	6.39	6.32	6.27	6.23	6.21	6.22
45	-	7.04	6.93	6.84	6.77	6.73	6.72
50	-	-	7.71	7.55	7.43	7.35	7.32
55	-	-	-	8.46	8.27	8.13	8.05
60	-	-	-	-	9.33	9.11	8.96
65	-	-	-	-	-	10.33	10.08

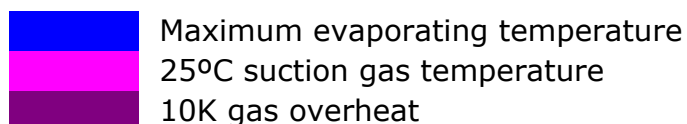
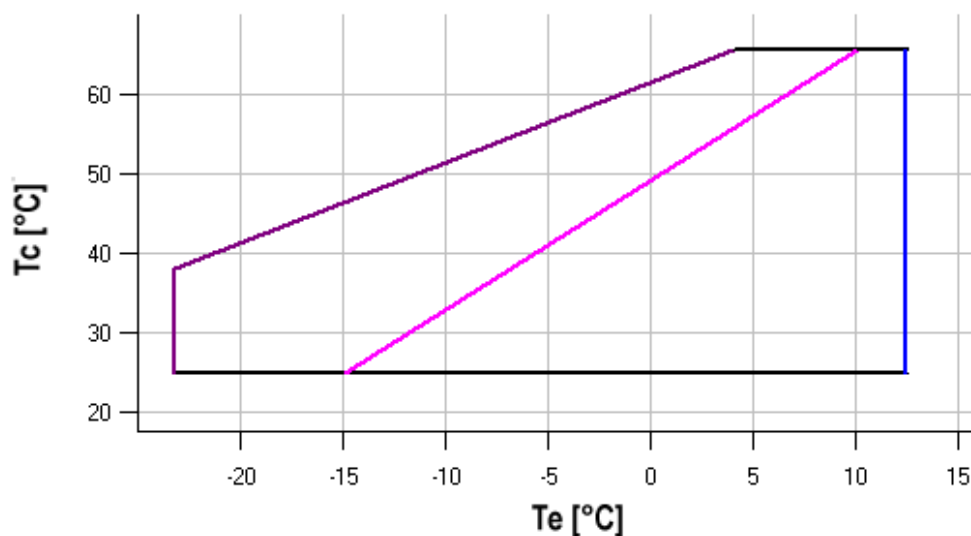
Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	123.32	149.78	180.08	214.75	254.32	299.29	350.21
30	122.23	148.53	178.46	212.55	251.31	295.28	344.97
35	120.53	147.10	177.09	211.02	249.42	292.80	341.69
40	117.34	144.62	175.09	209.30	247.75	290.98	339.50
45	-	140.21	171.61	206.51	245.45	288.95	337.54
50	-	-	165.76	201.80	241.66	285.86	334.93
55	-	-	-	194.29	235.49	280.83	330.82
60	-	-	-	-	226.10	272.99	324.33
65	-	-	-	-	-	261.48	314.59

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	2.88	3.54	4.36	5.37	6.59	8.04	9.71
30	2.36	2.92	3.59	4.39	5.32	6.39	7.59
35	1.93	2.41	2.97	3.64	4.40	5.25	6.19
40	1.54	1.96	2.45	3.01	3.65	4.37	5.14
45	-	1.55	1.98	2.46	3.01	3.62	4.27
50	-	-	1.54	1.96	2.43	2.95	3.52
55	-	-	-	1.50	1.91	2.35	2.84
60	-	-	-	-	1.43	1.81	2.23
65	-	-	-	-	-	1.33	1.68

Application range



Operating conditions: 10K suction superheat, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

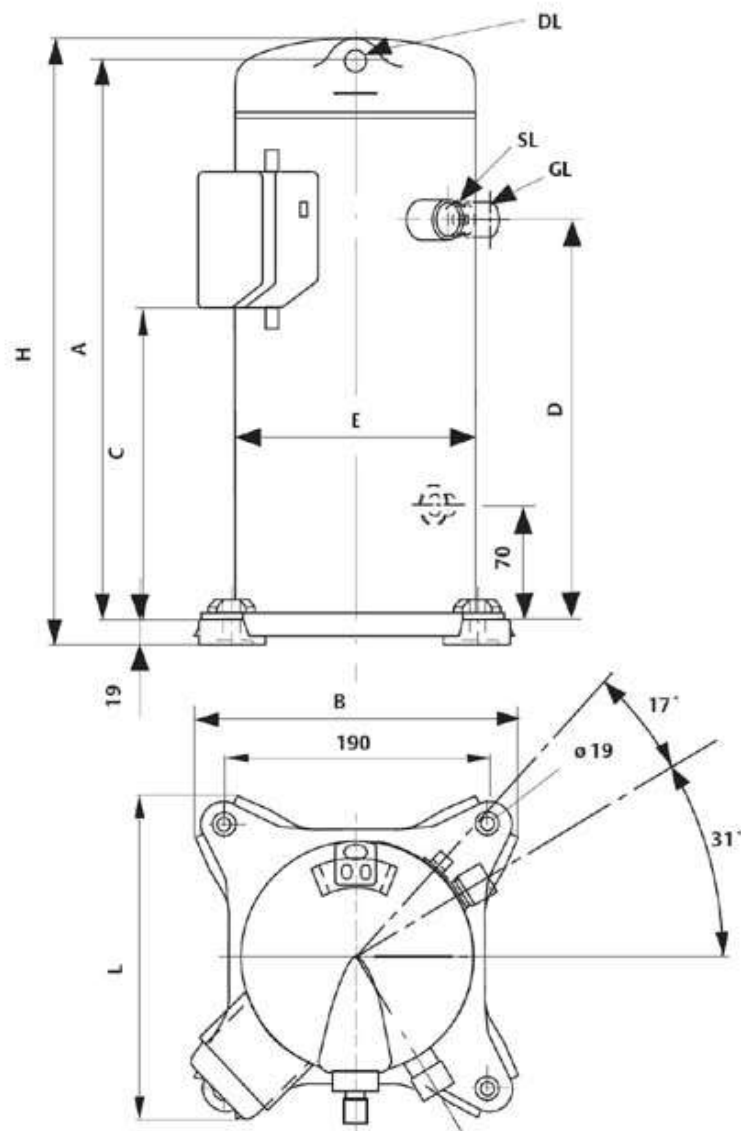
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A	410
B	240
C	233 mm
D	297 mm
E	185 mm
H	457 mm
L	247 mm

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