
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 scroll compressors****Producer: Copeland****Series: ZP****Model: ZP83KCE-TFD****Technical data**

Displacement [m ³ /h]:	13,4
Sound power [dBA]:	72
Sound pressure level [dB]:	61
Net Weight [kg]:	39,5
Gross Weight [kg]:	51
Oil charge [dm ³]:	1,8
Maximum high pressure [bar]:	43
Maximum standstill pressure [bar]:	28,0
Maximum lowside temperature [°C]:	50
PED category:	1

Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	101,0
Max. operating current [A]:	15,0
Winding resistance [Ω]:	1,8

Connectionsinches

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	9.44	11.62	14.12	16.96	20.21	23.91	28.10
30	8.76	10.89	13.31	16.08	19.24	22.83	26.91
35	8.09	10.14	12.48	15.15	18.20	21.67	25.62
40	7.42	9.39	11.62	14.18	17.10	20.44	24.24
45	-	8.61	10.72	13.15	15.93	19.11	22.75
50	-	-	9.78	12.06	14.68	17.69	21.14
55	-	-	-	10.90	13.35	16.17	19.42
60	-	-	-	-	11.92	14.54	17.58
65	-	-	-	-	-	12.80	15.61

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	3.04	3.07	3.10	3.14	3.20	3.28	3.38
30	3.45	3.48	3.52	3.55	3.60	3.67	3.77
35	3.92	3.95	3.97	4.01	4.05	4.11	4.19
40	4.44	4.47	4.49	4.51	4.55	4.59	4.66
45	-	5.06	5.07	5.09	5.11	5.15	5.20
50	-	-	5.74	5.75	5.76	5.78	5.82
55	-	-	-	6.50	6.50	6.50	6.52
60	-	-	-	-	7.34	7.33	7.33
65	-	-	-	-	-	8.28	8.26

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**Current [A]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	7.48	7.52	7.55	7.60	7.65	7.74	7.85
30	7.95	7.98	8.02	8.06	8.12	8.20	8.30
35	8.49	8.53	8.56	8.60	8.65	8.72	8.82
40	9.13	9.16	9.19	9.22	9.26	9.33	9.41
45	-	9.92	9.93	9.95	9.99	10.03	10.11
50	-	-	10.81	10.81	10.83	10.86	10.92
55	-	-	-	11.82	11.82	11.84	11.87
60	-	-	-	-	12.98	12.97	12.99
65	-	-	-	-	-	14.29	14.28

Mass flow [kg/h]

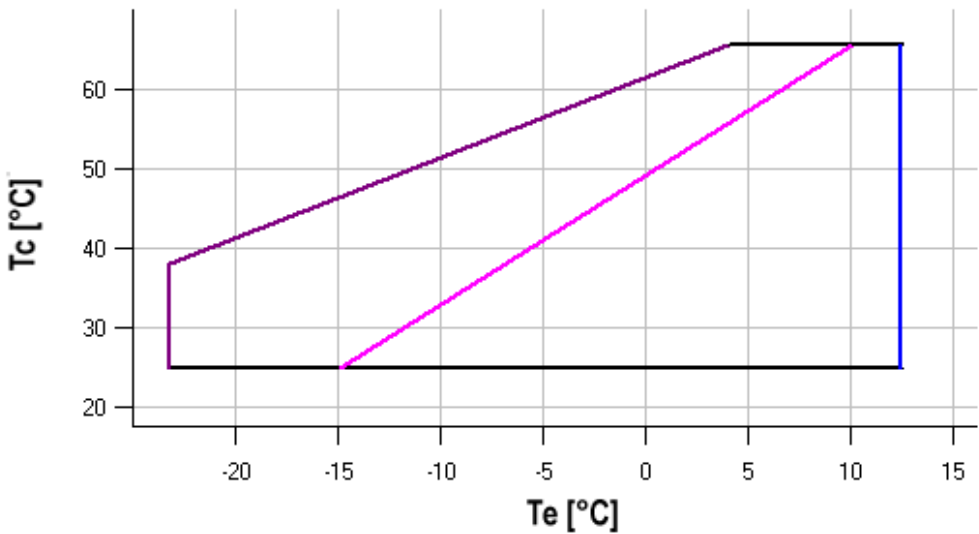
$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
25	183.80	225.08	270.75	321.84	379.35	444.34	517.80
30	180.36	221.89	267.98	319.68	378.00	443.96	518.59
35	175.89	217.57	264.01	316.24	375.27	442.14	517.86
40	170.54	212.31	259.02	311.69	371.36	439.05	515.78
45	-	206.27	253.16	306.21	366.44	434.87	512.53
50	-	-	246.63	299.97	360.68	429.77	508.28
55	-	-	-	293.15	354.25	423.93	503.20
60	-	-	-	-	347.33	417.51	497.47
65	-	-	-	-	-	410.70	491.27



C.O.P. [W/W]

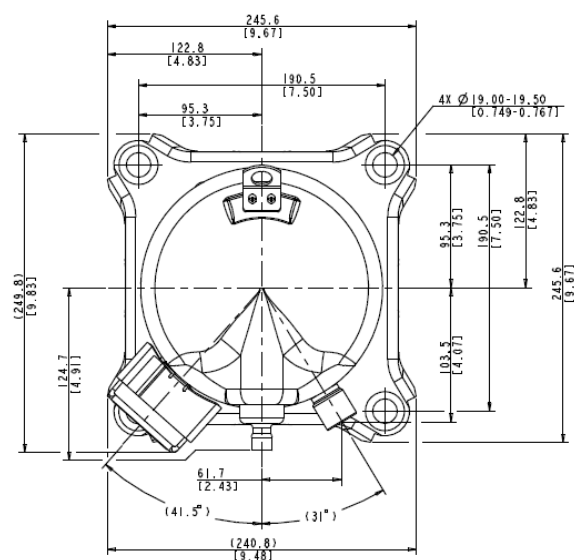
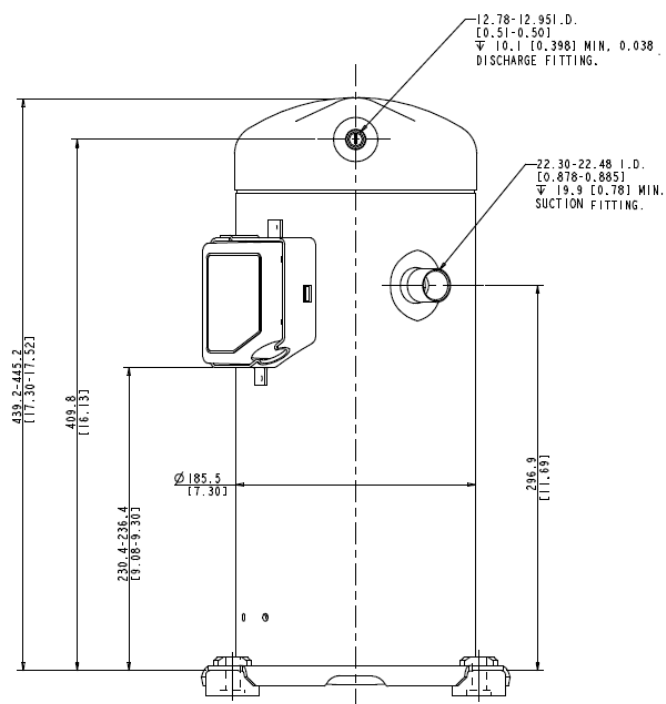
t _c \ t _e	-20	-15	-10	-5	0	5	10
25	3.11	3.79	4.55	5.40	6.32	7.30	8.31
30	2.54	3.12	3.79	4.53	5.34	6.22	7.14
35	2.06	2.57	3.14	3.78	4.50	5.28	6.12
40	1.67	2.10	2.59	3.14	3.76	4.45	5.20
45	-	1.70	2.11	2.58	3.12	3.71	4.37
50	-	-	1.70	2.10	2.55	3.06	3.64
55	-	-	-	1.68	2.05	2.49	2.98
60	-	-	-	-	1.62	1.98	2.40
65	-	-	-	-	-	1.55	1.89

Application range



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: 10K suction superheat, 0K subcooling
t_c - Condensing temperature [°C]
t_e - Evaporating temperature [°C]



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