
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: ZR

Model: ZR250KCE-TWD

Technical data

Displacement [m ³ /h]:	56,6
Sound power [dBA]:	83
Sound pressure level [dB]:	72
Net Weight [kg]:	140
Gross Weight [kg]:	168
Oil charge [dm ³]:	4,7
Maximum high pressure [bar]:	32
Maximum standstill pressure [bar]:	20
Minimal lowside temperature [°C]:	-35
Maximum lowside temperature [°C]:	52
PED category:	2

Electrical data

Power supply [V/~/Hz]:	380-420/3/50Hz
Locked rotor current [A]:	225
Max. operating current [A]:	41,0
Winding resistance [Ω]:	0,6

Connections

	<u>inches</u>
Suction Rotolock valve connection:	2 1/4" x 12 UN
Discharge Rotolock valve connection:	1 3/4" x 12 UN
Suction connection with supplied sleeve:	1 5/8"
Discharge connection with supplied sleeve:	1 3/8"

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R134a

Cooling capacity [kW]

t_c \ t_e	-15	-10	-5	0	5	10	15
30	18.76	23.58	29.30	36.03	43.90	53.04	63.56
35	17.69	22.32	27.80	34.27	41.84	50.63	60.77
40	16.61	21.03	26.28	32.47	39.72	48.17	57.92
45	15.51	19.72	24.73	30.63	37.57	45.66	55.02
50	-	18.40	23.15	28.77	35.38	43.11	52.07
55	-	-	21.54	26.87	33.15	40.51	49.06
60	-	-	19.92	24.94	30.88	37.86	46.00
65	-	-	-	22.98	28.57	35.17	42.90
70	-	-	-	-	26.23	32.44	39.74

Power input [kW]

t_c \ t_e	-15	-10	-5	0	5	10	15
30	7.08	7.14	7.21	7.31	7.43	7.59	7.79
35	7.87	7.92	7.99	8.08	8.20	8.34	8.53
40	8.75	8.80	8.87	8.96	9.06	9.20	9.37
45	9.73	9.79	9.86	9.94	10.04	10.17	10.32
50	-	10.88	10.95	11.04	11.13	11.25	11.40
55	-	-	12.18	12.26	12.36	12.47	12.62
60	-	-	13.53	13.62	13.72	13.83	13.97
65	-	-	-	15.12	15.23	15.34	15.48
70	-	-	-	-	16.89	17.01	17.14

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**Current [A]**

t_c \ t_e	-15	-10	-5	0	5	10	15
30	17.10	17.15	17.20	17.27	17.37	17.53	17.77
35	17.81	17.88	17.94	18.00	18.10	18.23	18.43
40	18.66	18.75	18.82	18.89	18.97	19.09	19.26
45	19.65	19.77	19.86	19.94	20.02	20.13	20.27
50	-	20.98	21.09	21.18	21.26	21.36	21.48
55	-	-	22.51	22.62	22.71	22.80	22.91
60	-	-	24.16	24.29	24.39	24.48	24.58
65	-	-	-	26.19	26.31	26.41	26.50
70	-	-	-	-	28.50	28.61	28.70

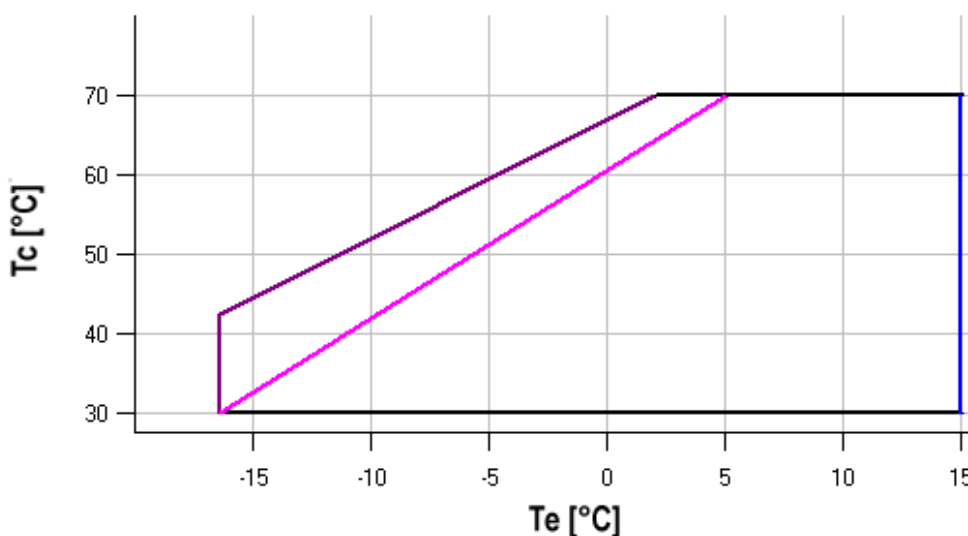
Mass flow [kg/h]

t_c \ t_e	-15	-10	-5	0	5	10	15
30	433.20	534.44	651.14	785.20	938.51	1 112.96	1 310.46
35	430.03	530.98	647.57	781.69	935.24	1 110.11	1 308.20
40	425.79	526.53	643.08	777.34	931.20	1 106.57	1 305.33
45	420.58	521.18	637.76	772.24	926.50	1 102.43	1 301.94
50	-	515.03	631.73	766.49	921.21	1 097.79	1 298.12
55	-	-	625.07	760.19	915.46	1 092.75	1 293.97
60	-	-	617.88	753.44	909.32	1 087.40	1 289.60
65	-	-	-	746.33	902.89	1 081.85	1 285.09
70	-	-	-	-	896.29	1 076.18	1 280.54

C.O.P. [W/W]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	2.65	3.30	4.06	4.93	5.91	6.99	8.16
35	2.25	2.82	3.48	4.24	5.10	6.07	7.13
40	1.90	2.39	2.96	3.63	4.38	5.24	6.18
45	1.59	2.02	2.51	3.08	3.74	4.49	5.33
50	-	1.69	2.11	2.61	3.18	3.83	4.57
55	-	-	1.77	2.19	2.68	3.25	3.89
60	-	-	1.47	1.83	2.25	2.74	3.29
65	-	-	-	1.52	1.88	2.29	2.77
70	-	-	-	-	1.55	1.91	2.32

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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**R407C****Cooling capacity [kW]**

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
25	24.79	31.03	38.41	47.06	57.12	68.74	82.04	-
30	23.30	29.34	36.46	44.81	54.54	65.77	78.65	93.32
35	21.74	27.55	34.40	42.43	51.80	62.63	75.06	89.24
40	20.10	25.66	32.22	39.92	48.91	59.32	71.29	84.96
45	-	23.68	29.93	37.28	45.87	55.84	67.33	80.48
50	-	-	27.53	34.51	42.68	52.19	63.18	75.79
55	-	-	-	31.61	39.35	48.39	58.86	70.90
60	-	-	-	-	35.88	44.42	54.35	65.82
65	-	-	-	-	-	40.30	49.67	60.53

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
25	8.97	9.07	9.16	9.21	9.17	9.00	8.64	-
30	9.97	10.05	10.16	10.26	10.31	10.26	10.07	9.68
35	11.14	11.18	11.28	11.41	11.52	11.57	11.51	11.29
40	12.54	12.51	12.58	12.71	12.85	12.97	13.01	12.94
45	-	14.09	14.10	14.20	14.35	14.51	14.64	14.68
50	-	-	15.89	15.94	16.08	16.25	16.43	16.56
55	-	-	-	17.98	18.07	18.23	18.43	18.62
60	-	-	-	-	20.38	20.51	20.71	20.93
65	-	-	-	-	-	23.13	23.30	23.53

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**Current [A]**

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
25	18.58	18.70	18.78	18.84	18.91	19.02	19.19	-
30	19.75	19.90	20.01	20.09	20.18	20.30	20.48	20.74
35	21.11	21.28	21.41	21.51	21.61	21.74	21.93	22.19
40	22.72	22.91	23.05	23.17	23.28	23.41	23.59	23.85
45	-	24.86	25.01	25.12	25.24	25.37	25.54	25.79
50	-	-	27.33	27.45	27.55	27.67	27.84	28.07
55	-	-	-	30.20	30.29	30.40	30.55	30.76
60	-	-	-	-	33.53	33.61	33.73	33.91
65	-	-	-	-	-	37.37	37.46	37.61

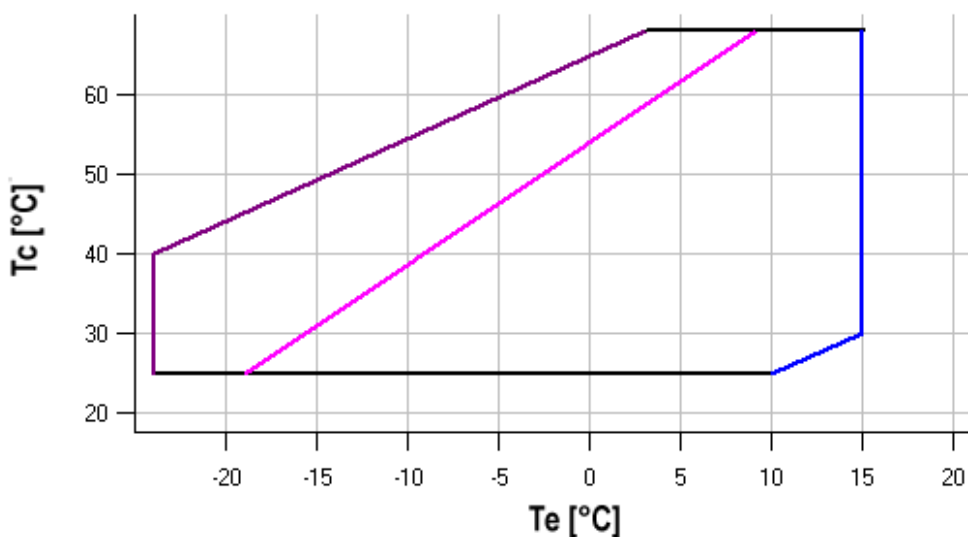
Mass flow [kg/h]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
25	496.08	614.27	749.93	905.41	1 083.06	1 285.23	1 514.28	-
30	490.34	608.30	744.01	899.81	1 078.06	1 281.10	1 511.29	1 770.98
35	481.15	599.08	735.03	891.35	1 070.39	1 274.50	1 506.03	1 767.34
40	468.37	586.46	722.84	879.87	1 059.90	1 265.27	1 498.34	1 761.46
45	-	570.28	707.29	865.23	1 046.44	1 253.27	1 488.08	1 753.20
50	-	-	688.23	847.27	1 029.86	1 238.34	1 475.07	1 742.41
55	-	-	-	825.83	1 009.99	1 220.33	1 459.18	1 728.91
60	-	-	-	-	986.70	1 199.07	1 440.25	1 712.57
65	-	-	-	-	-	1 174.43	1 418.12	1 693.23

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
25	2.76	3.42	4.19	5.11	6.23	7.64	9.49	-
30	2.34	2.92	3.59	4.37	5.29	6.41	7.81	9.64
35	1.95	2.46	3.05	3.72	4.50	5.41	6.52	7.90
40	1.60	2.05	2.56	3.14	3.81	4.57	5.48	6.57
45	-	1.68	2.12	2.63	3.20	3.85	4.60	5.48
50	-	-	1.73	2.16	2.66	3.21	3.85	4.58
55	-	-	-	1.76	2.18	2.65	3.19	3.81
60	-	-	-	-	1.76	2.17	2.62	3.14
65	-	-	-	-	-	1.74	2.13	2.57

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]

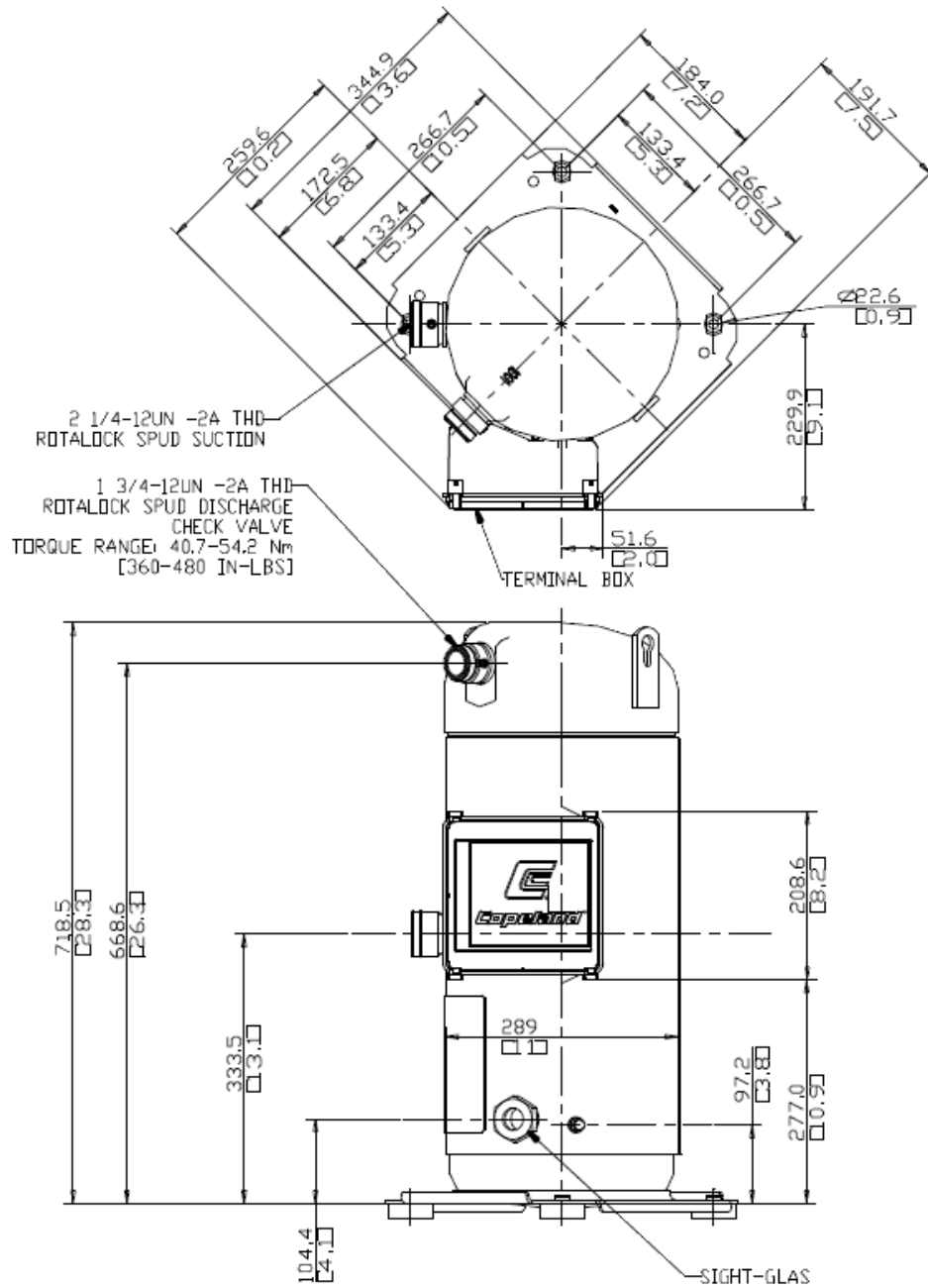
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