
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: Maneurop****Series: SZ****Model: SZ175****Technical data**

Displacement [m ³ /h]:	40,5
:	233
RPM [min ⁻¹]:	2900
Weight [kg]:	100
Oil charge [dm ³]:	6,2
Oil type:	160SZ
Maximum system test pressure low side / high side:	25 / 32
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	14
Refrigerant:	R407C, R134a, R404A/R507A

Connections

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

Approvals

CCC	-
CE	+
UL	+

R134a

Cooling capacity [W]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	13 948	17 736	22 191	27 375	33 353	40 188	47 944
35	13 182	16 876	21 211	26 249	32 054	38 691	46 222
40	12 390	15 974	20 172	25 047	30 664	37 085	44 375
45	11 576	15 033	19 078	23 774	29 186	35 376	42 408
50	10 745	14 058	17 934	22 434	27 624	33 566	40 325
55	-	13 053	16 742	21 031	25 983	31 661	38 129
60	-	-	15 508	19 568	24 265	29 663	35 825
65	-	-	-	18 050	22 476	27 577	33 416
70	-	-	-	16 480	20 619	25 407	30 907

Power input [W]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	5 195	5 260	5 312	5 347	5 360	5 348	5 305
35	5 701	5 770	5 826	5 865	5 884	5 877	5 842
40	6 277	6 349	6 409	6 454	6 478	6 478	6 450
45	6 928	7 004	7 069	7 119	7 150	7 157	7 137
50	7 661	7 741	7 811	7 867	7 904	7 920	7 908
55	-	8 565	8 641	8 704	8 749	8 772	8 769
60	-	-	9 566	9 635	9 688	9 720	9 727
65	-	-	-	10 668	10 729	10 770	10 787
70	-	-	-	11 808	11 878	11 929	11 956

Current [A]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	13.66	13.74	13.80	13.83	13.83	13.79	13.70
35	14.11	14.20	14.26	14.30	14.31	14.27	14.20
40	14.67	14.75	14.82	14.87	14.89	14.87	14.81
45	15.33	15.43	15.50	15.56	15.59	15.58	15.54
50	16.12	16.22	16.31	16.38	16.42	16.43	16.39
55	-	17.16	17.26	17.34	17.39	17.41	17.40
60	-	-	18.36	18.46	18.52	18.56	18.56
65	-	-	-	19.74	19.82	19.87	19.89
70	-	-	-	21.20	21.30	21.37	21.40

Mass flow [kg/s]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	298.27	371.72	456.03	552.12	660.91	783.35	920.35
35	293.61	368.29	453.73	550.85	660.58	783.86	921.61
40	288.45	364.15	450.51	548.46	658.92	782.83	921.12
45	282.74	359.26	446.34	544.90	655.89	780.23	918.84
50	276.46	353.58	441.16	540.14	651.44	776.00	914.73
55	-	347.06	434.95	534.13	645.54	770.10	908.75
60	-	-	427.65	526.83	638.14	762.50	900.85
65	-	-	-	518.20	629.20	753.16	891.01
70	-	-	-	508.20	618.68	742.03	879.16

C.O.P. [W/W]

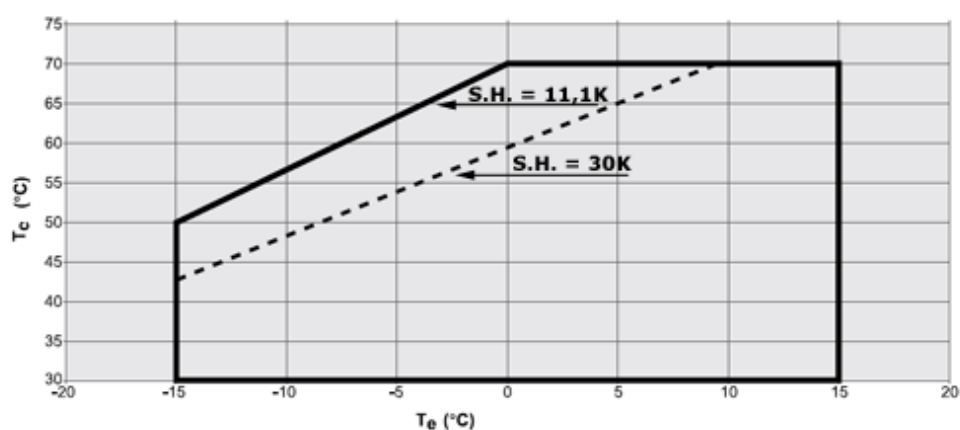
$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
30	2.68	3.37	4.18	5.12	6.22	7.51	9.04
35	2.31	2.92	3.64	4.48	5.45	6.58	7.91
40	1.97	2.52	3.15	3.88	4.73	5.72	6.88
45	1.67	2.15	2.70	3.34	4.08	4.94	5.94
50	1.40	1.82	2.30	2.85	3.49	4.24	5.10
55	-	1.52	1.94	2.42	2.97	3.61	4.35
60	-	-	1.62	2.03	2.50	3.05	3.68
65	-	-	-	1.69	2.09	2.56	3.10
70	-	-	-	1.40	1.74	2.13	2.59

Operating conditions: suction superheat: 11.1 K, subcooling: 8.3 K

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



R407C

Cooling capacity [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	16 466	20 944	26 279	32 558	39 868	48 296	57 930	68 857
35	15 464	19 827	25 003	31 082	38 148	46 291	55 598	66 154
40	14 429	18 648	23 637	29 486	36 281	44 110	53 060	63 218
45	-	17 404	22 178	27 769	34 264	41 750	50 314	60 045
50	-	-	20 623	25 928	32 093	39 208	47 358	56 633
55	-	-	-	23 960	29 767	36 482	44 190	52 979
60	-	-	-	-	27 284	33 569	40 806	49 081
65	-	-	-	-	24 640	30 468	37 205	44 938

Power input [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	7 140	7 215	7 283	7 337	7 375	7 394	7 387	7 353
35	7 959	8 037	8 106	8 163	8 205	8 227	8 225	8 196
40	8 890	8 969	9 041	9 102	9 147	9 173	9 176	9 153
45	-	10 027	10 102	10 166	10 215	10 246	10 255	10 237
50	-	-	11 302	11 370	11 424	11 460	11 474	11 463
55	-	-	-	12 728	12 787	12 828	12 849	12 844
60	-	-	-	-	14 317	14 365	14 392	14 394
65	-	-	-	-	16 030	16 084	16 117	16 127

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	15.59	15.71	15.81	15.89	15.94	15.96	15.94	15.87
35	16.48	16.60	16.71	16.79	16.85	16.88	16.87	16.82
40	17.55	17.68	17.79	17.88	17.95	17.98	17.98	17.94
45	-	18.95	19.07	19.17	19.24	19.29	19.30	19.27
50	-	-	20.58	20.68	20.77	20.83	20.85	20.83
55	-	-	-	22.46	22.56	22.63	22.66	22.66
60	-	-	-	-	24.63	24.71	24.76	24.77
65	-	-	-	-	27.02	27.11	27.17	27.20

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	318.42	398.11	490.77	597.70	720.23	859.68	1 017.36	1 194.59
35	312.13	393.12	486.93	594.90	718.35	858.58	1 016.92	1 194.70
40	305.33	387.24	481.86	590.51	714.52	855.18	1 013.84	1 191.80
45	-	380.16	475.24	584.22	708.42	849.17	1 007.79	1 185.58
50	-	-	466.75	575.70	699.76	840.23	998.45	1 175.72
55	-	-	-	564.64	688.20	828.04	985.51	1 161.90
60	-	-	-	-	673.43	812.29	968.65	1 143.81
65	-	-	-	-	655.13	792.66	947.55	1 121.13

C.O.P. [W/W]

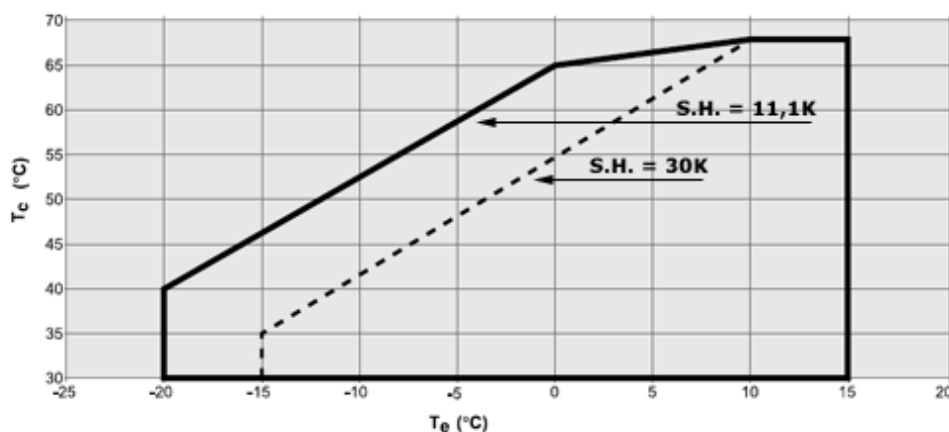
$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	2.31	2.90	3.61	4.44	5.41	6.53	7.84	9.36
35	1.94	2.47	3.08	3.81	4.65	5.63	6.76	8.07
40	1.62	2.08	2.61	3.24	3.97	4.81	5.78	6.91
45	-	1.74	2.20	2.73	3.35	4.07	4.91	5.87
50	-	-	1.82	2.28	2.81	3.42	4.13	4.94
55	-	-	-	1.88	2.33	2.84	3.44	4.12
60	-	-	-	-	1.91	2.34	2.84	3.41
65	-	-	-	-	1.54	1.89	2.31	2.79

Operating conditions: suction superheat: 11.1 K, subcooling: 8.3 K

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



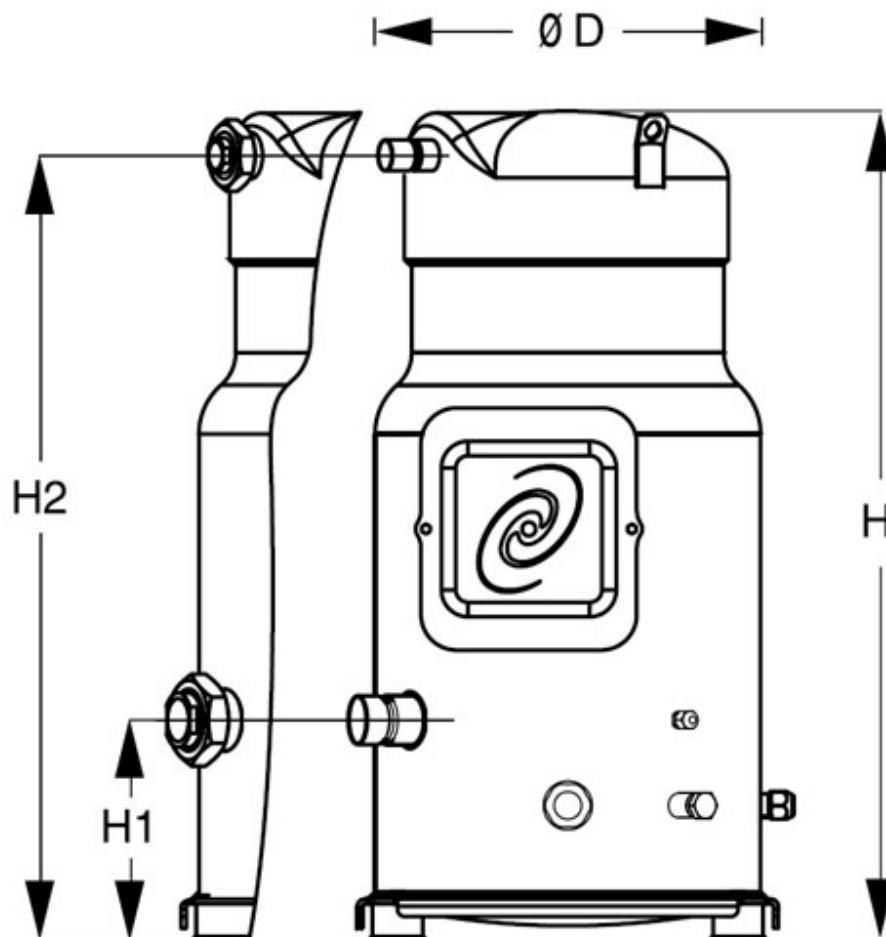
GACO SARL

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



D	316
H	678 mm
H1	180 mm
H2	641 mm

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



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



Equipment

- ▶ oil equalization - thread adapter 3/8"
- ▶ belt type heater - crankcase heater 75W, 230V
- ▶ soft-start kit - electronic softstart MCI 25C
- ▶ accoustic hood - acoustic shield of Danfoss catalogue number 7755007
- ▶ discharge thermostatic protection - discharge temperature protection accessory - Danfoss catalogue number 7750009