

Type: Hermetic scroll compressors

Producer: Maneurop

Series: SZ

Model: SZ 090-4

Technical data

Displacement [m ³ /h]:	20,97
RPM [min ⁻¹]:	2900
Weight [kg]:	72
Oil charge [dm ³]:	3,25
Power supply [V/~/Hz]:	400V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		1 1/8"
Discharge line:		3/4"

R134a

Cooling capacity [W]

$t_c \setminus t_e$	-15	-12.5	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15
30	7 100	8 000	9 100	10 200	11 300	12 600	14 000	15 500	17 100	18 700	20 500	22 500	24 500
35	6 700	7 600	8 600	9 700	10 900	12 100	13 400	14 900	16 400	18 000	19 800	21 600	23 600
40	6 300	7 200	8 200	9 200	10 300	11 500	12 800	14 200	15 700	17 300	19 000	20 700	22 600
45	5 900	6 800	7 700	8 700	9 800	10 900	12 200	13 500	14 900	16 400	18 000	19 800	21 600
50	5 500	6 300	7 200	8 100	9 200	10 300	11 400	12 700	14 100	15 500	17 000	18 700	20 500
55	-	-	6 600	7 500	8 500	9 600	10 700	11 900	13 200	14 600	16 100	17 700	19 300
60	-	-	-	6 900	7 800	8 800	9 900	11 000	12 300	13 700	15 200	16 800	18 400
65	-	-	-	-	-	8 100	9 100	10 100	11 300	12 600	14 000	15 500	17 000

Power input [kW]

$t_c \setminus t_e$	-15	-12.5	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15
30	2.64	2.65	2.65	2.66	2.66	2.65	2.65	2.64	2.62	2.61	2.58	2.56	2.53
35	2.93	2.94	2.95	2.95	2.95	2.95	2.95	2.94	2.93	2.91	2.89	2.87	2.84
40	3.26	3.27	3.28	3.28	3.29	3.29	3.28	3.28	3.27	3.25	3.24	3.21	3.19
45	3.63	3.64	3.65	3.66	3.66	3.66	3.66	3.66	3.65	3.64	3.62	3.60	3.58
50	4.05	4.06	4.07	4.08	4.08	4.09	4.09	4.09	4.08	4.07	4.06	4.04	4.02
55	-	-	4.54	4.55	4.55	4.56	4.56	4.56	4.56	4.55	4.54	4.53	4.51
60	-	-	-	5.07	5.08	5.08	5.09	5.09	5.09	5.08	5.08	5.07	5.05
65	-	-	-	-	-	5.66	5.67	5.67	5.68	5.67	5.67	5.66	5.65

Operating conditions: 11.1K suction superheat, 8.3K subcooling

 t_c - Condensing temperature [°C]

 t_e - Evaporating temperature [°C]

R407C
Cooling capacity [W]

$t_c \setminus t_e$	-20	-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15
30	8 100	10 400	13 100	14 700	16 400	18 200	20 200	22 300	24 600	27 100	29 700	32 500	35 500
35	7 600	9 800	12 500	14 000	15 600	17 400	19 300	21 400	23 600	25 900	28 500	31 200	34 100
40	7 100	9 200	11 800	13 200	14 800	16 500	18 300	20 300	22 400	24 700	27 200	29 800	32 500
45	-	8 600	11 000	12 400	13 900	15 500	17 300	19 200	21 200	23 400	25 700	28 200	30 900
50	-	-	10 300	11 600	13 000	14 500	16 200	18 000	19 900	22 000	24 200	26 600	29 100
55	-	-	-	10 600	12 000	13 500	15 200	16 900	18 700	20 600	22 600	24 700	27 000
60	-	-	-	-	-	12 300	13 700	15 300	17 000	18 800	20 700	22 700	25 000
65	-	-	-	-	-	-	12 400	13 800	15 400	17 100	18 900	20 900	23 000

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-7.5	-5	-2.5	0	2.5	5	7.5	10	12.5	15
30	3.68	3.72	3.75	3.77	3.78	3.78	3.78	3.78	3.77	3.76	3.74	3.71	3.68
35	4.10	4.14	4.17	4.19	4.20	4.21	4.21	4.21	4.20	4.19	4.17	4.15	4.12
40	4.56	4.61	4.65	4.66	4.68	4.69	4.69	4.69	4.69	4.68	4.67	4.65	4.62
45	-	5.14	5.18	5.20	5.21	5.22	5.23	5.23	5.23	5.23	5.22	5.20	5.18
50	-	-	5.78	5.80	5.81	5.83	5.84	5.84	5.85	5.84	5.84	5.82	5.80
55	-	-	-	6.47	6.49	6.50	6.52	6.53	6.53	6.53	6.53	6.52	6.50
60	-	-	-	-	-	7.26	7.28	7.29	7.30	7.30	7.30	7.29	7.28
65	-	-	-	-	-	-	8.12	8.14	8.15	8.16	8.16	8.16	8.15

Operating conditions: 11.1K suction superheat, 8.3K subcooling

 t_c - Condensing temperature [°C]

 t_e - Evaporating temperature [°C]



