

Typ: Sprężarki hermetyczne spiralne

Producent: Copeland

Typoszereg: ZR

Model: ZR125KCE-TFD

Dane techniczne

Wydajność objętościowa [m ³ /h]:	29,1
Natężenie hałasu [dBA]:	74
Ciśnienie akustyczne [dB]:	63
Masa netto [kg]:	61,2
Masa brutto [kg]:	72
Napełnienie olejem [dm ³]:	3,3
Maksymalne wysokie ciśnienie [bar]:	32
Maksymalne stałe ciśnienie [bar]:	20
Minimalna temperatura nasycenia TS [°C]:	-35
Maksymalna temperatura nasycenia TS [°C]:	52
Kategoria PED:	2

Dane elektryczne

Zasilanie [V/~/Hz]:	380-420/3/50Hz
Prąd zwarcia [A]:	118
Max. pobór prądu [A]:	19,6
Oporność uzwojenia [Ω]:	1,2

Przyłącza

	<u>cale</u>
Przyłącze rurowe na ssaniu (lutowane):	1 3/8"
Przyłącze rurowe na tłoczeniu (lutowane):	7/8"

R134a

Wydajność chłodnicza [kW]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
25	9.19	11.59	14.43	17.72	21.50	25.76	-
30	8.66	10.95	13.68	16.86	20.51	24.64	29.28
35	8.12	10.30	12.90	15.96	19.48	23.47	27.96
40	7.58	9.63	12.11	15.03	18.40	22.24	26.57
45	7.05	8.97	11.30	14.07	17.28	20.96	25.12
50	-	8.30	10.48	13.08	16.13	19.63	23.61
55	-	7.63	9.64	12.07	14.94	18.26	22.05
60	-	-	8.81	11.05	13.73	16.85	20.44
65	-	-	7.97	10.02	12.50	15.41	18.78
70	-	-	-	8.98	11.24	13.94	17.08
75	-	-	-	7.94	9.98	12.44	15.34

Pobór mocy [kW]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
25	3.13	3.16	3.24	3.34	3.43	3.49	-
30	3.52	3.54	3.61	3.70	3.77	3.80	3.76
35	3.94	3.96	4.02	4.10	4.15	4.16	4.10
40	4.39	4.42	4.48	4.54	4.59	4.59	4.51
45	4.87	4.90	4.97	5.04	5.08	5.06	4.97
50	-	5.43	5.50	5.57	5.62	5.60	5.50
55	-	5.99	6.08	6.16	6.20	6.19	6.08
60	-	-	6.69	6.79	6.84	6.83	6.73
65	-	-	7.35	7.46	7.54	7.54	7.44
70	-	-	-	8.18	8.28	8.29	8.21
75	-	-	-	8.95	9.07	9.11	9.04

Prad [A]

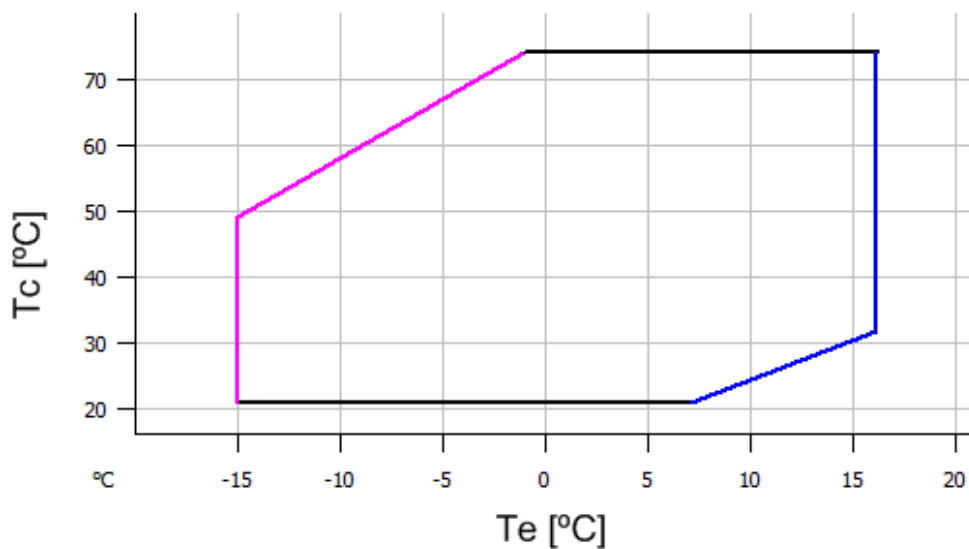
$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
25	10.13	10.19	10.25	10.29	10.32	10.33	-
30	10.39	10.44	10.48	10.51	10.52	10.49	10.43
35	10.70	10.75	10.79	10.81	10.79	10.75	10.66
40	11.07	11.13	11.17	11.18	11.16	11.10	10.99
45	11.49	11.56	11.61	11.63	11.61	11.54	11.43
50	-	12.05	12.12	12.15	12.14	12.08	11.96
55	-	12.60	12.69	12.75	12.75	12.71	12.60
60	-	-	13.34	13.42	13.45	13.42	13.33
65	-	-	14.04	14.17	14.23	14.23	14.16
70	-	-	-	14.98	15.09	15.13	15.09
75	-	-	-	15.87	16.03	16.11	16.12

Przepływ masowy [kg/h]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
25	202.95	251.18	306.88	369.99	440.46	518.22	-
30	200.23	248.17	303.87	367.28	438.35	517.02	603.22
35	197.37	244.80	300.29	363.79	435.25	514.60	601.78
40	194.36	241.06	296.13	359.51	431.13	510.95	598.90
45	191.17	236.94	291.36	354.40	425.98	506.05	594.55
50	-	232.40	285.98	348.45	419.78	499.89	588.73
55	-	227.45	279.96	341.66	412.51	492.44	581.41
60	-	-	273.28	334.00	404.16	483.70	572.57
65	-	-	265.93	325.45	394.70	473.64	562.21
70	-	-	-	316.00	384.14	462.25	550.29
75	-	-	-	305.62	372.43	449.51	536.82

C.O.P. [W/W]

$t_c \setminus t_e$	-15	-10	-5	0	5	10	15
25	2.93	3.66	4.45	5.30	6.26	7.38	-
30	2.46	3.09	3.79	4.56	5.45	6.49	7.78
35	2.06	2.60	3.21	3.90	4.69	5.64	6.81
40	1.73	2.18	2.71	3.31	4.01	4.85	5.89
45	1.45	1.83	2.27	2.79	3.40	4.14	5.05
50	-	1.53	1.90	2.35	2.87	3.51	4.29
55	-	1.27	1.59	1.96	2.41	2.95	3.62
60	-	-	1.32	1.63	2.01	2.47	3.04
65	-	-	1.08	1.34	1.66	2.04	2.52
70	-	-	-	1.10	1.36	1.68	2.08
75	-	-	-	0.89	1.10	1.37	1.70

Zakres zastosowania


- Maksymalna temperatura parowania
- Temperatura gazu zasysanego 25°C
- Przegrzanie gazu 10K

Warunki robocze: przegrzanie na ssaniu 10K, dochłodzenie 0K

t_c - Temperatura skraplania [°C]

t_e - Temperatura odparowania [°C]

R407C

Wydajność chłodnicza [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	9.92	12.57	15.71	19.42	23.77	28.86	34.75	41.54	-	-
30	9.21	11.84	14.94	18.57	22.83	27.78	33.51	40.10	47.63	-
35	8.41	11.02	14.06	17.61	21.75	26.55	32.10	38.49	45.77	54.05
40	-	10.10	13.08	16.53	20.54	25.18	30.54	36.70	43.74	51.74
45	-	-	11.99	15.33	19.20	23.67	28.83	34.76	41.53	49.23
50	-	-	-	14.02	17.73	22.02	26.97	32.64	39.14	46.53
55	-	-	-	-	16.15	20.24	24.96	30.38	36.58	43.65
60	-	-	-	-	-	18.33	22.80	27.95	33.85	40.59
65	-	-	-	-	-	-	20.51	25.38	30.96	37.35

Pobór mocy [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	4.38	4.44	4.49	4.53	4.60	4.69	4.83	5.03	-	-
30	4.90	4.97	5.02	5.05	5.10	5.16	5.26	5.41	5.63	-
35	5.46	5.55	5.61	5.65	5.68	5.72	5.79	5.90	6.06	6.29
40	-	6.20	6.28	6.32	6.35	6.38	6.43	6.50	6.62	6.79
45	-	-	7.03	7.09	7.12	7.15	7.18	7.23	7.31	7.43
50	-	-	-	7.96	8.00	8.03	8.05	8.08	8.14	8.23
55	-	-	-	-	9.01	9.04	9.07	9.08	9.12	9.18
60	-	-	-	-	-	10.19	10.22	10.24	10.26	10.30
65	-	-	-	-	-	-	11.54	11.56	11.57	11.60

Prąd [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	10.61	10.67	10.71	10.76	10.82	10.91	11.05	11.26	-	-
30	11.10	11.18	11.22	11.26	11.31	11.38	11.48	11.64	11.86	-
35	11.69	11.79	11.85	11.89	11.93	11.98	12.05	12.17	12.34	12.59
40	-	12.52	12.61	12.66	12.69	12.73	12.78	12.87	13.00	13.19
45	-	-	13.51	13.58	13.63	13.66	13.70	13.76	13.85	14.00
50	-	-	-	14.69	14.74	14.78	14.81	14.85	14.92	15.02
55	-	-	-	-	16.06	16.11	16.14	16.17	16.22	16.29
60	-	-	-	-	-	17.67	17.71	17.74	17.77	17.82
65	-	-	-	-	-	-	19.54	19.57	19.60	19.63

Przepływ masowy [kg/h]

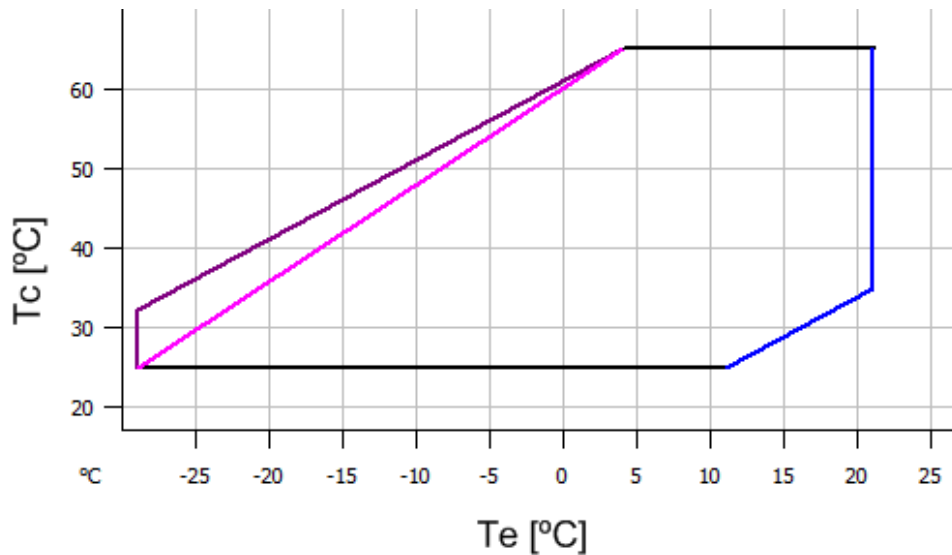
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	201.37	252.69	311.63	379.50	457.62	547.31	649.89	766.67	-	-
30	196.92	249.60	309.84	378.94	458.22	549.01	652.63	770.38	903.60	-
35	189.91	244.02	305.63	376.04	456.57	548.54	653.26	772.07	906.27	1 057.19
40	-	235.69	298.74	370.53	452.38	545.61	651.53	771.46	906.73	1 058.64
45	-	-	288.90	362.15	445.40	539.96	647.15	768.29	904.70	1 057.69
50	-	-	-	350.63	435.35	531.32	639.86	762.28	899.91	1 054.06
55	-	-	-	-	421.97	519.43	629.39	753.17	892.10	1 047.48
60	-	-	-	-	-	504.01	615.47	740.69	880.99	1 037.68
65	-	-	-	-	-	-	597.83	724.57	866.31	1 024.39






C.O.P. [W/W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	2.26	2.83	3.50	4.28	5.17	6.15	7.19	8.26	-	-
30	1.88	2.38	2.98	3.67	4.48	5.38	6.37	7.41	8.47	-
35	1.54	1.98	2.51	3.12	3.83	4.64	5.54	6.52	7.55	8.59
40	-	1.63	2.08	2.61	3.23	3.95	4.75	5.65	6.61	7.62
45	-	-	1.71	2.16	2.69	3.31	4.02	4.81	5.68	6.62
50	-	-	-	1.76	2.22	2.74	3.35	4.04	4.81	5.66
55	-	-	-	-	1.79	2.24	2.75	3.34	4.01	4.76
60	-	-	-	-	-	1.80	2.23	2.73	3.30	3.94
65	-	-	-	-	-	-	1.78	2.20	2.68	3.22

Zakres zastosowania



-  Maksymalna temperatura parowania
-  Temperatura gazu zasysanego 25°C
-  Przegrzanie gazu 10K

Warunki robocze: przegrzanie na ssaniu 10K, dochłodzenie 0K

t_c - Temperatura skraplania [°C]

t_e - Temperatura odparowania [°C]

