



ELEKTRONIKA S.A.
TECHNIKA CHŁODNICZA I KLIMATYZACJA

Model: ZB30KCE-PFJ

Data

Type: Hermetic scroll compressors

Producer: Copeland

Series: ZB

Model: ZB30KCE-PFJ

Technical data

Displacement [m ³ /h]:	11,7
Sound power [dBA]:	70
Sound pressure level [dB]:	59
Net Weight [kg]:	35,4
Oil charge [dm ³]:	1,9
Maximum high pressure [bar]:	28,8
Maximum standstill pressure [bar]:	21
Minimal lowside temperature [°C]:	-35
Maximum lowside temperature [°C]:	50
PED category:	1

Electrical data

Power supply [V/~/Hz]:	220-240V/1/50Hz
Locked rotor current [A]:	142
Max. operating current [A]:	26,4
Winding resistance [Ω]:	0,4

Connections

	<u>inches</u>
Suction Rotolock valve connection:	7/8"
Discharge Rotolock valve connection:	1/2"

R404A/R507

Cooling capacity [kW]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
10	2.97	3.72	4.67	5.82	7.20	8.83	10.72	-	-	-	-
15	2.73	3.49	4.42	5.54	6.87	8.43	10.24	12.32	-	-	-
20	2.49	3.25	4.16	5.25	6.52	8.01	9.74	11.71	13.96	-	-
25	2.24	3.00	3.89	4.94	6.16	7.58	9.22	11.09	13.21	15.61	-
30	1.98	2.73	3.60	4.61	5.78	7.13	8.67	10.43	12.44	14.69	17.23
35	1.70	2.45	3.30	4.27	5.38	6.65	8.10	9.76	11.63	13.74	16.12
40	1.41	2.15	2.98	3.91	4.96	6.15	7.51	9.05	10.79	12.76	14.97
45	-	-	2.64	3.52	4.51	5.63	6.89	8.31	9.93	11.75	13.79
50	-	-	-	3.12	4.04	5.08	6.24	7.55	9.03	10.69	12.57
55	-	-	-	-	3.54	4.49	5.56	6.75	8.09	9.61	11.31
60	-	-	-	-	-	3.88	4.84	5.91	7.12	8.48	10.01

Power input [kW]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
10	1.65	1.68	1.71	1.73	1.76	1.79	1.84	-	-	-	-
15	1.81	1.84	1.87	1.89	1.92	1.95	1.98	2.03	-	-	-
20	1.99	2.02	2.05	2.07	2.09	2.12	2.15	2.19	2.25	-	-
25	2.18	2.22	2.25	2.27	2.30	2.32	2.35	2.38	2.43	2.49	-
30	2.40	2.44	2.48	2.50	2.52	2.55	2.57	2.60	2.64	2.69	2.75
35	2.64	2.69	2.73	2.76	2.78	2.80	2.82	2.85	2.88	2.92	2.98
40	2.91	2.96	3.01	3.04	3.06	3.09	3.11	3.13	3.16	3.19	3.24
45	-	-	3.32	3.35	3.38	3.40	3.42	3.44	3.47	3.50	3.54
50	-	-	-	3.70	3.73	3.75	3.77	3.79	3.82	3.84	3.88
55	-	-	-	-	4.11	4.14	4.16	4.18	4.20	4.23	4.26
60	-	-	-	-	-	4.57	4.59	4.61	4.63	4.65	4.68

Current [A]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
10	9.42	9.54	9.65	9.77	9.90	10.06	10.28	-	-	-	-
15	10.11	10.24	10.35	10.46	10.58	10.72	10.90	11.14	-	-	-
20	10.89	11.03	11.16	11.26	11.37	11.50	11.66	11.86	12.12	-	-
25	11.78	11.95	12.08	12.19	12.30	12.42	12.55	12.72	12.95	13.23	-
30	12.78	12.98	13.13	13.26	13.37	13.48	13.60	13.75	13.94	14.18	14.50
35	13.92	14.15	14.32	14.46	14.58	14.69	14.80	14.93	15.09	15.30	15.58
40	15.19	15.46	15.66	15.82	15.95	16.06	16.17	16.29	16.43	16.61	16.85
45	-	-	17.16	17.34	17.49	17.61	17.72	17.83	17.96	18.11	18.32
50	-	-	-	19.04	19.21	19.34	19.46	19.56	19.68	19.82	19.99
55	-	-	-	-	21.11	21.26	21.39	21.50	21.61	21.74	21.89
60	-	-	-	-	-	23.39	23.53	23.65	23.76	23.88	24.01

Mass flow [kg/h]

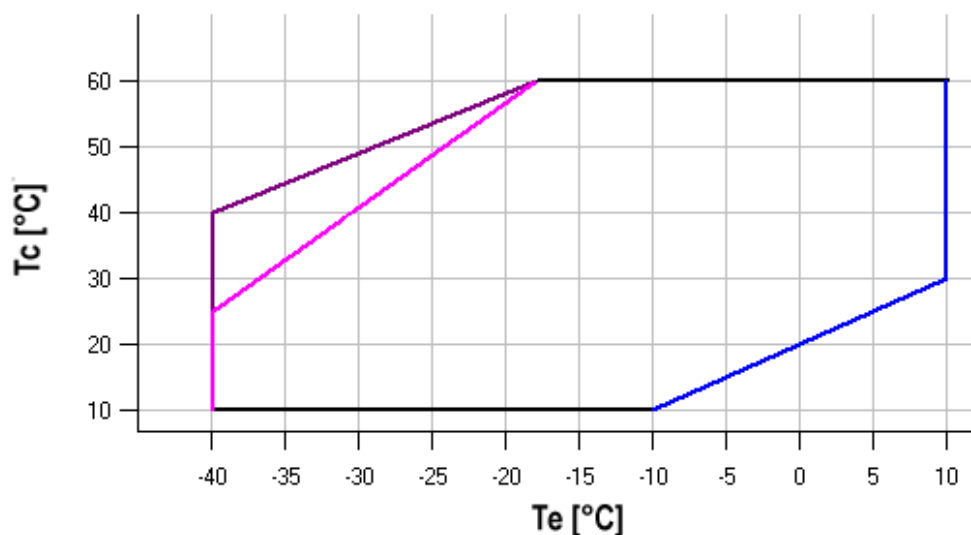
$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
10	57.31	74.84	95.13	119.08	147.58	181.53	221.81	-	-	-	-
15	55.87	73.67	94.15	118.21	146.74	180.64	220.79	268.11	-	-	-
20	53.97	72.07	92.77	116.97	145.56	179.44	219.50	266.64	321.75	-	-
25	51.55	69.98	90.93	115.30	143.98	177.88	217.87	264.86	319.75	383.42	-
30	48.55	67.34	88.57	113.14	141.95	175.88	215.84	262.72	317.41	380.80	453.81
35	44.90	64.08	85.63	110.44	139.40	173.40	213.36	260.15	314.67	377.83	450.50
40	40.55	60.16	82.05	107.12	136.26	170.38	210.35	257.09	311.48	374.42	446.81
45	-	-	77.77	103.13	132.49	166.74	206.77	253.49	307.78	370.53	442.65
50	-	-	-	98.41	128.02	162.43	202.55	249.27	303.49	366.10	437.99
55	-	-	-	-	122.78	157.40	197.63	244.39	298.57	361.05	432.74
60	-	-	-	-	-	151.57	191.96	238.78	292.95	355.34	426.86



C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
10	1.80	2.22	2.74	3.36	4.09	4.92	5.83	-	-	-	-
15	1.51	1.90	2.37	2.93	3.59	4.33	5.16	6.07	-	-	-
20	1.25	1.61	2.03	2.53	3.12	3.78	4.52	5.34	6.22	-	-
25	1.03	1.35	1.73	2.17	2.68	3.27	3.93	4.65	5.44	6.28	-
30	0.82	1.12	1.46	1.84	2.29	2.80	3.37	4.01	4.71	5.47	6.26
35	0.64	0.91	1.21	1.55	1.94	2.38	2.87	3.43	4.04	4.70	5.41
40	0.49	0.73	0.99	1.29	1.62	1.99	2.42	2.89	3.42	4.00	4.62
45	-	-	0.80	1.05	1.34	1.65	2.01	2.41	2.86	3.36	3.89
50	-	-	-	0.84	1.08	1.35	1.65	1.99	2.37	2.78	3.24
55	-	-	-	-	0.86	1.09	1.33	1.61	1.93	2.27	2.66
60	-	-	-	-	-	0.85	1.06	1.28	1.54	1.82	2.14

Application range



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

Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

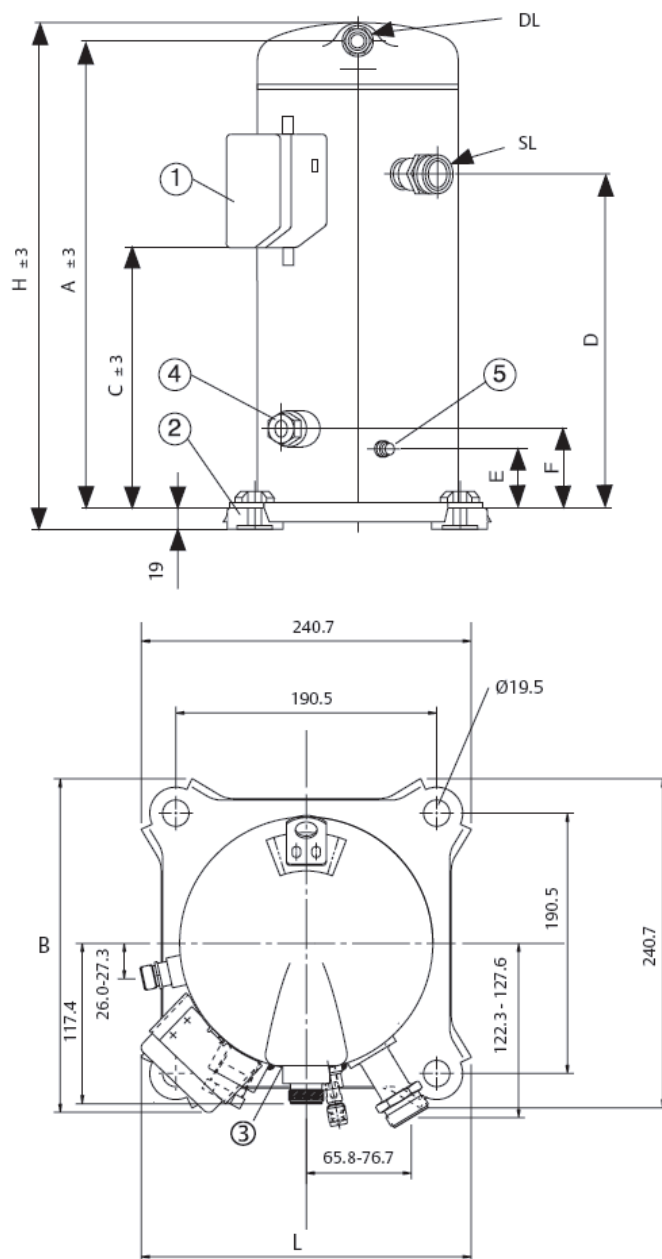
t_e - Evaporating temperature [°C]



ELEKTRONIKA S.A.
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Model: ZB30KCE-PFJ

Dimensions



A	410 mm
B	242 mm
C	233 mm
D	297 mm
E	48 mm
F	81 mm
H	438 mm
L	242 mm



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Image

