

R.E.S.L

Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

Model: ZF11K4E-TFD

Type: Hermetic scroll compressors

Producer: Copeland

Series: ZF

Technical data

Displacement [m ³ /h]:	9,9
Sound power [dBA]:	74
Sound pressure level [dB]:	63
Net Weight [kg]:	28
Gross Weight [kg]:	31
Oil charge [dm ³]:	1,5
Maximum high pressure [bar]:	28,8
Maximum standstill pressure [bar]:	21
Maximum lowside temperature [°C]:	50
PED category:	1

Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	46
Max. operating current [A]:	7
Winding resistance [Ω]:	4

Connections

	<u>inches</u>
Suction Rotolock valve connection:	1 1/4"
Discharge Rotolock valve connection:	1"

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R404A/R507

Capacity

Cooling capacity [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	2.59	3.27	4.09	5.06	6.21	7.55	-	-	-	-
15	2.49	3.15	3.93	4.86	5.95	7.23	8.71	-	-	-
20	2.40	3.03	3.77	4.65	5.68	6.89	8.30	9.92	-	-
25	2.29	2.90	3.60	4.43	5.41	6.55	7.88	9.41	11.17	-
30	2.19	2.76	3.43	4.21	5.12	6.19	7.44	8.88	10.55	12.44
35	2.08	2.62	3.24	3.97	4.82	5.82	6.99	8.34	9.90	11.68
40	1.95	2.46	3.04	3.72	4.51	5.43	6.51	7.77	9.23	10.90
45	1.81	2.29	2.83	3.45	4.17	5.02	6.02	7.18	8.53	10.08
50	1.66	2.10	2.59	3.15	3.81	4.59	5.50	6.56	7.80	9.24
55	1.48	1.89	2.33	2.84	3.43	4.12	4.94	5.91	7.04	8.36
60	-	-	-	-	-	3.63	4.36	5.23	6.25	7.45

Power input [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	1.30	1.35	1.42	1.52	1.64	1.79	-	-	-	-
15	1.40	1.44	1.51	1.60	1.71	1.85	2.00	-	-	-
20	1.52	1.56	1.62	1.70	1.80	1.93	2.07	2.23	-	-
25	1.65	1.68	1.74	1.81	1.91	2.03	2.16	2.32	2.49	-
30	1.80	1.83	1.87	1.95	2.04	2.15	2.28	2.42	2.59	2.76
35	1.96	1.98	2.03	2.10	2.18	2.29	2.41	2.56	2.71	2.88
40	2.14	2.16	2.20	2.27	2.35	2.46	2.58	2.71	2.87	3.03
45	2.33	2.35	2.40	2.46	2.55	2.65	2.76	2.90	3.05	3.21
50	2.54	2.56	2.61	2.68	2.76	2.86	2.98	3.11	3.25	3.41
55	2.77	2.79	2.84	2.91	3.00	3.10	3.22	3.35	3.49	3.65
60	-	-	-	-	-	3.36	3.48	3.62	3.76	3.92

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Current [A]

Capacity

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	4.95	4.98	5.03	5.08	5.15	5.22	-	-	-	-
15	4.96	4.99	5.03	5.09	5.16	5.24	5.33	-	-	-
20	4.97	5.00	5.05	5.11	5.18	5.27	5.37	5.48	-	-
25	5.00	5.03	5.08	5.14	5.22	5.31	5.42	5.54	5.67	-
30	5.06	5.09	5.13	5.20	5.28	5.38	5.49	5.61	5.75	5.90
35	5.14	5.17	5.21	5.28	5.36	5.47	5.58	5.72	5.86	6.02
40	5.26	5.28	5.33	5.40	5.48	5.59	5.71	5.85	6.00	6.17
45	5.41	5.44	5.48	5.55	5.64	5.75	5.87	6.02	6.18	6.36
50	5.62	5.64	5.68	5.75	5.84	5.95	6.08	6.23	6.40	6.59
55	5.87	5.89	5.93	6.00	6.09	6.20	6.33	6.49	6.67	6.86
60	-	-	-	-	-	6.51	6.65	6.81	6.99	7.19

Mass flow [kg/h]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	49.85	65.91	83.59	103.78	127.35	155.20	-	-	-	-
15	50.84	66.54	83.90	103.79	127.11	154.74	187.56	-	-	-
20	51.72	67.08	84.12	103.74	126.81	154.22	186.86	225.61	-	-
25	52.45	67.47	84.21	103.55	126.39	153.60	186.07	224.68	270.32	-
30	52.96	67.66	84.11	103.20	125.81	152.83	185.14	223.62	269.17	322.66
35	53.22	67.60	83.77	102.62	125.01	151.85	184.01	222.38	267.85	321.29
40	53.17	67.25	83.15	101.76	123.96	150.62	182.65	220.91	266.31	319.71
45	52.76	66.55	82.20	100.58	122.58	149.09	180.99	219.17	264.50	317.88
50	51.95	65.46	80.86	99.03	120.85	147.21	179.00	217.09	262.37	315.74
55	50.67	63.92	79.08	97.05	118.70	144.93	176.61	214.63	259.88	313.24
60	-	-	-	-	-	142.19	173.78	211.75	256.97	310.33

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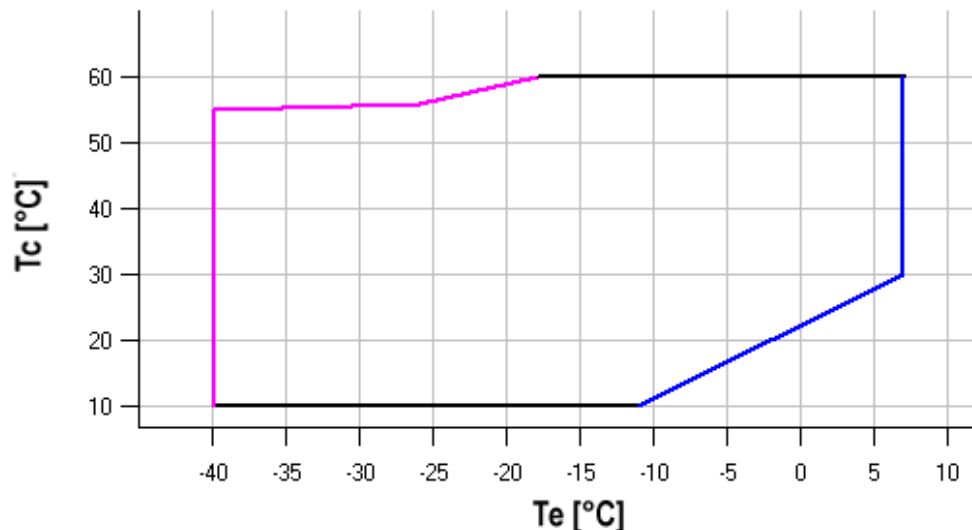
Model: ZF11K4E-TFD

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	2.00	2.43	2.88	3.33	3.78	4.23	-	-	-	-
15	1.78	2.18	2.60	3.04	3.47	3.91	4.36	-	-	-
20	1.57	1.94	2.33	2.74	3.16	3.58	4.01	4.44	-	-
25	1.39	1.72	2.07	2.45	2.83	3.23	3.64	4.06	4.49	-
30	1.22	1.51	1.83	2.16	2.52	2.88	3.27	3.67	4.08	4.50
35	1.06	1.32	1.60	1.89	2.21	2.54	2.89	3.26	3.65	4.05
40	0.91	1.14	1.38	1.64	1.92	2.21	2.53	2.86	3.22	3.60
45	0.78	0.97	1.18	1.40	1.64	1.90	2.18	2.48	2.80	3.14
50	0.65	0.82	0.99	1.18	1.38	1.60	1.85	2.11	2.40	2.71
55	0.54	0.67	0.82	0.97	1.14	1.33	1.54	1.77	2.02	2.29
60	-	-	-	-	-	1.08	1.25	1.45	1.66	1.90

Application range



- Maximum evaporating temperature
- 25°C suction gas return + liquid injection

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

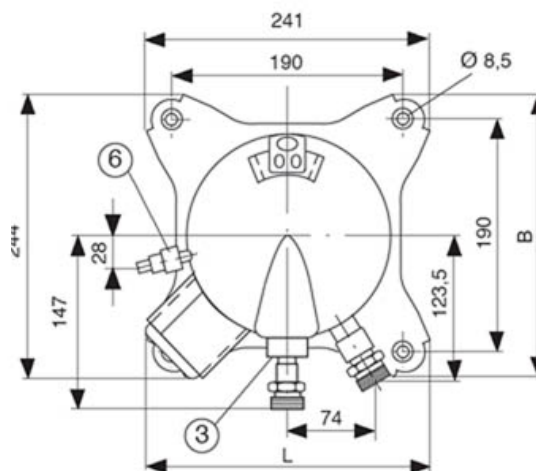
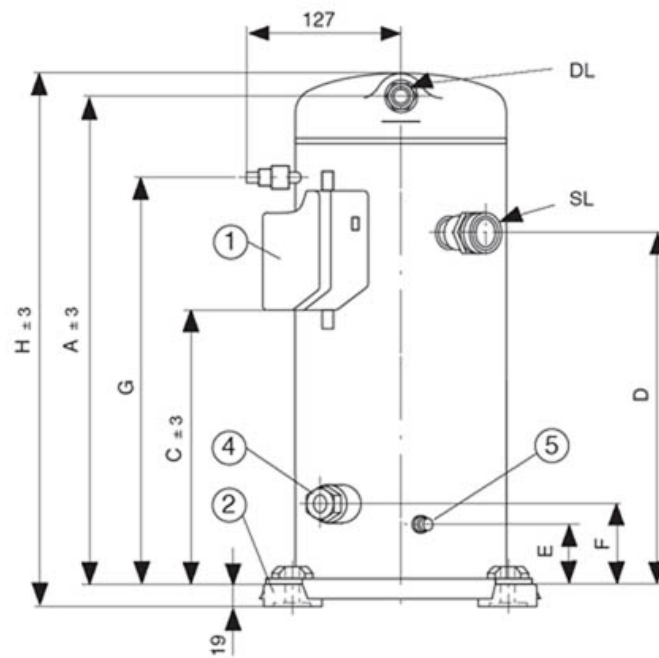
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Dimensions



A	380,3 mm
C	232,1-238,1 mm
C1	-- mm
D	277,3 mm
E	49,6 mm
F	75,1 mm
G	316,2 mm

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Specialist Distributors of Compressors and Refrigeration Spares

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Image

