

Model: ZS26K4E-TFD

Data

Type: Hermetic scroll compressors

Producer: Copeland

Series: ZS

Model: ZS26K4E-TFD

Technical data

Displacement [m ³ /h]:	9,9
Sound power [dBA]:	74
Sound pressure level [dB]:	63
Net Weight [kg]:	33
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]:	4,0

Connections

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

Model: ZS26K4E-TFD

Capacity

R134a

Cooling capacity [kW]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5
25	1.75	2.23	2.82	3.52	4.36	5.34	6.48	-
30	1.67	2.13	2.69	3.37	4.18	5.12	6.21	7.47
35	-	2.03	2.57	3.22	3.99	4.89	5.94	7.15
40	-	1.93	2.44	3.06	3.79	4.66	5.66	6.82
45	-	-	2.31	2.90	3.60	4.42	5.37	6.48
50	-	-	2.18	2.73	3.39	4.17	5.07	6.12
55	-	-	-	2.57	3.18	3.91	4.77	5.76
60	-	-	-	2.39	2.97	3.65	4.45	5.38

Power input [kW]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5
25	0.87	0.93	0.99	1.05	1.12	1.21	1.32	-
30	0.94	1.00	1.06	1.13	1.20	1.28	1.38	1.51
35	-	1.08	1.14	1.21	1.28	1.36	1.46	1.57
40	-	1.16	1.23	1.30	1.37	1.45	1.55	1.66
45	-	-	1.33	1.40	1.48	1.56	1.65	1.76
50	-	-	1.44	1.52	1.60	1.68	1.77	1.88
55	-	-	-	1.65	1.74	1.83	1.92	2.02
60	-	-	-	1.80	1.90	1.99	2.08	2.19

Model: ZS26K4E-TFD

Capacity

Current [A]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5
25	2.39	2.47	2.56	2.65	2.76	2.89	3.04	-
30	2.49	2.58	2.67	2.76	2.87	2.99	3.14	3.33
35	-	2.69	2.79	2.89	2.99	3.11	3.26	3.43
40	-	2.81	2.92	3.02	3.13	3.25	3.39	3.55
45	-	-	3.06	3.18	3.29	3.41	3.54	3.70
50	-	-	3.23	3.35	3.47	3.59	3.73	3.88
55	-	-	-	3.54	3.67	3.80	3.94	4.10
60	-	-	-	3.77	3.91	4.05	4.19	4.35

Mass flow [kg/h]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5
25	33.81	43.36	54.91	68.82	85.47	105.20	128.38	-
30	33.66	43.12	54.63	68.54	85.22	105.03	128.33	155.48
35	-	42.91	54.34	68.22	84.91	104.77	128.16	155.44
40	-	42.71	54.04	67.86	84.53	104.41	127.86	155.24
45	-	-	53.71	67.44	84.07	103.94	127.42	154.88
50	-	-	53.35	66.97	83.51	103.35	126.84	154.34
55	-	-	-	66.41	82.86	102.63	126.10	153.62
60	-	-	-	65.78	82.09	101.77	125.19	152.70

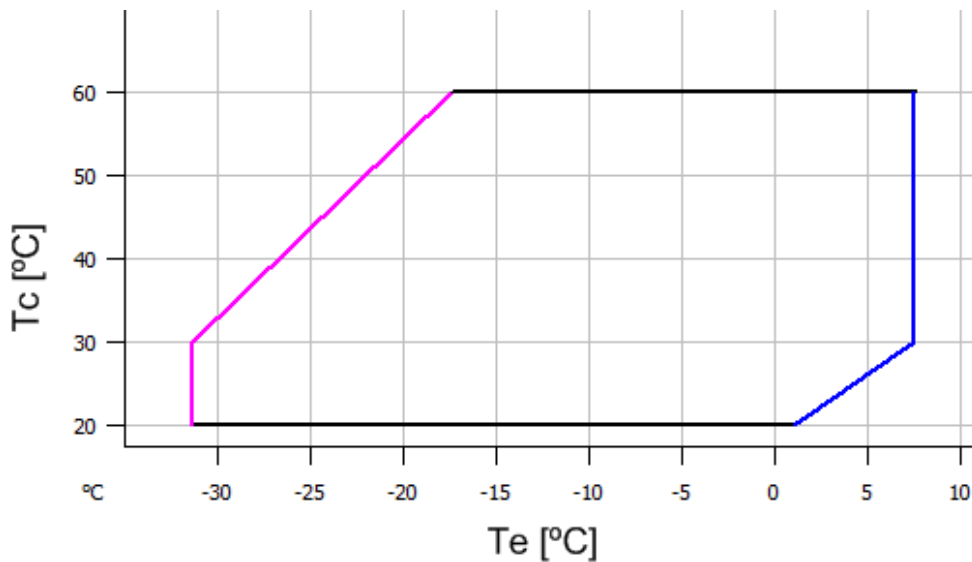
Model: ZS26K4E-TFD

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5
25	2.00	2.40	2.85	3.35	3.88	4.41	4.92	-
30	1.77	2.12	2.53	2.99	3.48	3.99	4.49	4.96
35	-	1.88	2.25	2.66	3.11	3.59	4.07	4.54
40	-	1.66	1.98	2.35	2.76	3.20	3.66	4.11
45	-	-	1.74	2.07	2.43	2.83	3.25	3.68
50	-	-	1.52	1.80	2.12	2.48	2.86	3.26
55	-	-	-	1.55	1.83	2.14	2.49	2.85
60	-	-	-	1.33	1.56	1.83	2.14	2.46

Application range



- Maximum evaporating temperature
- 25°C suction gas temperature

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: ZS26K4E-TFD

Capacity

R404A/R507

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	2.30	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	-	2.29	2.83	3.45	4.17	5.02	6.02	7.18	8.53	10.08
50	-	-	2.59	3.15	3.81	4.59	5.50	6.56	7.80	9.24
55	-	-	-	-	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	-	2.35	2.40	2.46	2.55	2.65	2.76	2.90	3.05	3.21
50	-	-	2.61	2.68	2.76	2.86	2.98	3.11	3.25	3.41
55	-	-	-	-	3.00	3.10	3.22	3.35	3.49	3.65
60	-	-	-	-	-	3.36	3.48	3.62	3.76	3.92

Model: ZS26K4E-TFD

Capacity

Current [A]

t_c \ 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	-	5.44	5.48	5.55	5.64	5.75	5.87	6.02	6.18	6.36
50	-	-	5.68	5.75	5.84	5.95	6.08	6.23	6.40	6.59
55	-	-	-	-	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 \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
10	49.91	65.72	83.37	103.66	127.39	155.36	-	-	-	-
15	51.09	66.44	83.69	103.64	127.09	154.86	187.73	-	-	-
20	52.21	67.09	83.94	103.56	126.74	154.30	187.03	225.73	-	-
25	53.22	67.64	84.09	103.37	126.28	153.63	186.22	224.84	270.30	-
30	54.06	68.02	84.07	103.02	125.67	152.81	185.26	223.80	269.25	322.40
35	54.70	68.20	83.85	102.47	124.85	151.78	184.09	222.55	267.99	321.19
40	55.08	68.12	83.38	101.66	123.77	150.50	182.66	221.05	266.47	319.73
45	-	67.73	82.60	100.55	122.39	148.92	180.94	219.25	264.66	317.97
50	-	-	81.46	99.08	120.66	146.98	178.87	217.10	262.50	315.86
55	-	-	-	-	118.52	144.65	176.39	214.55	259.94	313.35
60	-	-	-	-	-	141.86	173.47	211.56	256.93	310.39

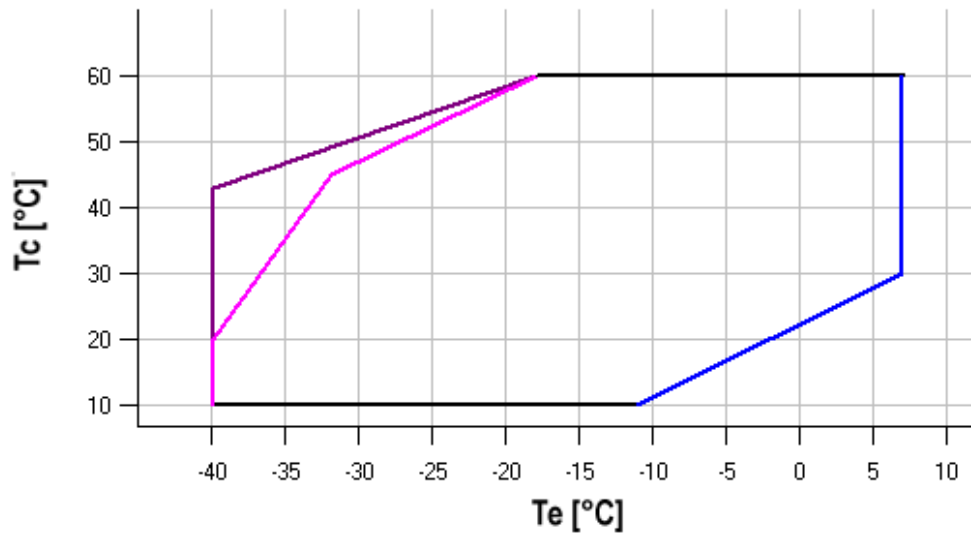
Model: ZS26K4E-TFD

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	-	0.97	1.18	1.40	1.64	1.90	2.18	2.48	2.80	3.14
50	-	-	0.99	1.18	1.38	1.60	1.85	2.11	2.40	2.71
55	-	-	-	-	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 temperature
- 10K gas overheat

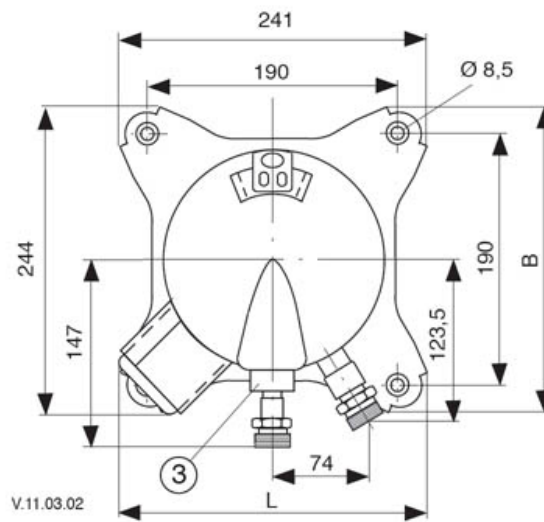
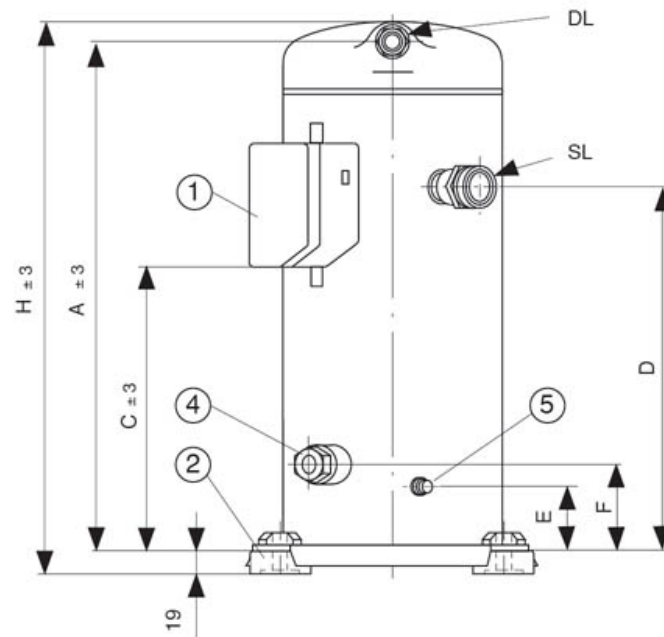
Operating conditions: suction gas temperature 20°C, 0K subcooling

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	- mm

Model: ZS26K4E-TFD

Image

