

# R.E.S.L

## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

### Model: ZB26KCE-PFJ

#### Data

#### Technical data

Nominal motor power [HP]:	3,5
Displacement [m <sup>3</sup> /h]:	9,9
Weight [kg]:	31
Oil charge [dm <sup>3</sup> ]:	1,1

#### Electrical data

Power supply [V/~/Hz]:	220-240V/1/50Hz
Locked rotor current [A]:	46
Max. operating current [A]:	8,9
Winding resistance [ $\Omega$ ]:	4

#### Connections

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

# R.E.S.L

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### Model: ZB26KCE-PFJ

Capacity

R22

#### Cooling capacity [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
15	3.62	4.54	5.63	6.90	8.39	10.11	-	-
20	3.44	4.35	5.40	6.64	8.08	9.74	-	-
25	3.27	4.15	5.18	6.38	7.77	9.37	11.23	-
30	3.10	3.96	4.95	6.11	7.45	9.00	10.78	12.83
35	2.93	3.76	4.72	5.83	7.12	8.61	10.33	12.30
40	2.76	3.56	4.48	5.55	6.78	8.21	9.85	11.74
45	-	3.35	4.23	5.25	6.43	7.79	9.36	11.17
50	-	-	3.96	4.93	6.05	7.35	8.85	10.57
55	-	-	-	4.60	5.66	6.89	8.31	9.95
60	-	-	-	-	5.24	6.40	7.74	9.30
65	-	-	-	-	-	5.89	7.15	8.61

#### Power input [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
15	1.38	1.37	1.35	1.33	1.30	1.27	-	-
20	1.51	1.51	1.49	1.47	1.45	1.42	-	-
25	1.66	1.66	1.65	1.63	1.61	1.59	1.56	-
30	1.84	1.83	1.83	1.81	1.79	1.77	1.74	1.71
35	2.04	2.04	2.03	2.01	1.99	1.97	1.94	1.92
40	2.27	2.27	2.26	2.25	2.23	2.20	2.17	2.14
45	-	2.54	2.53	2.51	2.49	2.46	2.43	2.40
50	-	-	2.83	2.81	2.79	2.76	2.72	2.69
55	-	-	-	3.16	3.13	3.09	3.06	3.02
60	-	-	-	-	3.51	3.47	3.43	3.38
65	-	-	-	-	-	3.90	3.85	3.80

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### Model: ZB26KCE-PFJ

Capacity

#### Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
15	7.91	7.89	7.83	7.75	7.65	7.53	-	-
20	8.41	8.40	8.36	8.29	8.20	8.10	-	-
25	8.97	8.97	8.94	8.88	8.81	8.71	8.61	-
30	9.62	9.63	9.60	9.55	9.48	9.40	9.30	9.19
35	10.39	10.40	10.38	10.33	10.26	10.17	10.07	9.97
40	11.31	11.31	11.28	11.23	11.15	11.06	10.96	10.85
45	-	12.39	12.35	12.29	12.20	12.10	11.99	11.87
50	-	-	13.60	13.52	13.42	13.31	13.18	13.05
55	-	-	-	14.97	14.85	14.71	14.56	14.41
60	-	-	-	-	16.50	16.34	16.17	15.99
65	-	-	-	-	-	18.22	18.01	17.81

#### Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
15	62.53	79.34	98.79	121.61	148.50	180.16	-	-
20	61.52	78.29	97.71	120.48	147.31	178.91	-	-
25	60.56	77.30	96.68	119.40	146.17	177.70	214.71	-
30	59.56	76.26	95.59	118.26	144.97	176.44	213.37	256.46
35	58.38	75.05	94.34	116.95	143.60	175.00	211.85	254.86
40	56.92	73.55	92.80	115.36	141.95	173.27	210.04	252.96
45	-	71.66	90.85	113.36	139.88	171.13	207.82	250.65
50	-	-	88.40	110.84	137.30	168.48	205.08	247.82
55	-	-	-	107.70	134.09	165.19	201.71	244.36
60	-	-	-	-	130.13	161.15	197.59	240.14
65	-	-	-	-	-	156.25	192.60	235.05

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Specialist Distributors of Compressors and Refrigeration Spares

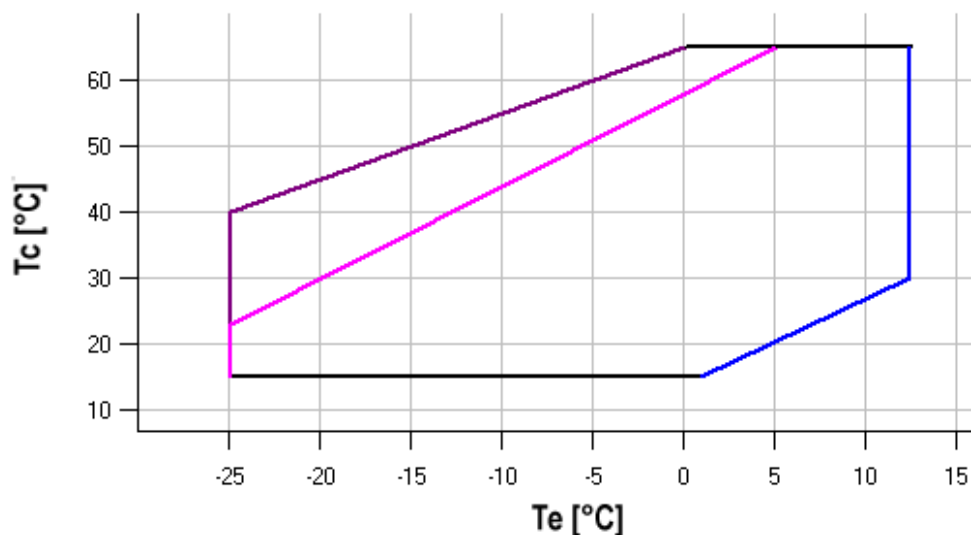
**Model: ZB26KCE-PFJ**




Capacity

### C.O.P. [W/W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
15	2.63	3.32	4.17	5.19	6.44	7.95	-	-
20	2.28	2.89	3.62	4.51	5.57	6.85	-	-
25	1.97	2.50	3.14	3.90	4.82	5.91	7.20	-
30	1.69	2.16	2.71	3.37	4.16	5.09	6.19	7.49
35	1.44	1.85	2.33	2.90	3.57	4.37	5.31	6.42
40	1.21	1.57	1.98	2.47	3.05	3.73	4.54	5.48
45	-	1.32	1.67	2.09	2.58	3.17	3.85	4.66
50	-	-	1.40	1.75	2.17	2.67	3.25	3.93
55	-	-	-	1.46	1.81	2.23	2.72	3.30
60	-	-	-	-	1.49	1.84	2.26	2.75
65	-	-	-	-	-	1.51	1.85	2.27

### 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]

# R.E.S.L

## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

R134a

**Model: ZB26KCE-PFJ**

Capacity

### Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	2.41	3.05	3.83	4.76	5.86	7.14	8.60	-
35	2.25	2.87	3.62	4.52	5.57	6.79	8.20	-
40	2.10	2.70	3.42	4.28	5.28	6.45	7.79	9.31
45	-	2.54	3.22	4.04	4.99	6.10	7.36	8.81
50	-	2.37	3.03	3.79	4.69	5.73	6.93	8.30
55	-	-	2.83	3.55	4.39	5.37	6.49	7.77
60	-	-	-	3.30	4.08	4.99	6.03	7.22
65	-	-	-	3.04	3.76	4.60	5.56	6.66
70	-	-	-	-	3.43	4.19	5.07	6.09
75	-	-	-	-	3.09	3.78	4.57	5.49

### Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	1.35	1.35	1.33	1.30	1.28	1.27	1.30	-
35	1.50	1.51	1.49	1.46	1.43	1.42	1.44	-
40	1.67	1.68	1.66	1.63	1.60	1.58	1.59	1.63
45	-	1.86	1.84	1.82	1.79	1.77	1.77	1.80
50	-	2.05	2.05	2.02	2.00	1.97	1.97	1.99
55	-	-	2.27	2.25	2.23	2.20	2.19	2.21
60	-	-	-	2.50	2.48	2.46	2.45	2.47
65	-	-	-	2.78	2.77	2.75	2.74	2.75
70	-	-	-	-	3.09	3.08	3.07	3.08
75	-	-	-	-	3.44	3.44	3.44	3.45

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## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

### Model: ZB26KCE-PFJ

Capacity

#### Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	8.61	8.56	8.48	8.39	8.31	8.27	8.28	-
35	9.11	9.08	9.01	8.93	8.85	8.80	8.80	-
40	9.65	9.64	9.58	9.51	9.43	9.37	9.36	9.42
45	-	10.27	10.22	10.15	10.08	10.02	10.00	10.05
50	-	10.98	10.95	10.89	10.82	10.77	10.74	10.78
55	-	-	11.79	11.75	11.68	11.63	11.60	11.63
60	-	-	-	12.74	12.68	12.63	12.60	12.62
65	-	-	-	13.89	13.85	13.80	13.77	13.79
70	-	-	-	-	15.20	15.16	15.13	15.14
75	-	-	-	-	16.76	16.73	16.71	16.72

#### Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	48.28	61.85	78.18	97.73	121.00	148.45	180.57	-
35	47.62	61.10	77.37	96.89	120.16	147.63	179.80	-
40	47.08	60.44	76.60	96.06	119.28	146.74	178.92	216.29
45	-	59.80	75.83	95.18	118.31	145.72	177.87	215.24
50	-	59.15	75.00	94.19	117.21	144.52	176.60	213.93
55	-	-	74.06	93.06	115.91	143.09	175.07	212.32
60	-	-	-	91.73	114.38	141.38	173.21	210.35
65	-	-	-	90.15	112.56	139.35	170.99	207.97
70	-	-	-	-	110.39	136.93	168.35	205.13
75	-	-	-	-	107.84	134.09	165.24	201.78

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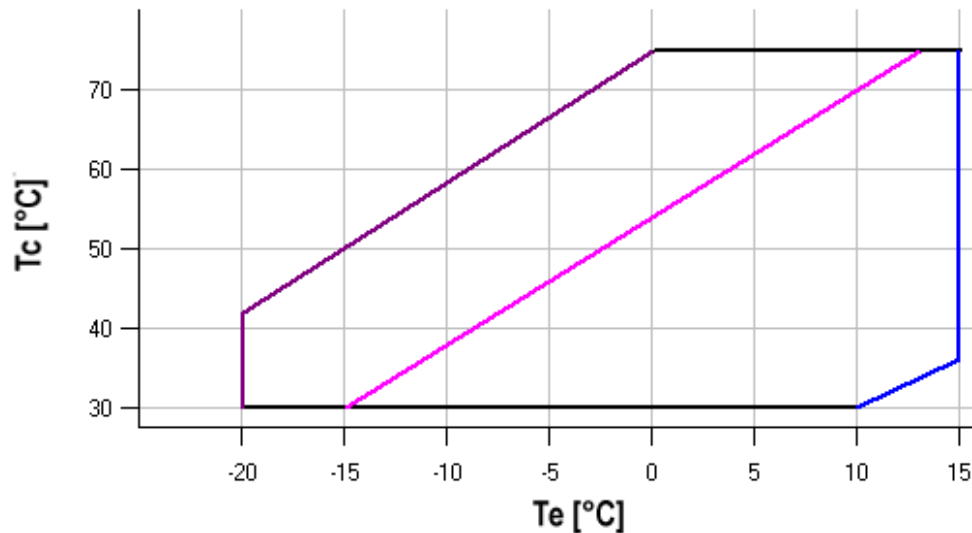
### Model: ZB26KCE-PFJ

Capacity

#### C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	1.78	2.26	2.89	3.67	4.59	5.60	6.62	-
35	1.50	1.91	2.44	3.10	3.89	4.79	5.71	-
40	1.26	1.61	2.06	2.62	3.30	4.07	4.90	5.71
45	-	1.37	1.75	2.22	2.79	3.45	4.17	4.90
50	-	1.16	1.48	1.87	2.35	2.91	3.53	4.17
55	-	-	1.25	1.58	1.97	2.44	2.96	3.51
60	-	-	-	1.32	1.64	2.03	2.46	2.93
65	-	-	-	1.09	1.36	1.67	2.03	2.42
70	-	-	-	-	1.11	1.36	1.65	1.97
75	-	-	-	-	0.90	1.10	1.33	1.59

#### 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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## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

### Model: ZB26KCE-PFJ

R404A/R507

Capacity

#### Cooling capacity [kW]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
10	3.81	4.77	5.92	7.30	-	-	-	-	-
15	3.61	4.54	5.64	6.95	8.50	-	-	-	-
20	3.41	4.29	5.34	6.59	8.06	9.77	-	-	-
25	3.18	4.02	5.02	6.20	7.59	9.22	11.11	-	-
30	2.95	3.74	4.68	5.79	7.11	8.64	10.43	12.48	14.84
35	2.69	3.44	4.32	5.36	6.59	8.03	9.71	11.65	13.88
40	2.42	3.12	3.94	4.91	6.05	7.40	8.97	10.79	12.89
45	2.14	2.78	3.53	4.43	5.48	6.73	8.19	9.89	11.86
50	-	2.42	3.11	3.92	4.89	6.04	7.39	8.96	10.79
55	-	-	2.65	3.39	4.27	5.31	6.54	8.00	9.69
60	-	-	-	2.83	3.61	4.55	5.67	6.99	8.54

#### Power input [kW]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
10	1.54	1.52	1.49	1.47	-	-	-	-	-
15	1.73	1.71	1.68	1.65	1.62	-	-	-	-
20	1.94	1.92	1.89	1.85	1.81	1.77	-	-	-
25	2.18	2.15	2.12	2.08	2.03	1.99	1.93	-	-
30	2.45	2.42	2.38	2.33	2.28	2.23	2.16	2.09	2.01
35	2.76	2.72	2.67	2.62	2.56	2.50	2.42	2.34	2.25
40	3.10	3.06	3.00	2.95	2.88	2.80	2.72	2.63	2.53
45	3.49	3.44	3.38	3.31	3.24	3.15	3.06	2.95	2.84
50	-	3.87	3.80	3.73	3.64	3.54	3.44	3.32	3.19
55	-	-	4.28	4.19	4.09	3.99	3.87	3.73	3.59
60	-	-	-	4.71	4.60	4.48	4.35	4.20	4.04



# R.E.S.L

## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

### Model: ZB26KCE-PFJ

Capacity

#### Current [A]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
10	10.05	10.04	10.03	10.03	-	-	-	-	-
15	10.41	10.41	10.41	10.42	10.42	-	-	-	-
20	10.83	10.85	10.86	10.87	10.87	10.87	-	-	-
25	11.34	11.37	11.39	11.40	11.40	11.40	11.39	-	-
30	11.95	12.00	12.02	12.04	12.04	12.03	12.01	11.99	11.96
35	12.69	12.75	12.78	12.80	12.80	12.78	12.75	12.71	12.66
40	13.58	13.65	13.69	13.71	13.70	13.68	13.63	13.58	13.51
45	14.64	14.72	14.77	14.78	14.77	14.74	14.68	14.60	14.51
50	-	15.98	16.03	16.05	16.03	15.99	15.91	15.82	15.70
55	-	-	17.50	17.52	17.50	17.44	17.35	17.24	17.09
60	-	-	-	19.22	19.19	19.13	19.02	18.88	18.72

#### Mass flow [kg/s]

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
10	74.81	97.01	121.89	150.63	-	-	-	-	-
15	74.93	96.64	121.16	149.68	183.39	-	-	-	-
20	74.54	95.76	119.92	148.22	181.86	222.02	-	-	-
25	73.59	94.31	118.12	146.20	179.76	219.98	268.05	-	-
30	72.01	92.23	115.68	143.54	177.02	217.30	265.57	323.03	390.88
35	69.73	89.46	112.54	140.18	173.58	213.91	262.38	320.18	388.50
40	66.70	85.92	108.64	136.06	169.37	209.76	258.43	316.56	385.35
45	62.83	81.55	103.92	131.11	164.34	204.78	253.64	312.11	381.37
50	-	76.30	98.30	125.27	158.41	198.91	247.96	306.76	376.49
55	-	-	91.72	118.47	151.52	192.07	241.32	300.44	370.64
60	-	-	-	110.64	143.61	184.21	233.64	293.10	363.77

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## Richmonds Earl Shilton Limited

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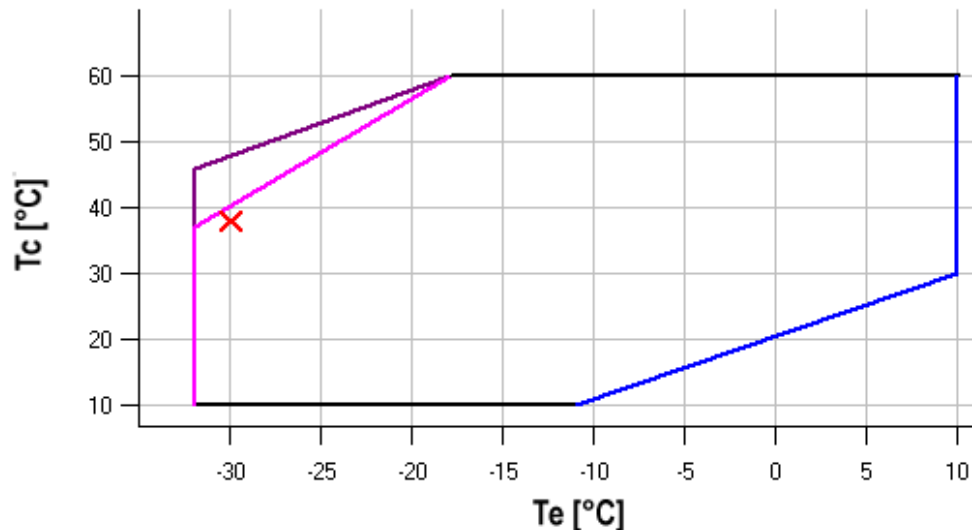
### Model: ZB26KCE-PFJ

**C.O.P. [W/W]**

**Capacity**

$t_c \setminus t_e$	-30	-25	-20	-15	-10	-5	0	5	10
<b>10</b>	2.47	3.14	3.97	4.98	-	-	-	-	-
<b>15</b>	2.09	2.66	3.36	4.22	5.25	-	-	-	-
<b>20</b>	1.75	2.24	2.83	3.56	4.44	5.51	-	-	-
<b>25</b>	1.46	1.87	2.37	2.99	3.73	4.64	5.75	-	-
<b>30</b>	1.20	1.55	1.97	2.48	3.11	3.88	4.82	5.96	7.37
<b>35</b>	0.98	1.27	1.62	2.05	2.57	3.22	4.01	4.97	6.16
<b>40</b>	0.78	1.02	1.31	1.67	2.10	2.64	3.30	4.10	5.10
<b>45</b>	0.61	0.81	1.05	1.34	1.69	2.14	2.68	3.35	4.18
<b>50</b>	-	0.62	0.82	1.05	1.34	1.70	2.15	2.70	3.38
<b>55</b>	-	-	0.62	0.81	1.04	1.33	1.69	2.14	2.70
<b>60</b>	-	-	-	0.60	0.79	1.02	1.30	1.66	2.11

### 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]

# R.E.S.L

## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

**Model: ZB26KCE-PFJ**

Capacity

R407C

### Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
20	4.00	5.04	6.27	7.74	9.46	-	-	-
25	3.79	4.81	6.01	7.43	9.09	11.04	-	-
30	3.58	4.57	5.73	7.10	8.70	10.56	12.72	-
35	3.35	4.31	5.43	6.74	8.27	10.06	12.12	-
40	3.12	4.04	5.11	6.36	7.82	9.51	11.48	-
45	2.88	3.76	4.78	5.96	7.33	8.94	10.80	-
50	-	3.47	4.42	5.53	6.82	8.33	10.08	-
55	-	-	4.05	5.08	6.28	7.68	9.31	-
60	-	-	-	4.60	5.71	7.00	8.51	-
65	-	-	-	-	5.10	6.28	7.67	-

### Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
20	1.38	1.35	1.32	1.29	1.25	-	-	-
25	1.59	1.57	1.55	1.53	1.50	1.46	-	-
30	1.80	1.78	1.77	1.76	1.73	1.70	1.64	-
35	2.02	2.01	2.00	1.99	1.97	1.93	1.88	-
40	2.26	2.25	2.25	2.24	2.22	2.18	2.13	-
45	2.55	2.54	2.53	2.52	2.50	2.46	2.41	-
50	-	2.88	2.87	2.85	2.82	2.78	2.72	-
55	-	-	3.27	3.25	3.21	3.16	3.09	-
60	-	-	-	3.72	3.68	3.61	3.53	-
65	-	-	-	-	4.23	4.15	4.05	-

# R.E.S.L

## Richmonds Earl Shilton Limited

Specialist Distributors of Compressors and Refrigeration Spares

### Model: ZB26KCE-PFJ

Capacity

#### Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
20	6.96	6.81	6.68	6.56	6.41	-	-	-
25	7.86	7.75	7.67	7.58	7.46	7.28	-	-
30	8.73	8.66	8.61	8.54	8.45	8.29	8.04	-
35	9.65	9.61	9.57	9.53	9.44	9.29	9.05	-
40	10.70	10.66	10.64	10.60	10.51	10.36	10.12	-
45	11.92	11.89	11.87	11.82	11.73	11.57	11.31	-
50	-	13.37	13.34	13.28	13.17	12.98	12.69	-
55	-	-	15.11	15.03	14.89	14.67	14.34	-
60	-	-	-	17.14	16.96	16.70	16.33	-
65	-	-	-	-	19.47	19.15	18.72	-

#### Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
20	67.83	86.17	107.85	133.74	164.71	-	-	-
25	66.91	85.37	107.17	133.19	164.29	201.34	-	-
30	65.88	84.40	106.27	132.35	163.52	200.63	244.57	-
35	64.67	83.18	105.05	131.13	162.29	199.41	243.35	-
40	63.19	81.63	103.42	129.43	160.53	197.59	241.46	-
45	61.34	79.64	101.29	127.17	158.14	195.07	238.82	-
50	-	77.14	98.59	124.27	155.04	191.77	235.33	-
55	-	-	95.21	120.63	151.13	187.60	230.90	-
60	-	-	-	116.16	146.34	182.48	225.46	-
65	-	-	-	-	140.56	176.31	218.90	-

# R.E.S.L

**Richmonds Earl Shilton Limited**

**Specialist Distributors of Compressors and Refrigeration Spares**

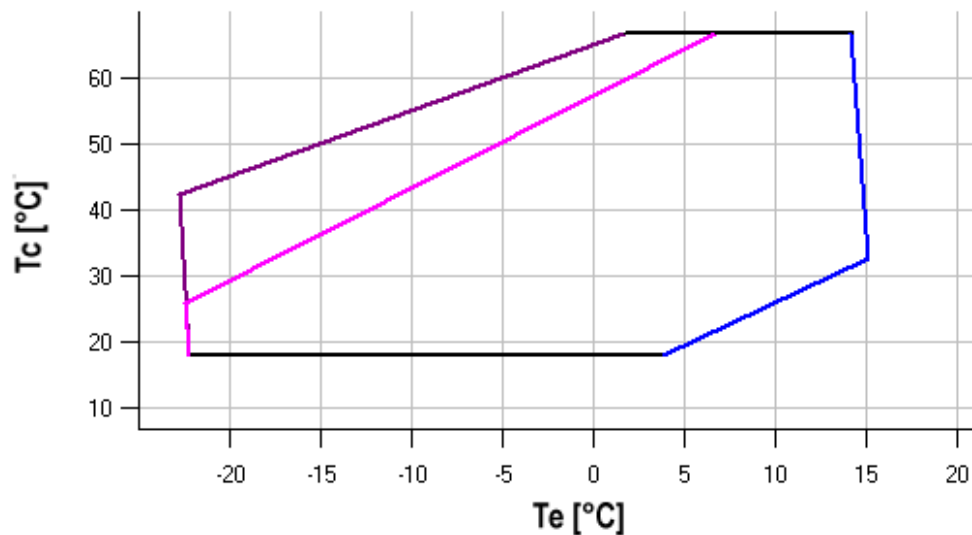
**Model: ZB26KCE-PFJ**




**Capacity**

**C.O.P. [W/W]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
20	2.89	3.73	4.75	6.01	7.58	-	-	-
25	2.38	3.06	3.88	4.86	6.07	7.58	-	-
30	1.99	2.56	3.24	4.04	5.02	6.23	7.76	-
35	1.66	2.15	2.72	3.39	4.20	5.20	6.45	-
40	1.38	1.79	2.28	2.84	3.53	4.36	5.39	-
45	1.13	1.48	1.89	2.36	2.94	3.63	4.49	-
50	-	1.20	1.54	1.94	2.41	2.99	3.71	-
55	-	-	1.24	1.56	1.95	2.43	3.02	-
60	-	-	-	1.24	1.55	1.94	2.41	-
65	-	-	-	-	1.21	1.51	1.89	-

**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]

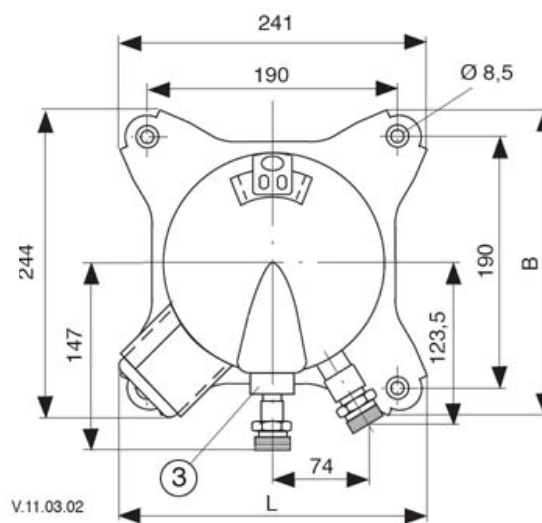
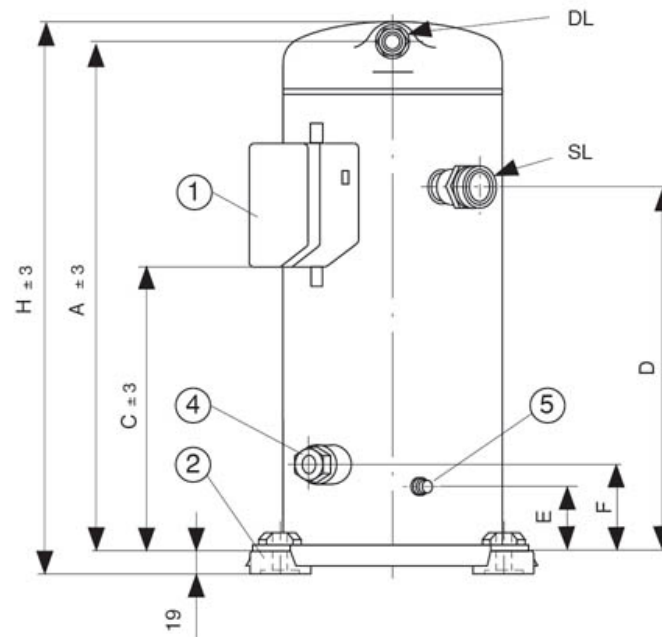
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**Specialist Distributors of Compressors and Refrigeration Spares**

## Model: ZB26KCE-PFJ

### 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

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**Specialist Distributors of Compressors and Refrigeration Spares**

**Model: ZB26KCE-PFJ**

**Image**

