

# Model: ZP154KCE-TFD

## Data

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**Type:** Hermetic scroll compressors

**Producer:** Copeland

**Series:** ZP

## Model: ZP154KCE-TFD

### Technical data

Displacement [m <sup>3</sup> /h]:	24,9
Sound power [dBA]:	76
Sound pressure level [dB]:	65
Net Weight [kg]:	64,9
Gross Weight [kg]:	75
Oil charge [dm <sup>3</sup> ]:	3,3
Maximum high pressure [bar]:	45
Maximum standstill pressure [bar]:	29,5
Minimal lowside temperature [°C]:	-35
Maximum lowside temperature [°C]:	50
PED category:	2

### Electrical data

Power supply [V/~/Hz]:	380-420V/3/50Hz
Locked rotor current [A]:	140,0
Max. operating current [A]:	31,0
Winding resistance [Ω]:	1,1

### Connections

	<u>inches</u>
Suction connection with supplied sleeve:	1 3/8"
Discharge connection with supplied sleeve:	7/8"

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## Capacity

R410A

### Cooling capacity [kW]

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>	<b>-5</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>
<b>25</b>	14.40	17.71	21.62	26.21	31.54	37.72	44.80	52.88	62.04	72.35
<b>30</b>	13.48	16.76	20.61	25.09	30.29	36.28	43.16	50.99	59.86	69.85
<b>35</b>	12.50	15.72	19.45	23.79	28.80	34.58	41.20	48.75	57.29	66.92
<b>40</b>	-	14.57	18.16	22.30	27.10	32.62	38.95	46.16	54.34	63.56
<b>45</b>	-	-	16.72	20.64	25.18	30.40	36.39	43.23	51.00	59.78
<b>50</b>	-	-	-	18.81	23.03	27.91	33.52	39.95	47.27	55.56
<b>55</b>	-	-	-	-	20.68	25.17	30.36	36.33	43.16	50.93
<b>60</b>	-	-	-	-	18.11	22.18	26.91	32.38	38.68	45.87
<b>65</b>	-	-	-	-	-	18.93	23.16	28.09	33.81	40.40

### Power input [kW]

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>	<b>-5</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>
<b>25</b>	5.68	5.76	5.82	5.89	6.01	6.21	6.52	6.98	7.62	8.46
<b>30</b>	6.34	6.44	6.50	6.55	6.62	6.75	6.98	7.32	7.82	8.50
<b>35</b>	7.04	7.18	7.26	7.31	7.35	7.43	7.58	7.82	8.20	8.74
<b>40</b>	-	8.00	8.12	8.17	8.21	8.25	8.34	8.50	8.77	9.17
<b>45</b>	-	-	9.06	9.15	9.19	9.21	9.25	9.35	9.53	9.82
<b>50</b>	-	-	-	10.24	10.30	10.32	10.34	10.38	10.49	10.68
<b>55</b>	-	-	-	-	11.55	11.58	11.59	11.60	11.65	11.77
<b>60</b>	-	-	-	-	12.94	13.01	13.02	13.01	13.02	13.07
<b>65</b>	-	-	-	-	-	14.59	14.63	14.62	14.61	14.61

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### Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	12.60	12.69	12.75	12.83	12.98	13.23	13.63	14.23	15.08	16.22
30	13.39	13.53	13.60	13.66	13.75	13.92	14.21	14.66	15.33	16.26
35	14.28	14.48	14.58	14.64	14.70	14.81	15.00	15.33	15.84	16.57
40	-	15.56	15.72	15.80	15.85	15.91	16.03	16.25	16.62	17.19
45	-	-	17.04	17.16	17.21	17.25	17.31	17.45	17.70	18.12
50	-	-	-	18.73	18.81	18.85	18.88	18.94	19.10	19.38
55	-	-	-	-	20.67	20.72	20.74	20.76	20.83	21.01
60	-	-	-	-	22.81	22.90	22.92	22.91	22.93	23.01
65	-	-	-	-	-	25.39	25.43	25.42	25.40	25.42

### Mass flow [kg/h]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	282.42	346.58	419.66	503.26	598.94	708.29	832.88	974.29	1	1
									134.10	313.89
30	280.83	345.97	420.17	505.01	602.06	712.90	839.12	982.28	1	1
									143.97	325.77
35	276.63	342.36	417.27	502.95	600.97	712.91	840.34	984.86	1	1
									148.02	331.42
40	-	335.75	410.98	497.09	595.68	708.31	836.56	982.02	1	1
									146.26	330.86
45	-	-	401.31	487.46	586.20	699.13	827.80	973.80	1	1
									138.71	324.11
50	-	-	-	474.06	572.56	685.37	814.06	960.21	1	1
									125.39	311.18
55	-	-	-	-	554.77	667.07	795.37	941.25	1	1
									106.30	292.09
60	-	-	-	-	532.84	644.22	771.74	916.96	1	1
									081.47	266.85
65	-	-	-	-	-	616.86	743.18	887.34	1	1
									050.91	235.48

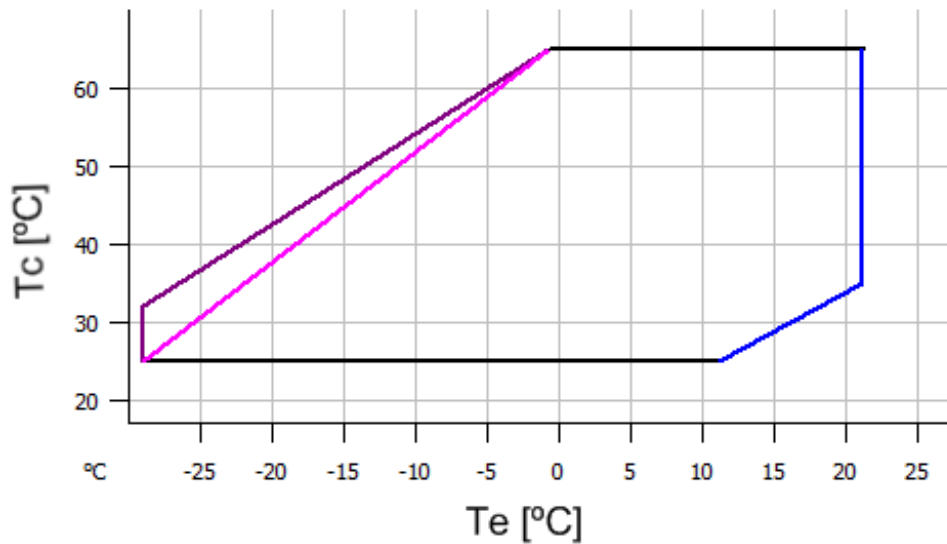
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## Capacity

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

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15	20
25	2.53	3.08	3.72	4.45	5.25	6.07	6.87	7.58	8.14	8.55
30	2.13	2.60	3.17	3.83	4.57	5.37	6.19	6.97	7.66	8.22
35	1.78	2.19	2.68	3.25	3.92	4.65	5.44	6.23	6.99	7.66
40	-	1.82	2.24	2.73	3.30	3.95	4.67	5.43	6.20	6.93
45	-	-	1.85	2.26	2.74	3.30	3.93	4.62	5.35	6.09
50	-	-	-	1.84	2.24	2.70	3.24	3.85	4.51	5.20
55	-	-	-	-	1.79	2.17	2.62	3.13	3.71	4.33
60	-	-	-	-	1.40	1.71	2.07	2.49	2.97	3.51
65	-	-	-	-	-	1.30	1.58	1.92	2.31	2.76

### Application range



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

Operating conditions: 10K suction superheat, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

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## Dimensions

