



Producer: **Copeland**

Line: **ZR**

Model: **ZR61KCE-TFD**

Cooling capacity [kW]: **6.73**

Heat rejection [kW]: **10.07**

Displacement [m<sup>3</sup>/h]: **14.3**

Refrigerant: **R22, R134a, R407C**

Capacity control: **None**

Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	14.3
Oil charge	[l]	1.66
Oil type		POE RL32-3MAF
Internal free volume	[dm <sup>3</sup> ]	4.1
Net weight	[kg]	39.50

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	11.0
Locked rotor amperage	[A]	65.5
Motor resistance main	[Ω]	2.75
Maximum suction pressure	[bar]	20.0
Maximum discharge pressure	[bar]	29.5
Maximum suction temperature	[°C]	50.0

### Dimensions

Suction tube diameter	[inch]	7/8
Discharge tube diameter	[inch]	1/2
Length	[mm]	246
Height	[mm]	451
Width	[mm]	246

### Other

Approved refrigerants	R22, R134a, R407C
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None
Protection rating	IP21 (IEC34)

## Performance

Nominal conditions: refrigerant: R407C, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

### Cooling capacity

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	4.87	6.39	8.18	10.30	12.78	15.65	16.92	18.97	20.80	22.75
	35	4.53	6.00	7.74	9.78	12.17	14.95	16.17	18.14	19.91	21.80
	40	4.17	5.58	7.25	9.21	11.50	14.17	15.35	17.24	18.94	20.76
	45		5.15	<b>6.73</b>	8.60	10.79	13.33	14.45	16.26	17.89	19.63
	50			6.20	7.96	10.03	12.43	13.50	15.22	16.77	18.43
	55				7.30	9.23	11.50	12.50	14.13	15.59	17.17
	60					8.41	10.52	11.46	12.99	14.36	15.84
	65					7.58	9.52	10.39	11.81	13.09	14.47
	67						9.12	9.96	11.32	12.57	13.91

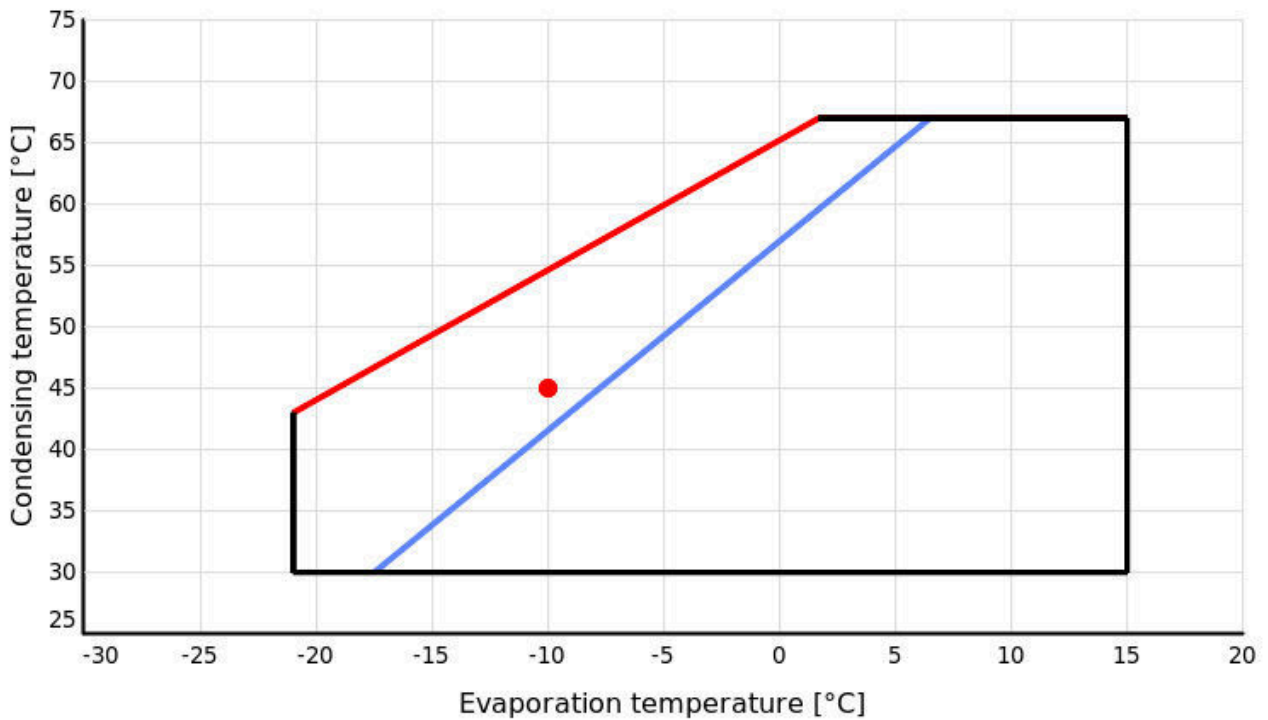
### Heat rejection

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	7.19	8.73	10.53	12.66	15.17	18.10	19.41	21.51	23.42	25.46
	35	7.12	8.63	10.39	12.45	14.86	17.67	18.92	20.94	22.76	24.72
	40	7.05	8.53	10.24	12.22	14.52	17.21	18.41	20.34	22.08	23.95
	45		8.43	<b>10.07</b>	11.97	14.18	16.74	17.88	19.71	21.37	23.15
	50			9.92	11.73	13.83	16.25	17.33	19.07	20.64	22.33
	55				11.50	13.48	15.77	16.79	18.43	19.91	21.50
	60					13.14	15.29	16.25	17.79	19.18	20.67
	65					12.83	14.84	15.72	17.16	18.46	19.85
	67						14.66	15.52	16.91	18.17	19.53

**Power consumption**

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	2.44	2.46	2.48	2.49	2.52	2.58	2.61	2.68	2.76	2.85
	35	2.73	2.77	2.80	2.81	2.83	2.87	2.89	2.95	3.00	3.08
	40	3.03	3.10	3.14	3.16	3.18	3.21	3.22	3.26	3.30	3.36
	45		3.45	<b>3.52</b>	3.55	3.57	3.59	3.60	3.63	3.66	3.70
	50			3.92	3.97	4.00	4.02	4.03	4.05	4.07	4.10
	55				4.42	4.47	4.50	4.51	4.53	4.54	4.56
	60					4.98	5.02	5.04	5.05	5.07	5.09
	65					5.53	5.60	5.61	5.64	5.65	5.67
	67						5.84	5.86	5.88	5.90	5.92

**Application range**



**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 25°C

