



Producer: **Copeland**

Line: **ZR**

Model: **ZR61KCE-TFD**

Cooling capacity [kW]: **7.43**

Heat rejection [kW]: **10.72**

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: R22, 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
Condensation temperature [°C]	27	5.70	7.28	9.17	11.33	13.73	16.34	17.44	19.14	20.60
	30	5.54	7.09	8.94	11.07	13.44	16.03	17.12	18.80	20.25
	35	5.22	6.70	8.49	10.55	12.87	15.40	16.47	18.13	19.55
	40	4.86	6.26	7.97	9.96	12.21	14.68	15.73	17.35	18.75
	45		5.80	<b>7.43</b>	9.34	11.50	13.90	14.92	16.50	17.87
	50			6.89	8.70	10.78	13.09	14.07	15.61	16.94
	55			6.39	8.10	10.07	12.28	13.23	14.71	16.00
	60				7.56	9.42	11.52	12.42	13.84	15.08
	65					8.84	10.82	11.68	13.03	14.21

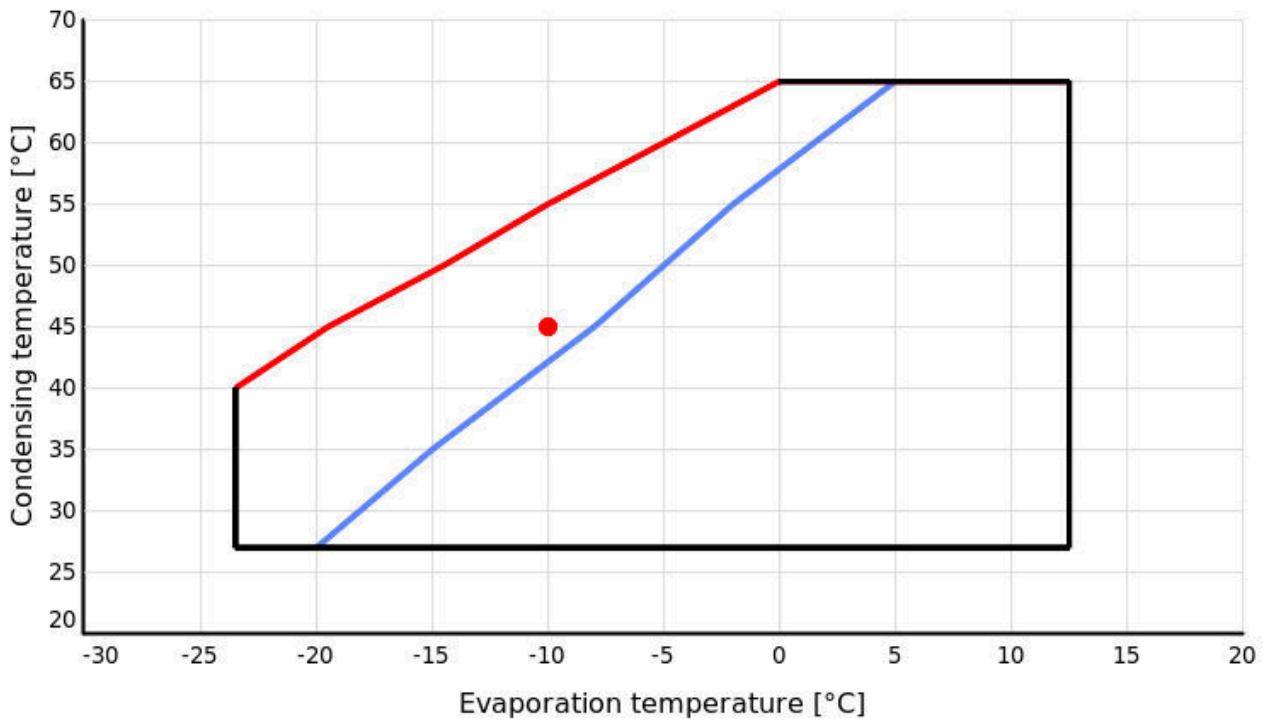
### Heat rejection

		Evaporation temperature [°C]								
		-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	27	7.84	9.48	11.39	13.58	16.02	18.72	19.86	21.64	23.19
	30	7.84	9.44	11.33	13.48	15.90	18.57	19.71	21.48	23.01
	35	7.79	9.32	11.15	13.25	15.61	18.23	19.34	21.09	22.61
	40	7.74	9.18	10.93	12.96	15.25	17.80	18.90	20.61	22.10
	45		9.07	<b>10.72</b>	12.66	14.87	17.34	18.41	20.07	21.53
	50			10.58	12.41	14.52	16.90	17.92	19.53	20.95
	55			10.54	12.25	14.24	16.51	17.49	19.04	20.40
	60				12.23	14.08	16.22	17.15	18.63	19.94
	65					14.10	16.08	16.96	18.36	19.59

**Power consumption**

Condensation temperature [°C]	Evaporation temperature [°C]								
	-20	-15	-10	-5	0	5	7	10	12.5
27	2.26	2.31	2.34	2.37	2.42	2.50	2.55	2.63	2.73
30	2.42	2.47	2.51	2.54	2.59	2.68	2.73	2.82	2.91
35	2.70	2.76	2.80	2.84	2.89	2.98	3.03	3.12	3.22
40	3.03	3.08	3.12	3.15	3.20	3.29	3.34	3.43	3.53
45		3.45	<b>3.47</b>	3.50	3.55	3.63	3.67	3.76	3.86
50			3.89	3.90	3.94	4.01	4.05	4.13	4.22
55			4.37	4.37	4.39	4.44	4.48	4.55	4.64
60				4.92	4.91	4.95	4.98	5.04	5.11
65					5.53	5.54	5.56	5.61	5.67

**Application range**



**Legend**

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

**Dimensions**

