



Producer: **Copeland**

Line: **ZR**

Model: **ZR72KCE-TFD**

Cooling capacity [kW]: **8.29**

Heat rejection [kW]: **12.18**

Displacement [m<sup>3</sup>/h]: **17.1**

Refrigerant: **R22, R134a, R407C**

Capacity control: **None**

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	17.1
Oil charge	[l]	1.77
Oil type		POE RL32-3MAF
Internal free volume	[dm <sup>3</sup> ]	4.1
Net weight	[kg]	38.60
Gross weight	[kg]	44.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	13.0
Locked rotor amperage	[A]	74.0
Motor resistance main	[Ω]	2.27
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
Suction connection thread diameter	[inch]	1 1/4
Discharge connection thread diameter	[inch]	1
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	6.39	8.22	10.34	12.79	15.63	18.89	20.33	22.63	24.70	26.90
	35	5.85	7.62	9.66	12.02	14.74	17.87	19.24	21.45	23.43	25.54
	40	5.30	7.02	8.98	11.24	13.84	16.83	18.15	20.27	22.16	24.18
	45		6.40	<b>8.29</b>	10.45	12.94	15.80	17.06	19.08	20.89	22.82
	50			7.59	9.66	12.03	14.76	15.96	17.88	19.61	21.45
	55				8.86	11.12	13.71	14.85	16.69	18.33	20.08
	60					10.20	12.66	13.75	15.48	17.04	18.71
	65					9.28	11.61	12.63	14.28	15.76	17.34
	67						11.18	12.19	13.79	15.24	16.79

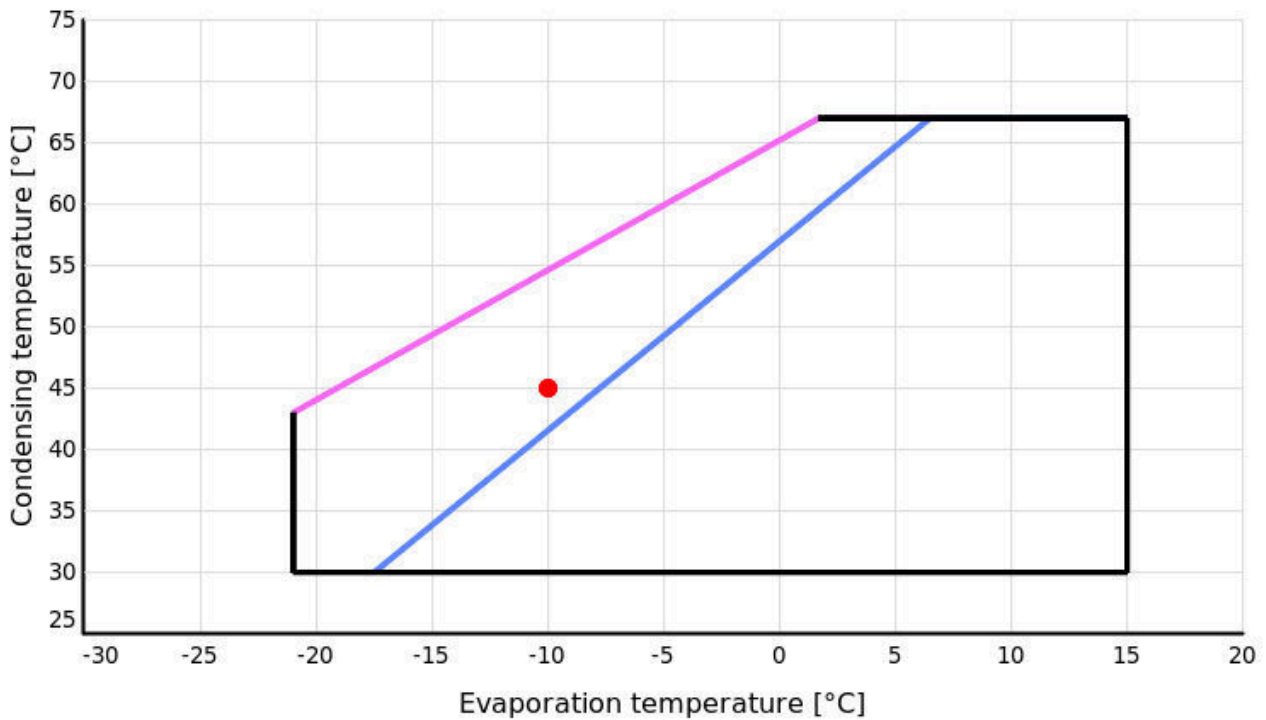
### Heat rejection

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	9.07	10.94	13.08	15.55	18.40	21.70	23.15	25.49	27.59	29.84
	35	8.86	10.68	12.75	15.12	17.85	21.00	22.39	24.62	26.62	28.76
	40	8.67	10.45	12.45	14.73	17.34	20.34	21.67	23.79	25.70	27.74
	45		10.25	<b>12.18</b>	14.37	16.87	19.74	21.00	23.02	24.84	26.78
	50			11.95	14.06	16.45	19.18	20.38	22.31	24.04	25.89
	55				13.78	16.08	18.68	19.82	21.65	23.30	25.05
	60					15.75	18.23	19.32	21.06	22.62	24.29
	65					15.47	17.84	18.88	20.53	22.01	23.59
	67						17.70	18.72	20.34	21.78	23.33

**Power consumption**

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	2.82	2.86	2.89	2.90	2.92	2.96	2.97	3.01	3.05	3.10
	35	3.17	3.22	3.25	3.27	3.28	3.30	3.31	3.33	3.36	3.39
	40	3.55	3.62	3.66	3.68	3.68	3.69	3.70	3.71	3.73	3.75
	45		4.05	<b>4.10</b>	4.13	4.14	4.15	4.15	4.15	4.16	4.17
	50			4.59	4.63	4.65	4.66	4.66	4.66	4.66	4.67
	55				5.18	5.22	5.23	5.23	5.23	5.23	5.23
	60					5.84	5.86	5.87	5.87	5.87	5.87
	65					6.52	6.56	6.57	6.58	6.58	6.58
	67						6.86	6.87	6.89	6.89	6.89

**Application range**



**Legend**

- Suction gas superheating: 10 K, ASERCOM certified
- Suction gas temperature: 25°C

**Dimensions**

