



Producer: **Copeland**

Line: **ZB**

Model: **ZB45KCE-TFD**

Cooling capacity [kW]: **9.32**

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

Refrigerant: **R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R513A**

Capacity control: **None**

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	17.1
Oil charge	[l]	1.90
Oil type		POE RL32-3MAF
Internal free volume	[dm <sup>3</sup> ]	5.9
Net weight	[kg]	39.10

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	13.1
Locked rotor amperage	[A]	74.0
Motor resistance main	[Ω]	2.27
Maximum suction pressure	[bar]	21.0
Maximum discharge pressure	[bar]	32.0
Maximum suction temperature	[°C]	50.0
Minimum suction temperature	[°C]	-35.0

### Dimensions

Suction connection thread diameter	[inch]	1 1/4
Discharge connection thread diameter	[inch]	1
Length	[mm]	242
Height	[mm]	438
Width	[mm]	242

### Other

Approved refrigerants	R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R513A
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None
Protection rating	IP21 (IEC34)

## Performance

Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

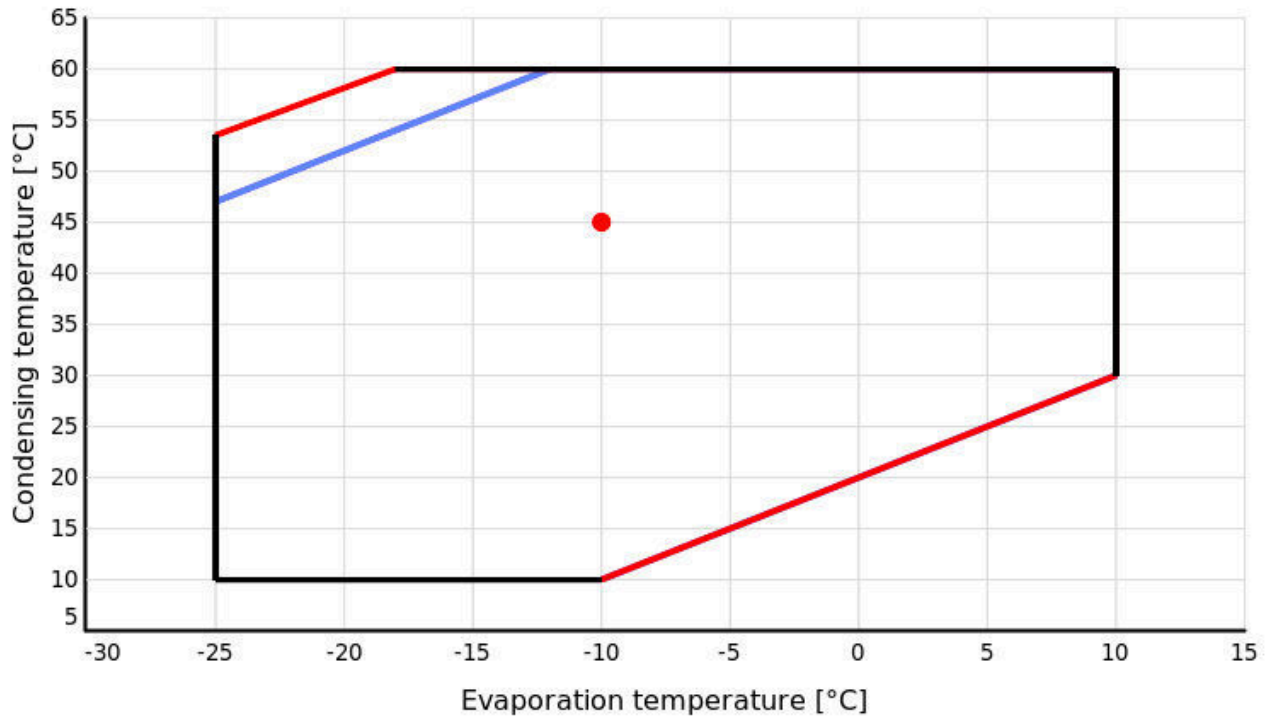
### Cooling capacity

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	8.44	10.53	13.00	15.88					
	15	7.94	9.92	12.26	14.98	18.12				
	20	7.43	9.30	11.50	14.07	17.05	20.45			
	25	6.91	8.66	10.73	13.15	15.96	19.18	22.84		
	30	6.38	8.02	9.95	12.22	14.85	17.89	21.36	22.87	25.27
	35	5.84	7.36	9.15	11.26	13.73	16.58	19.85	21.29	23.57
	40	5.30	6.69	8.34	10.30	12.59	15.26	18.33	19.69	21.85
	45	4.74	6.01	7.52	<b>9.32</b>	11.44	13.92	16.80	18.07	20.11
	50	4.17	5.32	6.69	8.33	10.27	12.56	15.24	16.43	18.35
	55		4.62	5.84	7.32	9.08	11.18	13.66	14.77	16.57
60			4.99	6.30	7.88	9.79	12.07	13.10	14.78	

### Power consumption

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	2.10	2.08	2.06	2.04					
	15	2.39	2.37	2.35	2.33	2.31				
	20	2.70	2.69	2.68	2.66	2.63	2.60			
	25	3.05	3.05	3.03	3.01	2.98	2.96	2.93		
	30	3.44	3.43	3.42	3.40	3.38	3.35	3.31	3.30	3.28
	35	3.85	3.86	3.85	3.83	3.81	3.77	3.74	3.72	3.70
	40	4.30	4.32	4.31	4.30	4.28	4.24	4.21	4.19	4.16
	45	4.79	4.81	4.82	<b>4.81</b>	4.79	4.76	4.72	4.70	4.67
	50	5.32	5.35	5.36	5.36	5.34	5.31	5.28	5.26	5.23
	55		5.93	5.95	5.95	5.94	5.92	5.88	5.86	5.84
60			6.58	6.60	6.59	6.57	6.53	6.52	6.49	

**Application range**



**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 25°C
- Suction gas temperature: 20°C, ASERCOM certified

## Dimensions

### Dimensions

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Dimension A	[mm]	437,7
Dimension B	[mm]	409,6
Dimension E	[mm]	79,5
Dimension G	[mm]	47,5