



Producer: [Copeland](#)

Line: **ZB**

Model: [ZB50KCE-TFD](#)

Cooling capacity [kW]: **11.03**

Displacement [m³/h]: **19.8**

Refrigerant: **R22, R134a, R404A, R448A, R449A, R450A, R513A**

Capacity control: **None**

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

Data

Technical data

Displacement	[m ³ /h]	19.8
Oil charge	[l]	2.65
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	10.5
Net weight	[kg]	59.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	14.6
Locked rotor amperage	[A]	100.0
Motor resistance main	[Ω]	1.75
Maximum suction pressure	[bar]	22.6
Maximum discharge pressure	[bar]	32.0
Maximum suction temperature	[°C]	50.0
Minimum suction temperature	[°C]	-35.0

Dimensions

Suction tube diameter	[inch]	1 1/8
Discharge tube diameter	[inch]	7/8
Length	[mm]	263
Height	[mm]	480
Width	[mm]	284

Other

Approved refrigerants	R22, R134a, R404A, 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

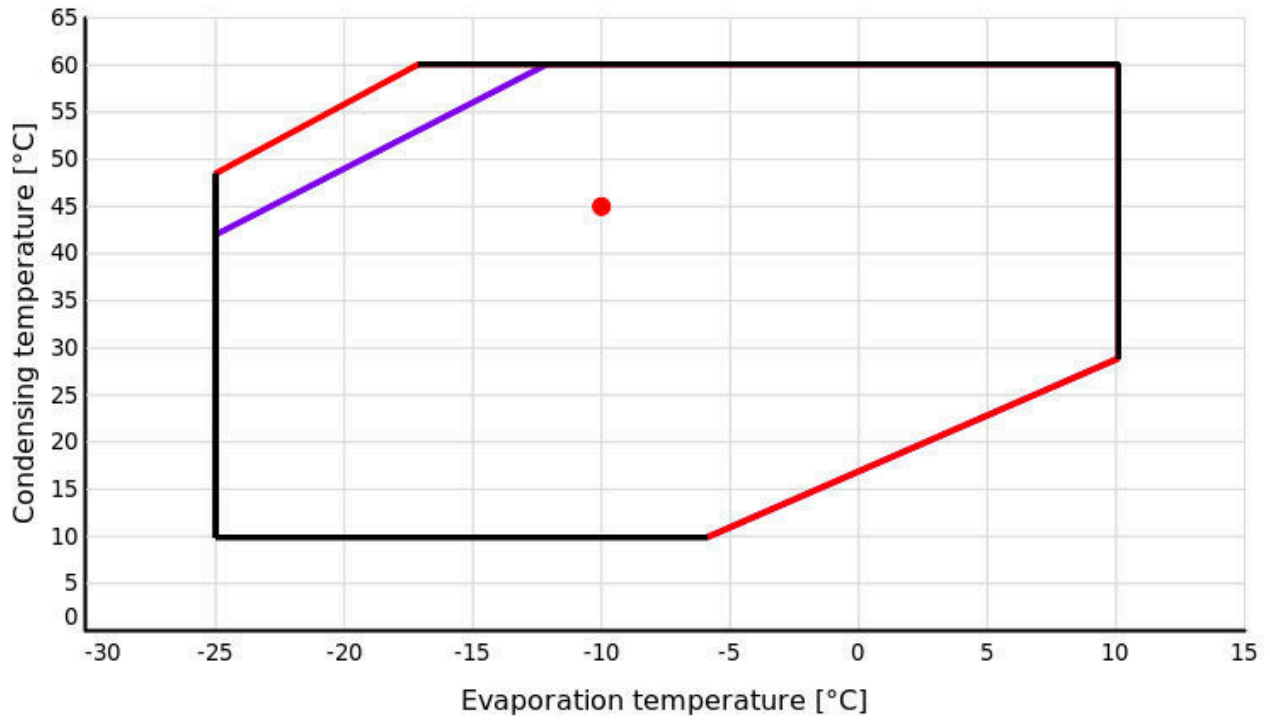
Cooling capacity

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	9.9	9.69	11.96	14.66	17.87					
	10	9.68	11.95	14.65	17.85					
	15	9.17	11.41	14.02	17.10	20.71				
	20	8.56	10.78	13.32	16.28	19.72	23.73			
	25	7.86	10.07	12.55	15.38	18.66	22.47	26.86		
	30	7.06	9.27	11.69	14.42	17.54	21.14	25.29	27.13	30.07
	35	6.14	8.37	10.75	13.37	16.35	19.75	23.67	25.39	28.17
	40	5.11	7.37	9.71	12.25	15.08	18.29	21.97	23.60	26.21
	45	3.97	6.27	8.58	11.03	13.72	16.76	20.22	21.74	24.19
	50		5.05	7.34	9.72	12.28	15.14	18.39	19.81	22.11
	55		3.73	6.00	8.30	10.75	13.44	16.48	17.81	19.96
	60			4.56	6.79	9.12	11.64	14.48	15.73	17.74
60.1			4.53	6.76	9.08	11.61	14.44	15.68	17.69	

Power consumption

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	9.9	2.58	2.61	2.64	2.67					
	10	2.58	2.62	2.65	2.68					
	15	2.87	2.91	2.94	2.97	2.99				
	20	3.20	3.24	3.27	3.29	3.31	3.33			
	25	3.58	3.61	3.64	3.66	3.67	3.68	3.69		
	30	4.03	4.04	4.06	4.07	4.08	4.08	4.08	4.08	4.08
	35	4.55	4.55	4.55	4.54	4.54	4.53	4.52	4.52	4.51
	40	5.15	5.13	5.11	5.09	5.07	5.05	5.02	5.01	5.00
	45	5.84	5.80	5.76	5.72	5.68	5.64	5.59	5.58	5.55
	50		6.58	6.51	6.44	6.38	6.31	6.25	6.22	6.18
	55		7.46	7.37	7.27	7.18	7.09	7.00	6.96	6.91
	60			8.34	8.22	8.09	7.97	7.85	7.80	7.73
60.1			8.36	8.24	8.11	7.99	7.87	7.82	7.75	

Application range



Legend

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

Dimensions

