



Producer: [Copeland](#)

Line: [ZBD](#)

Model: [ZBD30KCE-TFD](#)

Cooling capacity [kW]: **6.48**

Displacement [m³/h]: **11.7**

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

Capacity control: **Digital**

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

Data

Technical data

Displacement	[m ³ /h]	11.7
Oil charge	[l]	1.89
Oil type		POE RL32-3MAF
Net weight	[kg]	36.70

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	7.9
Locked rotor amperage	[A]	51.5
Motor resistance main	[Ω]	3.64
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 connection thread diameter	[inch]	1 1/4
Discharge connection thread diameter	[inch]	1
Length	[mm]	241
Height	[mm]	481
Width	[mm]	246

Other

Approved refrigerants	R22, R134a, R404A, R407A, R407F, R448A, R449A, R450A, R513A
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	Digital
Protection rating	IP21 (IEC34)

Performance

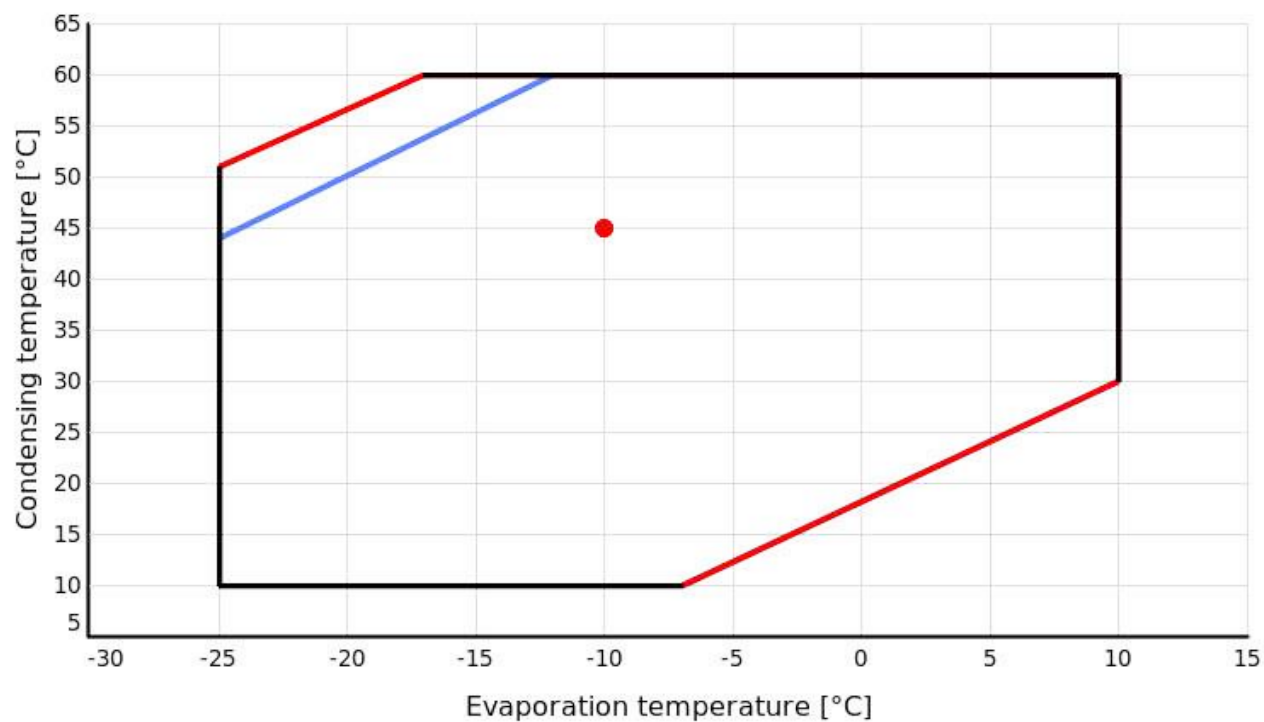
Nominal conditions: refrigerant: R404A , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

Cooling capacity [kW]

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	5.87	7.07	8.51	10.20					
	15	5.51	6.70	8.11	9.78	11.70				
	20	5.15	6.31	7.69	9.32	11.19	13.34			
	25	4.79	5.91	7.25	8.82	10.63	12.71	15.06		
	30	4.43	5.50	6.78	8.28	10.02	12.02	14.28	15.26	16.81
	35	4.07	5.08	6.29	7.71	9.37	11.27	13.43	14.38	15.87
	40	3.71	4.65	5.78	7.11	8.67	10.46	12.52	13.42	14.84
	45	3.36	4.22	5.25	6.48	7.92	9.60	11.53	12.38	13.74
	50	3.01	3.77	4.70	5.81	7.14	8.68	10.48	11.28	12.55
	55		3.32	4.13	5.12	6.30	7.71	9.36	10.10	11.29
	60			3.55	4.39	5.43	6.68	8.18	8.85	9.94

Power consumption [kW]

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	1.55	1.65	1.76	1.89					
	15	1.65	1.75	1.85	1.97	2.12				
	20	1.77	1.88	1.97	2.08	2.21	2.38			
	25	1.92	2.03	2.13	2.23	2.34	2.49	2.69		
	30	2.08	2.21	2.32	2.41	2.51	2.64	2.82	2.90	3.05
	35	2.27	2.42	2.53	2.63	2.72	2.84	2.99	3.06	3.19
	40	2.48	2.65	2.77	2.87	2.96	3.07	3.20	3.26	3.38
	45	2.70	2.89	3.03	3.14	3.24	3.34	3.45	3.51	3.60
	50	2.94	3.16	3.32	3.44	3.54	3.64	3.74	3.79	3.87
	55		3.44	3.62	3.76	3.87	3.97	4.07	4.11	4.18
	60			3.95	4.11	4.23	4.33	4.42	4.46	4.53

Application range**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 25°C
- Current operating conditions

Dimensions

