



Producer: **Copeland**
 Line: **ZRD**
 Model: **ZRD81KCE-TFD**
 Cooling capacity [kW]: **10.22**
 Displacement [m³/h]: **18.8**
 Refrigerant: **R407C**
 Capacity control: **Digital**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	18.8
Oil charge	[l]	1.89
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	5.9
Net weight	[kg]	40.8
Gross weight	[kg]	44

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	15.0
Locked rotor amperage	[A]	100.0
Motor resistance main	[Ω]	1.79
Maximum suction pressure	[bar]	20.0
Maximum discharge pressure	[bar]	29.5

Dimensions

Suction tube diameter	[inch]	7/8
Discharge tube diameter	[inch]	3/4
Length	[mm]	246
Height	[mm]	494
Width	[mm]	246

Other

Approved refrigerants	R407C
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	Digital
Protection rating	IP21 (IEC34)



Performance

Nominal conditions: refrigerant: R407C , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

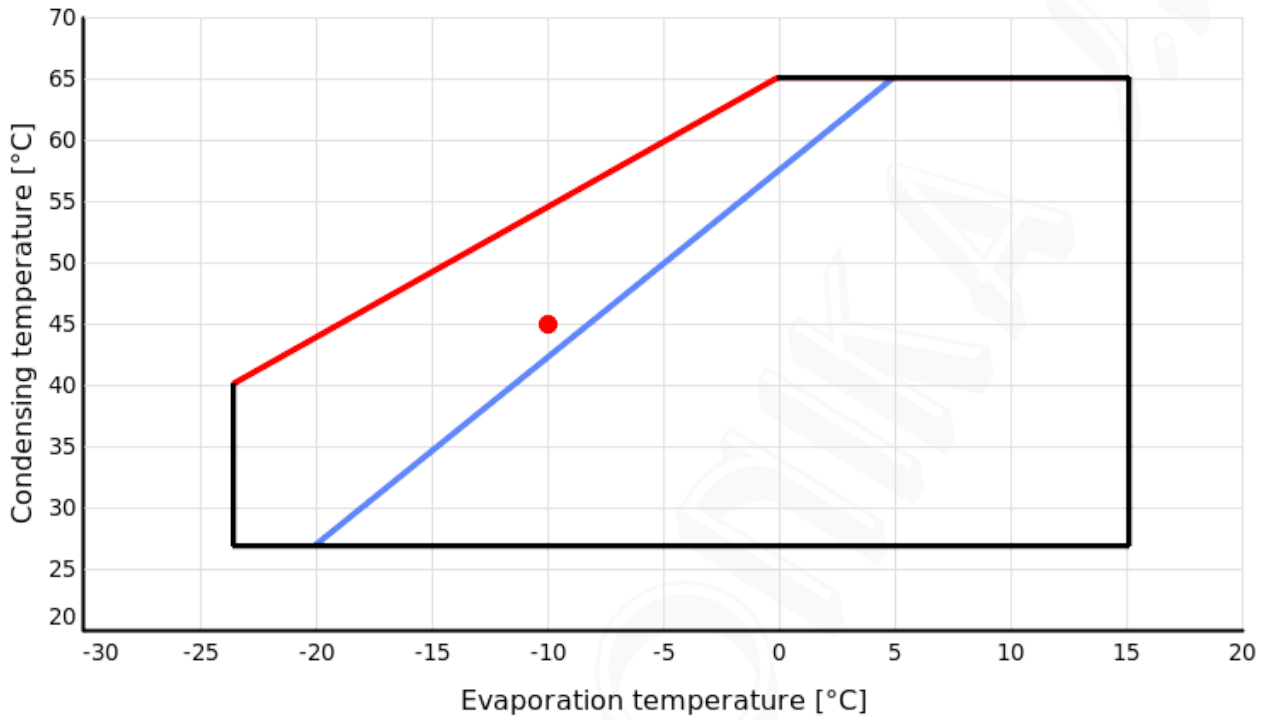
Cooling capacity [kW]

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	26.9	8.12	10.35	12.95	15.99	19.54	23.66	25.48	28.41	31.05	33.87
	30	7.78	9.97	12.52	15.48	18.93	22.93	24.70	27.55	30.11	32.85
	35	7.20	9.33	11.79	14.63	17.92	21.74	23.42	26.14	28.58	31.19
	40	6.59	8.66	11.02	13.74	16.88	20.51	22.12	24.69	27.01	29.49
	45		7.94	10.22	12.82	15.81	19.25	20.77	23.22	25.41	27.76
	50			9.36	11.85	14.69	17.95	19.39	21.70	23.77	26.00
	55				10.83	13.52	16.60	17.95	20.13	22.09	24.18
	60					12.29	15.19	16.47	18.51	20.35	22.31
	65					11.01	13.73	14.92	16.83	18.54	20.38
	65.1					10.99	13.70	14.88	16.79	18.51	20.34




Power consumption [kW]

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	26.9	3.45	3.49	3.53	3.59	3.65	3.73	3.77	3.83	3.88	3.94
	30	3.68	3.72	3.76	3.82	3.89	3.98	4.02	4.09	4.15	4.21
	35	4.09	4.11	4.16	4.22	4.29	4.39	4.43	4.50	4.57	4.64
	40	4.55	4.57	4.60	4.66	4.73	4.82	4.87	4.94	5.01	5.08
	45		5.10	5.12	5.16	5.22	5.30	5.34	5.42	5.48	5.56
	50			5.73	5.74	5.78	5.85	5.89	5.95	6.01	6.08
	55				6.43	6.44	6.49	6.52	6.57	6.62	6.68
	60					7.22	7.24	7.25	7.29	7.33	7.38
	65					8.14	8.11	8.12	8.13	8.15	8.19
	65.1					8.16	8.13	8.13	8.15	8.17	8.21

Application range



Legend

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

Dimensions

