



Producer: **Copeland**
 Line: **ZP**
 Model: **ZP90KCE-TFD**
 Cooling capacity [kW]: **11.87**
 Displacement [m³/h]: **14.6**
 Refrigerant: **R410A**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	14.6
Oil charge	[l]	2.51
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	10.5
Net weight	[kg]	58.10
Gross weight	[kg]	67.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	16.0
Locked rotor amperage	[A]	95.0
Motor resistance main	[Ω]	1.59
Maximum suction pressure	[bar]	29.5
Maximum discharge pressure	[bar]	45.0
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]	281
Height	[mm]	476
Width	[mm]	285

Other

Approved refrigerants	R410A
Allowed oil types	POE RL32-3MAF
Capacity control	None
Protection rating	IP21 (IEC34)

Performance

Nominal conditions: refrigerant: R410A , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

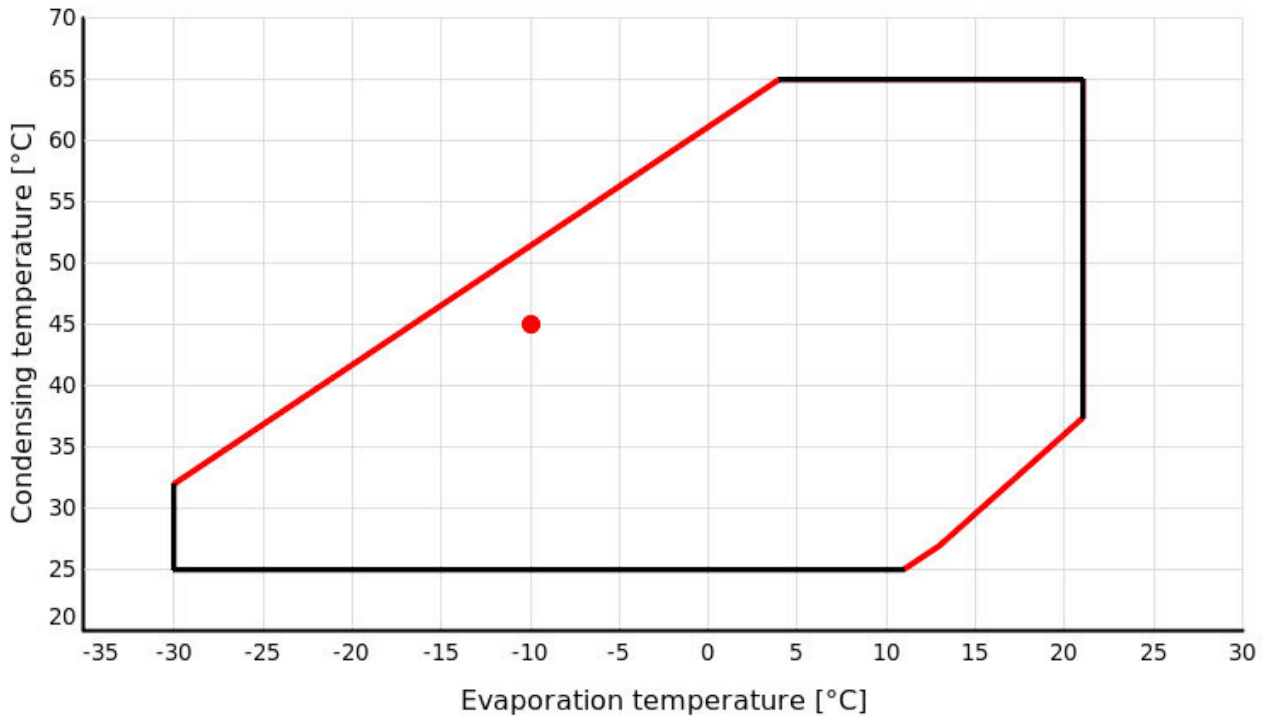
Cooling capacity [kW]

		Evaporation temperature [°C]												
		-30	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20
Condensation temperature [°C]	25	6.68	8.26	10.21	12.54	15.30	18.50	22.19	26.40	28.23	31.14			
	30	6.21	7.74	9.60	11.84	14.47	17.53	21.05	25.05	26.80	29.57	32.04	34.64	
	35		7.22	9.00	11.14	13.65	16.56	19.91	23.72	25.38	28.02	30.37	32.85	
	40			8.37	10.41	12.80	15.56	18.74	22.36	23.94	26.44	28.67	31.03	36.14
	45				9.61	11.87	14.50	17.51	20.94	22.43	24.80	26.91	29.14	33.99
	50					10.85	13.33	16.17	19.41	20.81	23.06	25.05	27.15	31.72
	55						12.02	14.69	17.72	19.05	21.15	23.02	25.00	29.29
	60							13.00	15.83	17.06	19.02	20.77	22.61	26.62
	65								13.64	14.77	16.57	18.17	19.87	23.55

Power consumption [kW]

		Evaporation temperature [°C]												
		-30	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20
Condensation temperature [°C]	25	3.72	3.70	3.68	3.66	3.64	3.63	3.64	3.66	3.67	3.70			
	30	4.09	4.07	4.06	4.05	4.05	4.06	4.08	4.13	4.15	4.20	4.24	4.29	
	35		4.51	4.49	4.48	4.48	4.50	4.53	4.58	4.61	4.67	4.72	4.78	
	40			5.02	4.99	4.98	4.99	5.01	5.07	5.09	5.15	5.20	5.27	5.42
	45				5.61	5.58	5.56	5.57	5.61	5.63	5.68	5.73	5.79	5.94
	50					6.31	6.26	6.24	6.25	6.26	6.29	6.33	6.38	6.51
	55						7.12	7.05	7.02	7.01	7.02	7.04	7.07	7.17
	60							8.04	7.95	7.93	7.91	7.90	7.91	7.96
	65								9.09	9.04	8.98	8.95	8.92	8.91

Application range



Legend

- Suction gas superheating: 10 K
- Current operating conditions

Dimensions

