



Producer: **Copeland**
 Line: **ZP**
 Model: **ZP120KCE-TFD**
 Cooling capacity [kW]: **15.75**
 Displacement [m³/h]: **19.8**
 Refrigerant: **R410A**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	19.8
Oil charge	[l]	3.25
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	13.3
Net weight	[kg]	61.20

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	22.0
Locked rotor amperage	[A]	118.0
Motor resistance main	[Ω]	1.23
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 3/8
Discharge tube diameter	[inch]	7/8
Length	[mm]	281
Height	[mm]	533
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: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

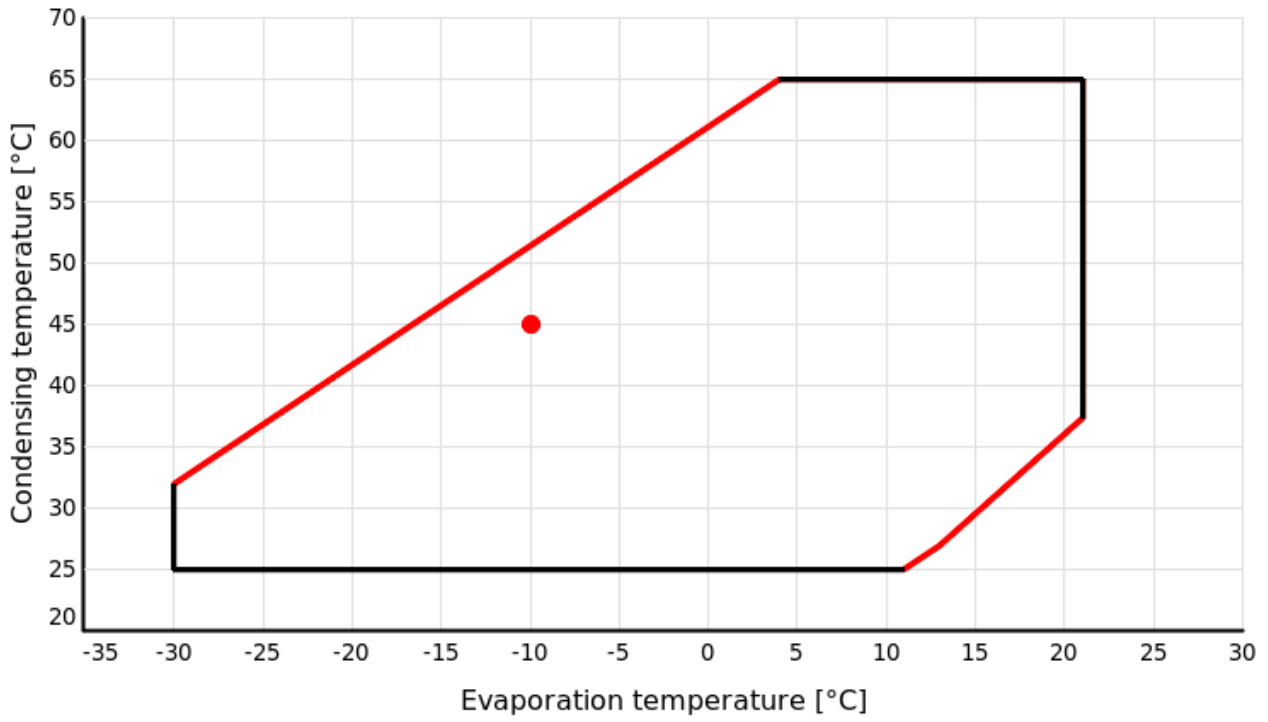
Cooling capacity [kW]

		Evaporation temperature [°C]												
		-30	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20
Condensation temperature [°C]	25	8.50	11.09	14.02	17.33	21.05	25.24	29.93	35.16	37.41	40.98			
	30	7.51	10.06	12.94	16.20	19.86	23.99	28.61	33.77	35.99	39.51	42.61	45.87	
	35		9.04	11.84	15.00	18.58	22.60	27.12	32.17	34.35	37.79	40.83	44.03	
	40			10.72	13.76	17.20	21.09	25.47	30.37	32.49	35.84	38.80	41.91	48.64
	45				12.48	15.75	19.46	23.66	28.37	30.41	33.64	36.50	39.52	46.04
	50					14.22	17.72	21.70	26.18	28.13	31.22	33.96	36.85	43.11
	55						15.88	19.59	23.80	25.63	28.55	31.15	33.89	39.85
	60							17.31	21.20	22.90	25.62	28.04	30.61	36.20
	65								18.31	19.85	22.33	24.54	26.89	32.04

Power consumption [kW]

		Evaporation temperature [°C]												
		-30	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20
Condensation temperature [°C]	25	4.48	4.52	4.54	4.53	4.53	4.54	4.58	4.67	4.73	4.82			
	30	5.07	5.13	5.15	5.14	5.13	5.13	5.15	5.21	5.25	5.32	5.41	5.51	
	35		5.80	5.82	5.82	5.80	5.78	5.78	5.81	5.83	5.89	5.95	6.03	
	40			6.58	6.58	6.55	6.51	6.49	6.49	6.51	6.54	6.58	6.64	6.82
	45				7.44	7.40	7.35	7.31	7.28	7.28	7.29	7.32	7.36	7.48
	50					8.38	8.31	8.25	8.20	8.18	8.17	8.18	8.19	8.27
	55						9.42	9.33	9.25	9.23	9.19	9.18	9.17	9.21
	60							10.58	10.47	10.43	10.38	10.34	10.32	10.30
	65								11.87	11.82	11.74	11.69	11.64	11.58

Application range



Legend

- Suction gas superheating: 10 K
- Current operating conditions

Dimensions

