



Producer: **Copeland**
 Line: **ZR**
 Model: **ZR22K3E-TFD**
 Cooling capacity [kW]: **2.47**
 Heat rejection [kW]: **3.78**
 Displacement [m³/h]: **5.3**
 Refrigerant: **R22, R134a, R407C**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	5.3
Oil charge	[l]	1.00
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	2.9
Net weight	[kg]	22.00
Gross weight	[kg]	26.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	4.2
Locked rotor amperage	[A]	24.0
Motor resistance main	[Ω]	8.64
Maximum suction pressure	[bar]	20.0
Maximum discharge pressure	[bar]	29.5
Maximum suction temperature	[°C]	50.0

Dimensions

Suction tube diameter	[inch]	3/4
Discharge tube diameter	[inch]	1/2
Length	[mm]	242
Height	[mm]	363
Width	[mm]	242

Other

Approved refrigerants	R22, R134a, R407C
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None
Protection rating	IP21 (IEC34)

Performance

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

Cooling capacity

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	1.88	2.39	3.02	3.77	4.65	5.67	6.11	6.81	7.43	8.08
	35	1.74	2.24	2.85	3.58	4.45	5.43	5.86	6.55	7.15	7.79
	40	1.60	2.08	2.67	3.38	4.21	5.17	5.58	6.25	6.83	7.45
	45		1.91	2.47	3.15	3.95	4.87	5.27	5.91	6.47	7.07
	50			2.28	2.91	3.67	4.54	4.92	5.53	6.07	6.65
	55				2.67	3.37	4.19	4.55	5.13	5.64	6.18
	60					3.06	3.82	4.16	4.70	5.18	5.69
	65					2.74	3.44	3.75	4.24	4.69	5.16
	67						3.28	3.58	4.06	4.49	4.94

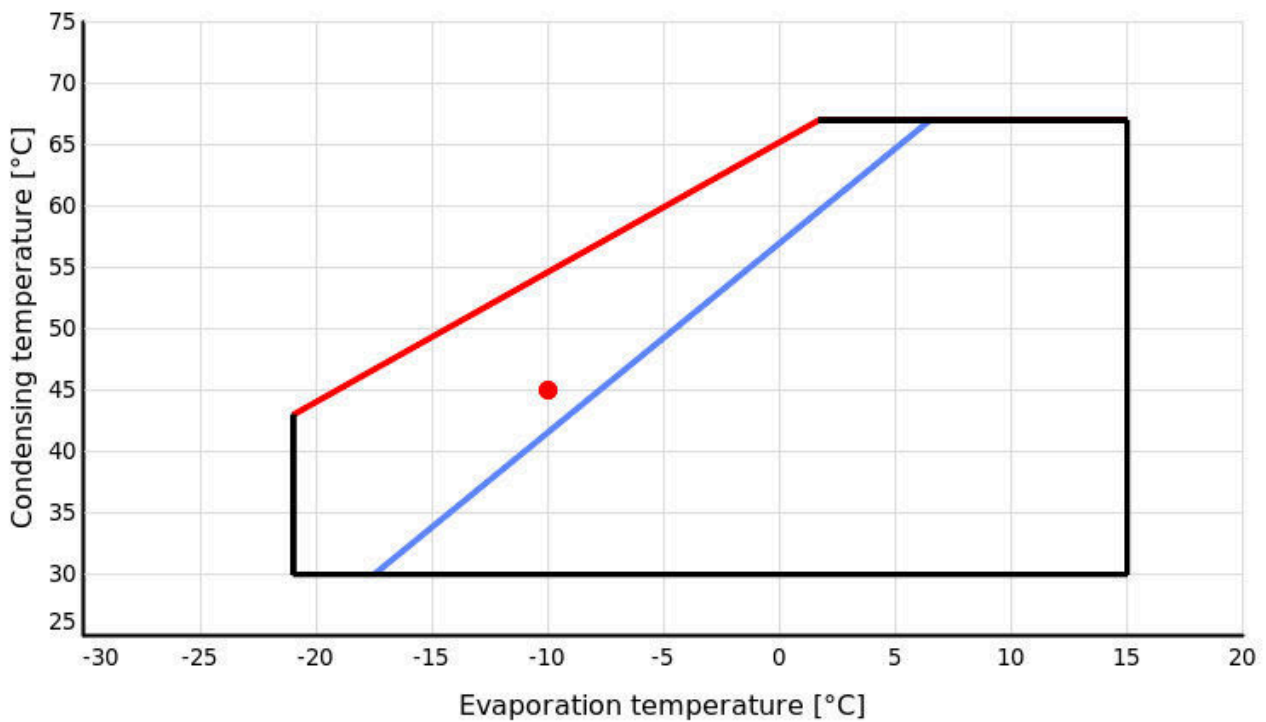
Heat rejection

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	2.79	3.29	3.91	4.66	5.54	6.54	6.98	7.67	8.28	8.92
	35	2.76	3.25	3.86	4.60	5.45	6.43	6.85	7.52	8.12	8.74
	40	2.75	3.23	3.82	4.53	5.35	6.30	6.71	7.35	7.93	8.53
	45		3.22	3.78	4.46	5.25	6.15	6.54	7.16	7.71	8.29
	50			3.75	4.39	5.14	5.99	6.37	6.96	7.48	8.03
	55				4.34	5.04	5.84	6.19	6.74	7.23	7.75
	60					4.95	5.69	6.01	6.53	6.98	7.47
	65					4.87	5.55	5.84	6.31	6.73	7.18
	67						5.49	5.78	6.23	6.63	7.06

Power consumption

		Evaporation temperature [°C]									
		-20	-15	-10	-5	0	5	7	10	12.5	15
Condensation temperature [°C]	30	0.95	0.94	0.94	0.94	0.93	0.92	0.92	0.91	0.89	0.88
	35	1.07	1.07	1.07	1.07	1.06	1.05	1.04	1.03	1.02	1.00
	40	1.21	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.15	1.13
	45		1.37	1.37	1.37	1.37	1.35	1.34	1.32	1.30	1.28
	50			1.56	1.56	1.55	1.53	1.52	1.50	1.48	1.45
	55				1.76	1.75	1.73	1.72	1.70	1.68	1.65
	60					1.98	1.96	1.95	1.92	1.90	1.87
	65					2.24	2.22	2.20	2.18	2.15	2.12
	67						2.33	2.31	2.29	2.26	2.23

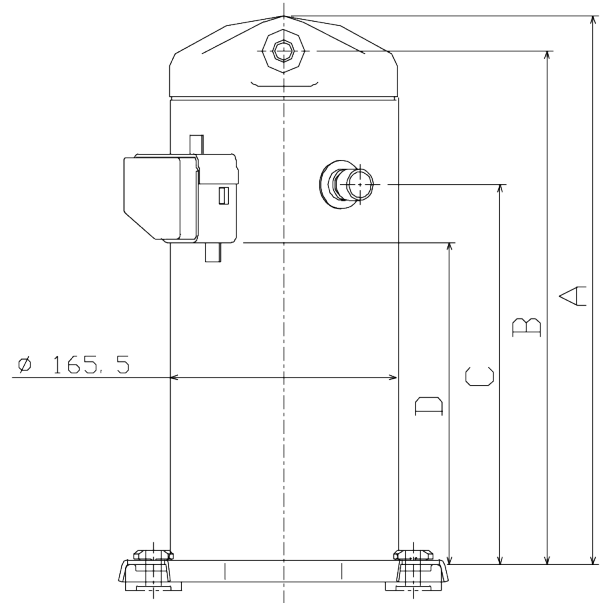
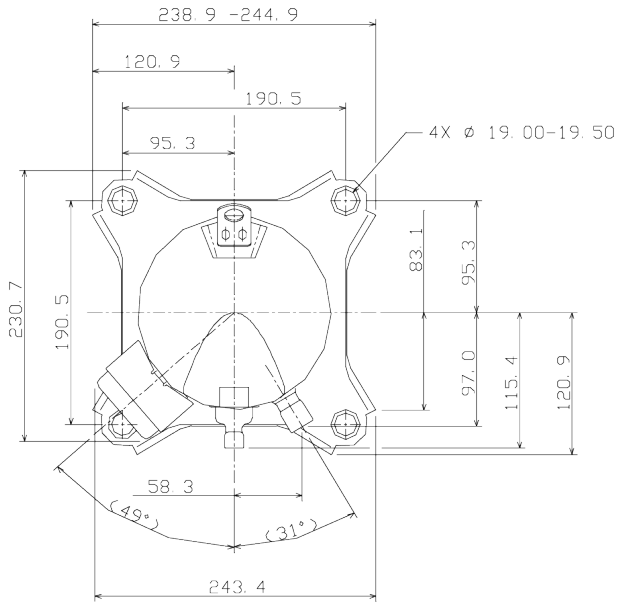
Application range



Legend

- Suction gas superheating: 10 K
- Suction gas temperature: 25°C

Dimensions



Dimensions

Dimension A	[mm]	363
Dimension B	[mm]	338,4
Dimension C	[mm]	244,6
Dimension D	[mm]	202,4