



Producer: **Copeland**

Line: **ZB**

Model: **ZB15KCE-TFD**

Cooling capacity [kW]: **3.07**

Displacement [m<sup>3</sup>/h]: **5.9**

Refrigerant: **R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R513A**

Capacity control: **None**

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	5.9
Oil charge	[l]	0.74
Oil type		POE RL32-3MAF
Internal free volume	[dm <sup>3</sup> ]	2.5
Net weight	[kg]	25.30

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	4.9
Locked rotor amperage	[A]	26.0
Motor resistance main	[Ω]	7.10
Maximum suction pressure	[bar]	21.0
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]	382
Width	[mm]	241

### Other

Approved refrigerants	R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R513A
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None
Protection rating	IP21 (IEC34)

## Performance

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

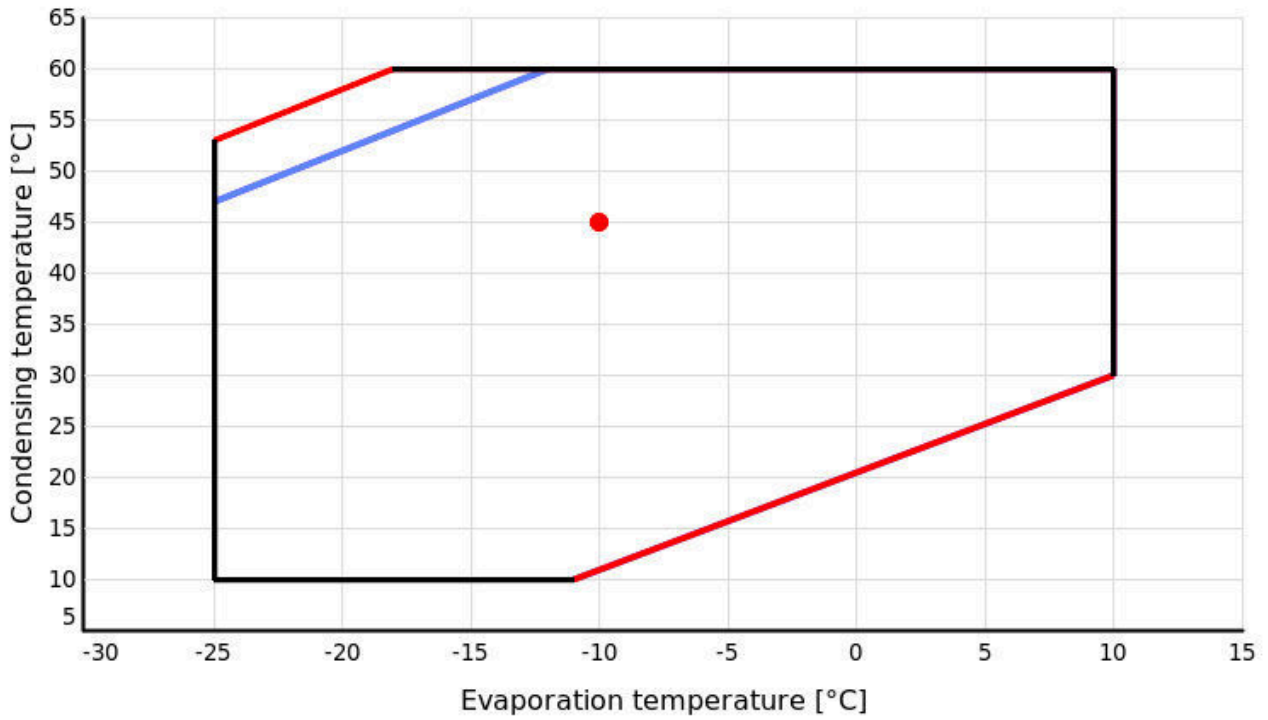
### Cooling capacity

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	2.84	3.53	4.34						
	15	2.69	3.35	4.14	5.06					
	20	2.51	3.15	3.91	4.79	5.81				
	25	2.32	2.93	3.65	4.49	5.46	6.58			
	30	2.11	2.69	3.37	4.17	5.09	6.14	7.35	7.88	8.72
	35	1.88	2.43	3.08	3.82	4.69	5.68	6.82	7.31	8.11
	40	1.63	2.16	2.76	3.46	4.26	5.19	6.26	6.72	7.47
	45	1.37	1.87	2.43	<b>3.07</b>	3.82	4.68	5.67	6.11	6.81
	50	1.10	1.56	2.08	2.67	3.35	4.14	5.06	5.47	6.12
	55		1.24	1.71	2.25	2.87	3.59	4.43	4.80	5.40
	60			1.34	1.82	2.37	3.02	3.78	4.11	4.67

### Power consumption

		Evaporation temperature [°C]								
		-25	-20	-15	-10	-5	0	5	7	10
Condensation temperature [°C]	10	0.80	0.78	0.75						
	15	0.89	0.89	0.86	0.83					
	20	1.00	1.00	0.98	0.95	0.92				
	25	1.12	1.12	1.11	1.08	1.05	1.02			
	30	1.27	1.27	1.25	1.23	1.20	1.17	1.16	1.15	1.16
	35	1.46	1.45	1.42	1.39	1.36	1.33	1.32	1.31	1.32
	40	1.69	1.67	1.63	1.59	1.55	1.51	1.49	1.49	1.49
	45	1.98	1.93	1.88	<b>1.82</b>	1.77	1.72	1.69	1.68	1.68
	50	2.32	2.26	2.18	2.10	2.03	1.97	1.92	1.91	1.90
	55		2.64	2.54	2.44	2.34	2.26	2.20	2.18	2.16
	60			2.97	2.84	2.71	2.61	2.52	2.49	2.46

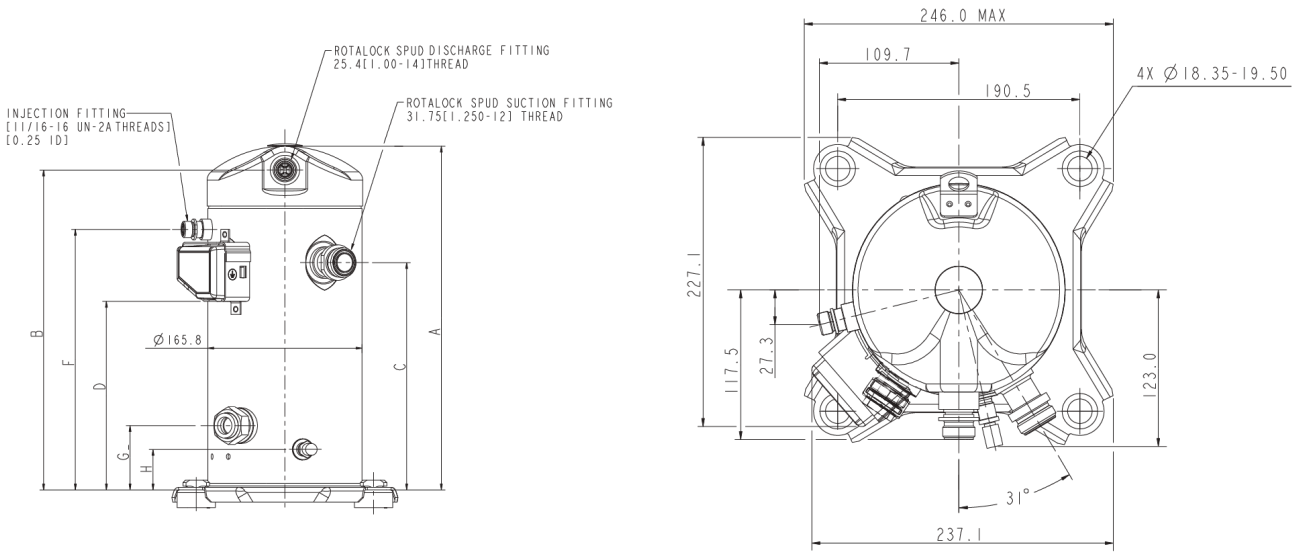
**Application range**



**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 25°C
- Suction gas temperature: 20°C, ASERCOM certified
- Current operating conditions

**Dimensions**



**Dimensions**

Dimension A	[mm]	368,7
Dimension B	[mm]	343,1
Dimension C	[mm]	243,8
Dimension D	[mm]	202,2
Dimension G	[mm]	68,9
Dimension H	[mm]	43,4