



Producer: **Copeland**  
Line: **ZP**  
Model: **ZP154KCE-TFD**  
Cooling capacity [kW]: **20.49**  
Displacement [m<sup>3</sup>/h]: **24.9**  
Refrigerant: **R410A**  
Capacity control: **None**  
Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	24.9
Oil charge	[l]	3.25
Oil type		POE RL32-3MAF
Internal free volume	[dm <sup>3</sup> ]	14.0
Net weight	[kg]	64.90

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	31.0
Locked rotor amperage	[A]	140.0
Motor resistance main	[Ω]	1.09
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]	552
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	10.79	14.07	17.64	21.66	26.25	31.57	37.76	44.97	48.16	53.33			
	30	9.57	12.94	16.54	20.50	24.96	30.07	35.97	42.81	45.84	50.72	55.13	59.86	
	35		11.74	15.35	19.26	23.59	28.49	34.10	40.58	43.44	48.04	52.20	56.66	
	40			14.06	17.91	22.11	26.80	32.13	38.24	40.93	45.26	49.16	53.35	62.64
	45				16.43	20.49	24.98	30.02	35.76	38.29	42.34	45.99	49.90	58.58
	50					18.71	22.99	27.74	33.11	35.47	39.25	42.64	46.28	54.34
	55						20.79	25.25	30.25	32.43	35.92	39.06	42.41	49.85
	60							22.48	27.09	29.09	32.29	35.16	38.22	45.02
	65								19.33	23.51	25.31	28.20	30.77	33.53

### Power consumption [kW]

		Evaporation temperature [°C]												
		-30	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20
Condensation temperature [°C]	25	5.72	5.74	5.78	5.85	5.95	6.07	6.22	6.41	6.49	6.62			
	30	6.42	6.44	6.48	6.53	6.61	6.72	6.85	7.00	7.07	7.19	7.29	7.40	
	35		7.21	7.25	7.30	7.37	7.45	7.56	7.69	7.75	7.85	7.94	8.03	
	40			8.10	8.15	8.21	8.29	8.38	8.49	8.54	8.62	8.70	8.77	8.95
	45				9.11	9.17	9.24	9.32	9.41	9.46	9.52	9.58	9.65	9.79
	50					10.24	10.31	10.38	10.46	10.50	10.56	10.61	10.66	10.78
	55						11.51	11.58	11.66	11.69	11.74	11.78	11.83	11.92
	60							12.93	13.00	13.03	13.08	13.11	13.15	13.24
	65								14.44	14.51	14.54	14.58	14.62	14.65

Application range

