



Producer: [Copeland](#)
 Line: **ZH**
 Model: [ZH92K4E-TWD](#)
 Cooling capacity [kW]: **12.54**
 Heat rejection [kW]: **18.01**
 Displacement [m³/h]: **35.6**
 Refrigerant: **R134a, R407C**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	35.6
Oil charge	[l]	4.14
Oil type		POE RL32-3MAF
Internal free volume	[dm ³]	17.4
Net weight	[kg]	95.00
Gross weight	[kg]	101.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	25.0
Locked rotor amperage	[A]	167.0
Motor resistance main	[Ω]	0.83
Maximum suction pressure	[bar]	22.6
Maximum discharge pressure	[bar]	32.0
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]	356
Height	[mm]	505
Width	[mm]	320

Other

Approved refrigerants	R134a, R407C
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None
Protection rating	IP54 (IEC34)

Performance

Nominal conditions: refrigerant: R134a, 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	12.5	15	
Condensation temperature [°C]	20	7.77	9.99	12.71	16.00	19.91	24.52						
	25	7.40	9.56	12.19	15.37	19.15	23.60						
	30	7.03	9.11	11.65	14.70	18.34	22.63	27.63	29.85				
	35	6.64	8.65	11.08	14.01	17.50	21.61	26.42	28.55	31.98			
	40	6.26	8.17	10.49	13.29	16.62	20.55	25.15	27.19	30.48	33.45	36.62	
	45	5.87	7.69	9.89	12.54	15.70	19.45	23.83	25.78	28.93	31.77	34.81	
	50	5.48	7.19	9.27	11.77	14.76	18.31	22.47	24.33	27.33	30.03	32.93	
	55	5.09	6.70	8.64	10.98	13.79	17.13	21.07	22.83	25.67	28.24	31.00	
	60		6.21	8.01	10.18	12.80	15.93	19.63	21.28	23.97	26.40	29.01	
	65			7.37	9.37	11.79	14.70	18.15	19.70	22.22	24.51	26.97	
	70				8.55	10.76	13.44	16.64	18.08	20.43	22.57	24.88	
	75				7.72	9.72	12.16	15.10	16.43	18.60	20.58	22.74	
76				7.55	9.51	11.90	14.78	16.09	18.23	20.18	22.30		

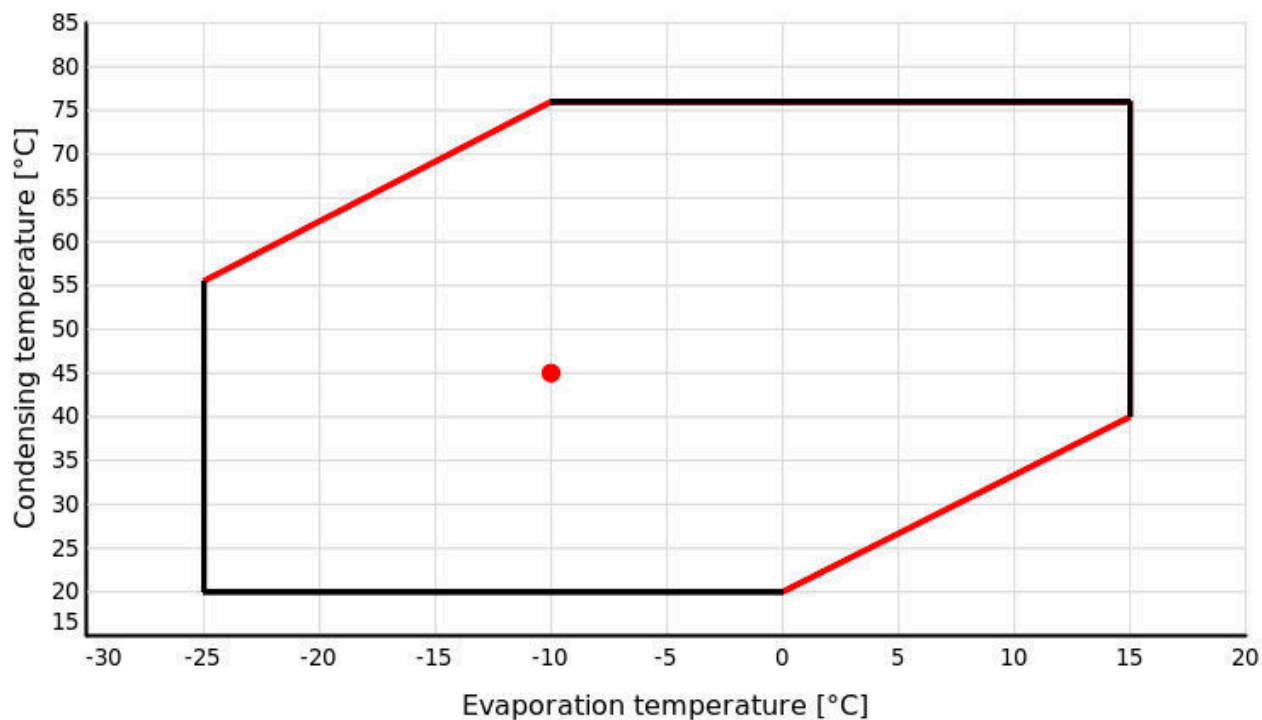
Heat rejection

		Evaporation temperature [°C]											
		-25	-20	-15	-10	-5	0	5	7	10	12.5	15	
Condensation temperature [°C]	20	11.08	13.47	16.35	19.79	23.86	28.63						
	25	10.95	13.30	16.12	19.47	23.42	28.04						
	30	10.81	13.12	15.86	19.12	22.95	27.42	32.61	34.90				
	35	10.67	12.93	15.60	18.76	22.46	26.79	31.80	34.01	37.57			
	40	10.53	12.73	15.33	18.39	21.96	26.14	30.97	33.10	36.53	39.61	42.90	
	45	10.39	12.54	15.06	18.01	21.46	25.47	30.12	32.18	35.48	38.44	41.61	
	50	10.26	12.36	14.79	17.63	20.94	24.80	29.26	31.24	34.41	37.26	40.30	
	55	10.15	12.18	14.53	17.25	20.43	24.12	28.40	30.29	33.33	36.06	38.98	
	60		12.02	14.28	16.89	19.92	23.44	27.53	29.33	32.24	34.85	37.64	
	65			14.04	16.53	19.42	22.77	26.65	28.37	31.14	33.63	36.30	
	70				16.19	18.92	22.10	25.79	27.42	30.04	32.41	34.94	
	75				15.86	18.44	21.44	24.92	26.46	28.95	31.18	33.59	
76				15.79	18.35	21.31	24.75	26.27	28.73	30.94	33.31		

Power consumption

		Evaporation temperature [°C]											
		-25	-20	-15	-10	-5	0	5	7	10	12.5	15	
Condensation temperature [°C]	20	3.48	3.66	3.83	4.00	4.16	4.32						
	25	3.73	3.93	4.13	4.31	4.49	4.67						
	30	3.98	4.21	4.44	4.65	4.85	5.05	5.24	5.32				
	35	4.23	4.50	4.76	5.00	5.23	5.45	5.67	5.75	5.88			
	40	4.49	4.80	5.09	5.37	5.63	5.88	6.13	6.22	6.37	6.49	6.61	
	45	4.76	5.11	5.44	5.76	6.06	6.34	6.62	6.73	6.89	7.03	7.16	
	50	5.04	5.43	5.81	6.17	6.51	6.83	7.15	7.27	7.45	7.61	7.75	
	55	5.32	5.77	6.20	6.60	6.99	7.36	7.71	7.85	8.06	8.23	8.40	
	60		6.12	6.60	7.06	7.49	7.91	8.31	8.47	8.70	8.89	9.08	
	65			7.02	7.54	8.03	8.50	8.95	9.13	9.39	9.60	9.81	
	70				8.04	8.59	9.12	9.63	9.83	10.12	10.36	10.59	
	75				8.57	9.19	9.77	10.34	10.56	10.89	11.16	11.42	
	76				8.68	9.31	9.91	10.49	10.72	11.05	11.32	11.59	

Application range



Legend

■ Suction gas superheating: 10 K

