



Producer: **Copeland**

Line: **Discus**

Cooling capacity [kW]: **11.28**

Displacement [m³/h]: **23.7**

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

Capacity control: **None, Step (option), Inverter (option)**

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

Data

Technical data

Displacement	[m ³ /h]	23.7
Cylinders quantity		2
Cylinder bore	[mm]	63.6
Cylinder stroke	[mm]	42.9
Oil charge	[l]	2.30
Oil type		POE RL32-3MAF
Type of lubrication		Oil pump
Net weight	[kg]	136.0
Gross weight	[kg]	145

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	13.8
Locked rotor amperage	[A]	82.0
Maximum motor frequency	[Hz]	60
Minimum motor frequency	[Hz]	25
Maximum suction pressure	[bar]	22.5
Maximum discharge pressure	[bar]	32.5

Dimensions

Suction valve diameter	[inch]	1 3/8
Discharge connection thread diameter	[inch]	1 1/8
Length	[mm]	590
Height	[mm]	470
Width	[mm]	330

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, Step (option), Inverter (option)
Protection rating	IP 54 (IEC 34)

Performance

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

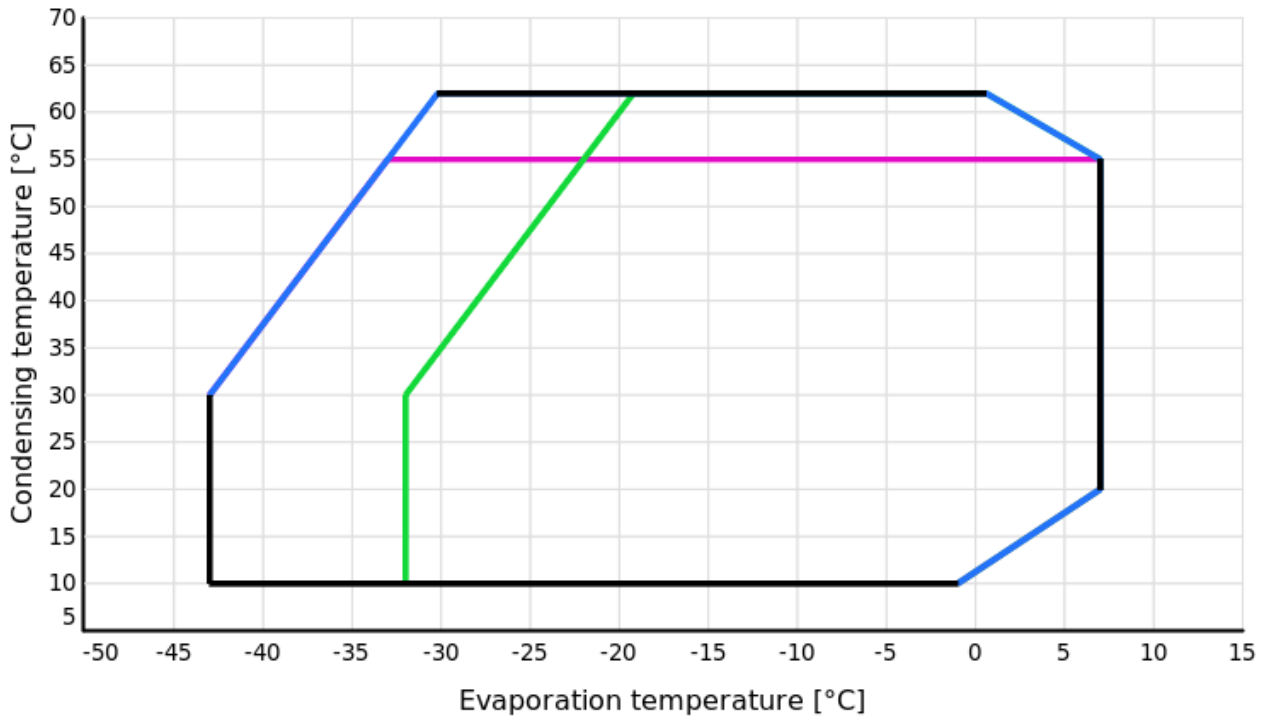
Cooling capacity

		Evaporation temperature [°C]											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
Condensation temperature [°C]	10	4.58	6.13	8.04	10.33	13.06	16.26	19.98	24.29				
	15	4.10	5.58	7.41	9.60	12.21	15.28	18.85	22.98	27.69			
	20	3.62	5.03	6.76	8.85	11.34	14.26	17.68	21.63	26.16	31.28	33.50	
	25	3.16	4.48	6.11	8.08	10.43	13.21	16.46	20.23	24.56	29.49	31.63	
	30	2.73	3.93	5.45	7.29	9.51	12.13	15.20	18.79	22.92	27.64	29.70	
	35	2.32	3.41	4.79	6.50	8.56	11.02	13.92	17.30	21.23	25.74	27.71	
	40		2.92	4.16	5.71	7.62	9.90	12.61	15.79	19.50	23.78	25.67	
	45		2.46	3.55	4.94	6.67	8.77	11.28	14.25	17.73	21.79	23.58	
	50		2.05	2.97	4.19	5.73	7.63	9.93	12.68	15.94	19.76	21.46	
	55			2.44	3.46	4.81	6.50	8.58	11.10	14.12	17.69	19.29	
	60			1.95	2.78	3.91	5.38	7.23	9.51	12.27			
	62			1.77	2.52	3.57	4.94	6.69	8.87	11.53			

Power consumption

		Evaporation temperature [°C]											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
Condensation temperature [°C]	10	2.17	2.41	2.62	2.79	2.88	2.89	2.79	2.56				
	15	2.22	2.49	2.75	2.97	3.13	3.22	3.21	3.08	2.81			
	20	2.25	2.56	2.86	3.13	3.36	3.52	3.59	3.56	3.40	3.10	2.93	
	25	2.28	2.61	2.95	3.27	3.56	3.79	3.94	4.00	3.95	3.76	3.64	
	30	2.29	2.65	3.03	3.39	3.74	4.03	4.27	4.42	4.46	4.38	4.31	
	35	2.29	2.68	3.08	3.49	3.89	4.25	4.56	4.79	4.93	4.96	4.94	
	40		2.69	3.12	3.57	4.02	4.44	4.82	5.14	5.37	5.50	5.52	
	45		2.69	3.15	3.63	4.13	4.61	5.05	5.45	5.77	6.00	6.07	
	50		2.67	3.15	3.67	4.21	4.74	5.26	5.73	6.14	6.46	6.57	
	55			3.14	3.69	4.27	4.86	5.43	5.97	6.47	6.89	7.03	
	60			3.12	3.70	4.31	4.94	5.57	6.19	6.76			
	62			3.11	3.69	4.32	4.97	5.62	6.26	6.87			

Application range



Legend

- Suction gas temperature: 20°C
- Suction gas temperature: 20°C, additional head cooling
- Suction gas temperature: 20°C, ASERCOM certified

Dimensions

