

Producer: **Copeland**
 Line: **Standard**
 Model: **LL-401**
 Cooling capacity [kW]: **8.98**
 Displacement [m³/h]: **18.2**
 Refrigerant: **R22**
 Capacity control: **None, Inverter (option)**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	18.2
Cylinders quantity		2
Cylinder bore	[mm]	60.4
Cylinder stroke	[mm]	36.5
Oil charge	[l]	2.00
Oil type		Suniso 3GS
Type of lubrication		Splash lubrication
Net weight	[kg]	87.00
Gross weight	[kg]	93.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	9.9
Locked rotor amperage	[A]	58.9
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 1/8
Discharge valve diameter	[inch]	5/8
Length	[mm]	460
Height	[mm]	385
Width	[mm]	330

Other

Approved refrigerants	R22
Allowed oil types	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Capacity control	None, Inverter (option)
Protection rating	IP54 (IEC34)

Performance

Nominal conditions: refrigerant: R22, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

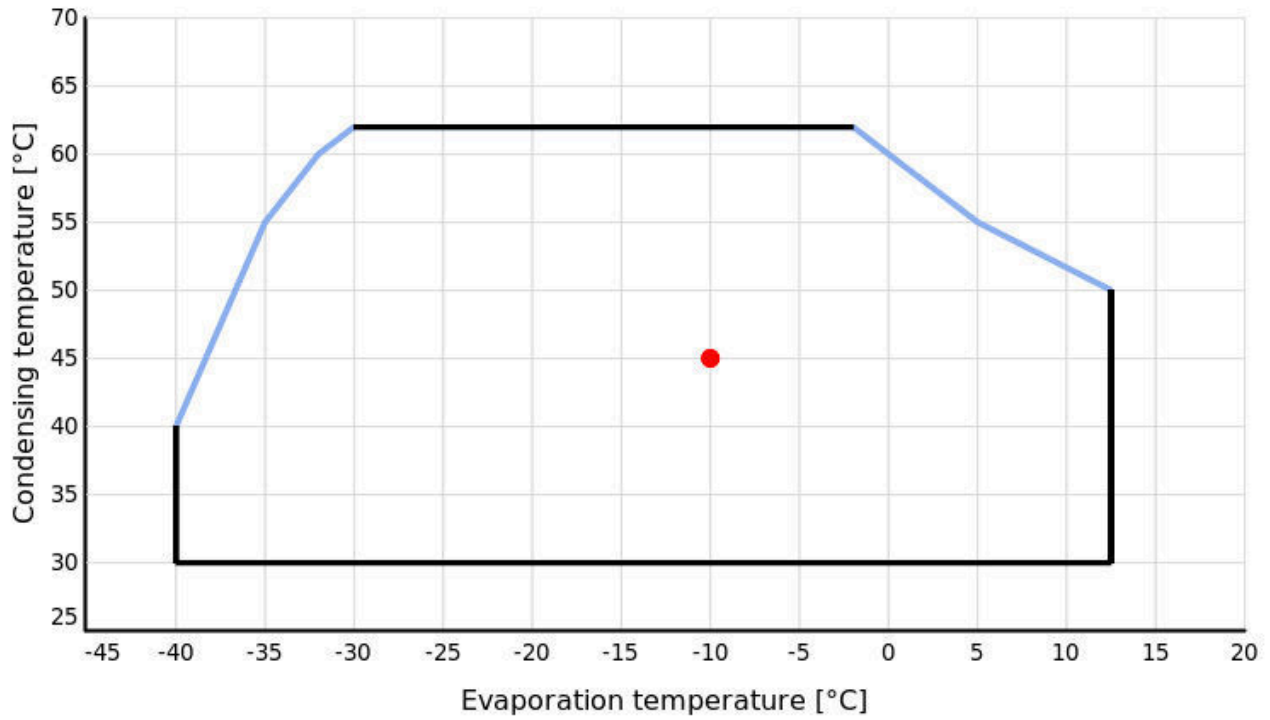
Cooling capacity

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	1.96	2.86	4.04	5.47	7.16	9.11	11.32	13.79	16.55	19.57	20.86	22.87	24.63
	35	1.66	2.51	3.61	4.97	6.57	8.42	10.51	12.87	15.49	18.37	19.60	21.53	23.20
	40	1.39	2.17	3.21	4.48	6.00	7.75	9.73	11.97	14.46	17.20	18.38	20.21	21.81
	45		1.87	2.83	4.03	5.45	7.10	8.98	11.10	13.46	16.06	17.18	18.93	20.46
	50		1.59	2.48	3.60	4.93	6.48	8.25	10.25	12.48	14.96	16.02	17.68	19.13
	55		1.33	2.16	3.19	4.44	5.89	7.56	9.44	11.54	13.88			
	60			1.86	2.82	3.98	5.34	6.89	8.66	10.64				
	62			1.75	2.68	3.80	5.12	6.64	8.35					

Power consumption

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	1.71	1.98	2.26	2.54	2.80	3.04	3.24	3.40	3.49	3.51	3.49	3.44	3.38
	35	1.71	2.00	2.31	2.62	2.92	3.20	3.46	3.66	3.81	3.90	3.91	3.90	3.87
	40	1.71	2.02	2.35	2.69	3.03	3.36	3.65	3.91	4.12	4.27	4.31	4.34	4.35
	45		2.03	2.39	2.76	3.13	3.49	3.84	4.15	4.41	4.62	4.69	4.76	4.80
	50		2.04	2.42	2.82	3.22	3.62	4.01	4.37	4.69	4.96	5.05	5.16	5.24
	55		2.05	2.45	2.87	3.31	3.75	4.17	4.58	4.95	5.28			
	60			2.48	2.92	3.39	3.86	4.33	4.78	5.21				
	62			2.49	2.95	3.42	3.91	4.39	4.86					

Application range



Legend

■ Suction gas temperature: 25°C, additional head cooling