



Producer: **Copeland**  
 Line: **Standard**  
 Model: **LSG-401**  
 Cooling capacity [kW]:  
 Displacement [m<sup>3</sup>/h]: **22.5**  
 Refrigerant: **R22**  
 Capacity control: **None, Inverter (option)**  
 Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	22.5
Cylinders quantity		2
Cylinder bore	[mm]	61.9
Cylinder stroke	[mm]	42.8
Oil charge	[l]	2.00
Oil type		Suniso 3GS
Type of lubrication		Splash lubrication
Net weight	[kg]	77.00
Gross weight	[kg]	82.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	8.6
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]	470
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

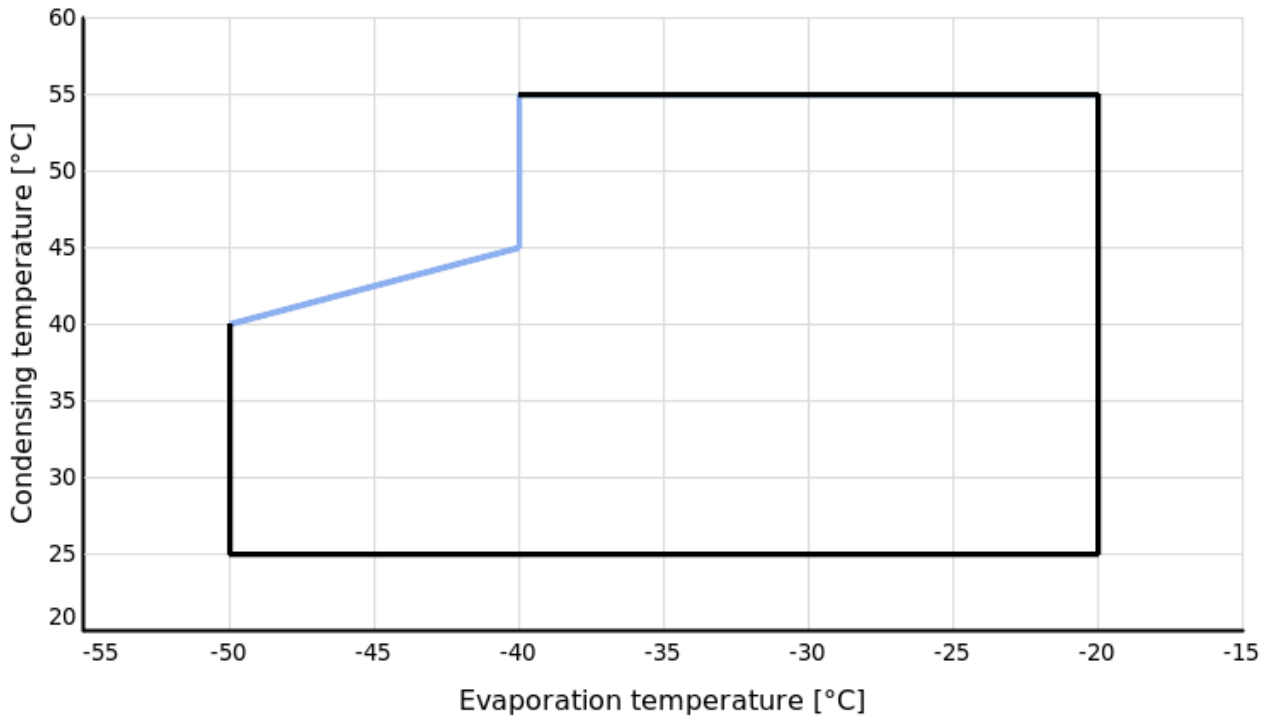
### Cooling capacity

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	25	1.14	1.93	3.03	4.36	5.92	7.67	9.60
	30	0.95	1.67	2.69	3.96	5.44	7.11	8.96
	35	0.77	1.43	2.37	3.57	4.97	6.57	8.33
	40	0.62	1.20	2.07	3.19	4.52	6.03	7.71
	45			1.78	2.82	4.07	5.50	7.09
	50			1.50	2.46	3.63	4.98	6.48
	55			1.25	2.12	3.20	4.46	5.88

### Power consumption

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	25	1.55	1.87	2.22	2.58	2.91	3.21	3.44
	30	1.53	1.87	2.25	2.64	3.02	3.36	3.65
	35	1.49	1.86	2.27	2.69	3.11	3.50	3.84
	40	1.45	1.84	2.27	2.73	3.19	3.62	4.01
	45			2.26	2.75	3.25	3.72	4.16
	50			2.25	2.77	3.30	3.81	4.29
	55			2.22	2.76	3.33	3.88	4.41

**Application range**



**Legend**

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