

Producer: **Copeland**

Line: **Standard**

Model: **LSG-40X**

Cooling capacity [kW]:

Displacement [m³/h]: **22.5**

Refrigerant: **R22, R134a, R404A, R407F, R448A, R449A**

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

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

Data

Technical data

Displacement	[m ³ /h]	22.5
Cylinders quantity		2
Cylinder bore	[mm]	61.9
Cylinder stroke	[mm]	42.8
Oil charge	[l]	2.00
Oil type		POE RL32-3MAF
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]	8.5
Locked rotor amperage	[A]	68.5
Maximum motor frequency	[Hz]	60
Minimum motor frequency	[Hz]	25
Maximum suction pressure	[bar]	22.5
Maximum discharge pressure	[bar]	28.0

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, R134a, R404A, R407F, R448A, R449A
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None, Inverter (option)
Protection rating	IP54 (IEC34)

Performance

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

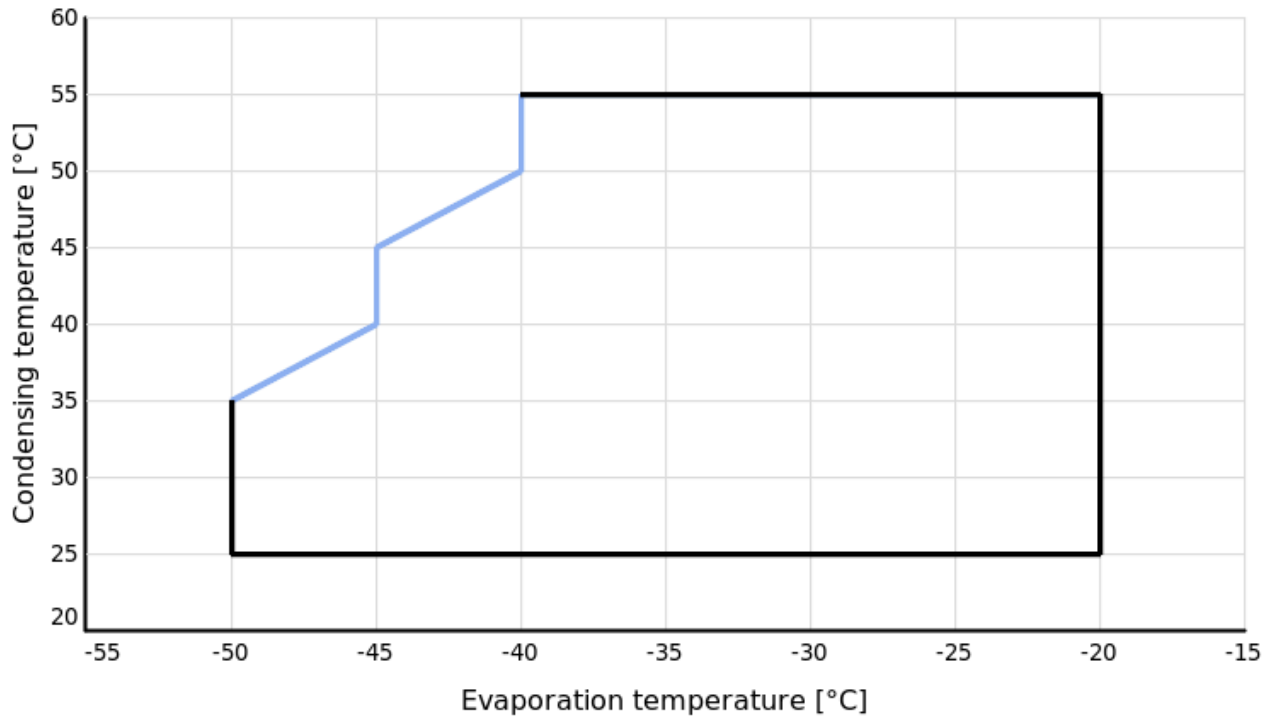
Cooling capacity

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	25	1.15	2.08	3.21	4.55	6.13	7.99	10.17
	30	0.78	1.64	2.70	3.97	5.46	7.21	9.27
	35	0.46	1.23	2.20	3.38	4.78	6.42	8.34
	40		0.85	1.72	2.81	4.09	5.62	7.41
	45		0.52	1.28	2.25	3.42	4.81	6.46
	50			0.87	1.72	2.76	4.02	5.52
	55			0.53	1.23	2.13	3.25	4.59

Power consumption

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	25	1.48	1.84	2.21	2.57	2.94	3.29	3.62
	30	1.40	1.78	2.19	2.60	3.01	3.41	3.81
	35	1.29	1.71	2.15	2.60	3.06	3.52	3.97
	40		1.60	2.08	2.58	3.08	3.60	4.11
	45		1.47	1.99	2.53	3.08	3.65	4.22
	50			1.87	2.45	3.06	3.68	4.31
	55			1.73	2.35	3.01	3.68	4.37

Application range



Legend

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