

Producer: **Copeland**

Line: **Standard**

Model: **LL-30X**

Cooling capacity [kW]:

Displacement [m³/h]: **18.2**

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

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		POE RL32-3MAF
Type of lubrication		Splash lubrication
Net weight	[kg]	85.00
Gross weight	[kg]	91.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	7.3
Locked rotor amperage	[A]	53.0
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 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

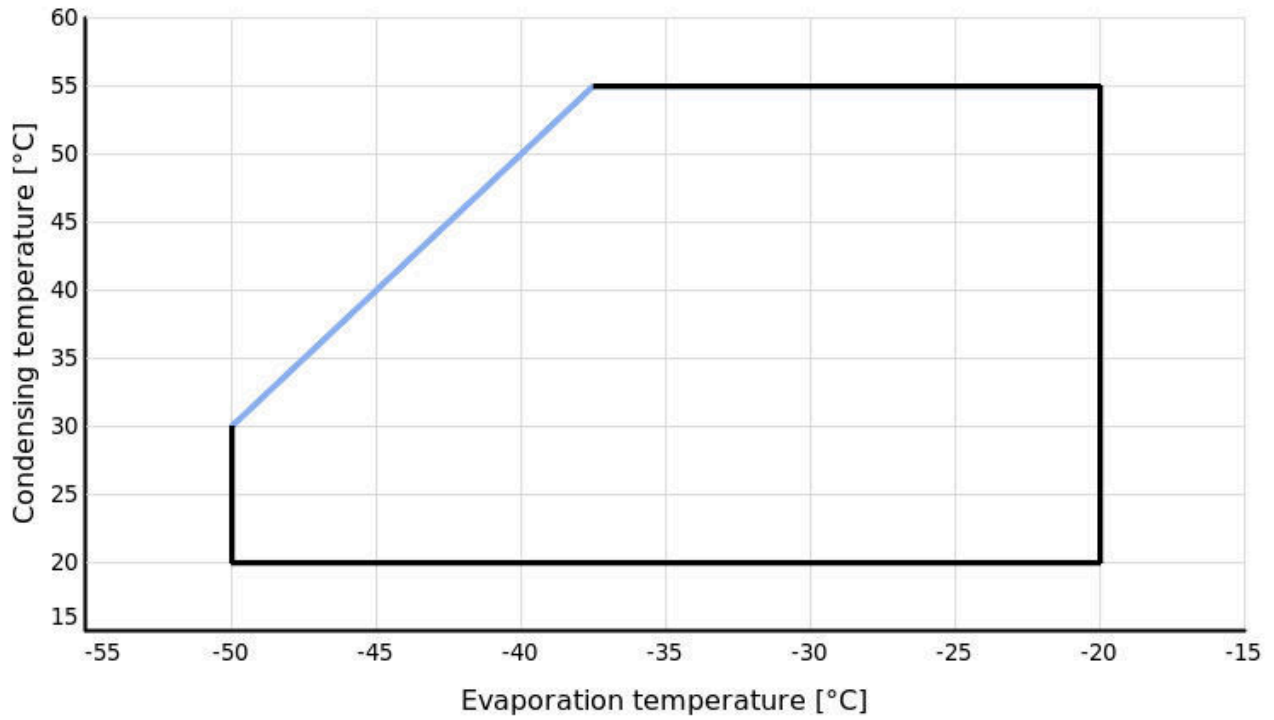
Cooling capacity

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	20	1.04	1.85	2.83	3.99	5.36	6.97	8.86
	25	0.71	1.47	2.41	3.52	4.82	6.36	8.15
	30	0.42	1.11	1.99	3.04	4.27	5.72	7.42
	35		0.77	1.57	2.55	3.71	5.07	6.67
	40		0.47	1.17	2.07	3.14	4.41	5.90
	45			0.81	1.61	2.59	3.75	5.13
	50			0.50	1.17	2.05	3.10	4.36
	55				0.79	1.53	2.47	3.60

Power consumption

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	20	1.21	1.48	1.75	2.03	2.29	2.54	2.77
	25	1.13	1.43	1.74	2.05	2.35	2.65	2.93
	30	1.03	1.36	1.70	2.05	2.40	2.74	3.07
	35		1.26	1.64	2.03	2.42	2.81	3.19
	40		1.15	1.56	1.98	2.42	2.85	3.29
	45			1.45	1.91	2.39	2.88	3.37
	50			1.31	1.82	2.34	2.88	3.42
	55				1.70	2.27	2.85	3.45

Application range



Legend

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