

Producer: **Copeland**

Line: **Standard**

Model: **LF-20X**

Cooling capacity [kW]:

Displacement [m<sup>3</sup>/h]: **12.9**

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

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

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	12.9
Cylinders quantity		2
Cylinder bore	[mm]	50.8
Cylinder stroke	[mm]	36.5
Oil charge	[l]	2.00
Oil type		POE RL32-3MAF
Type of lubrication		Splash lubrication
Net weight	[kg]	80.00
Gross weight	[kg]	86.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	5.5
Locked rotor amperage	[A]	37.6
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]	7/8
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

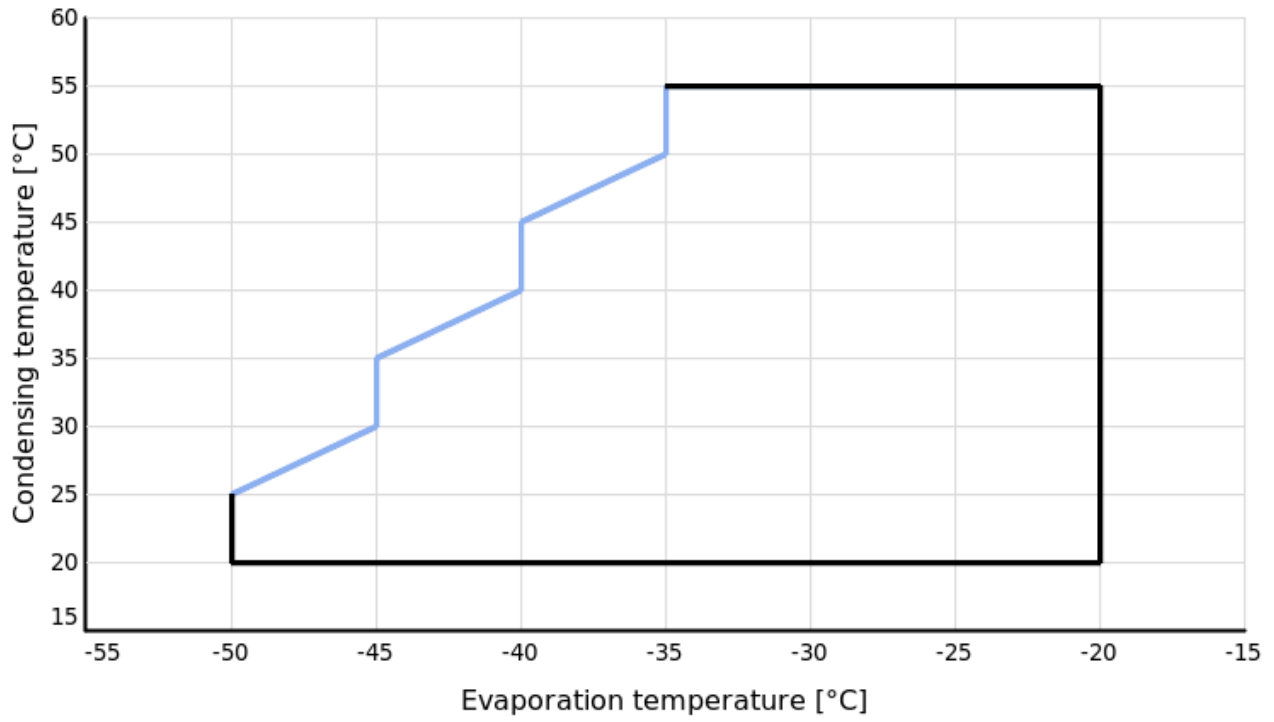
### Cooling capacity

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	20	0.53	1.07	1.73	2.52	3.44	4.52	5.80
	25	0.31	0.81	1.42	2.16	3.03	4.05	5.25
	30		0.56	1.13	1.81	2.62	3.57	4.69
	35		0.35	0.85	1.47	2.21	3.10	4.14
	40			0.60	1.15	1.83	2.63	3.59
	45			0.39	0.87	1.46	2.19	3.06
	50				0.62	1.13	1.77	2.55
	55				0.41	0.83	1.38	2.06

### Power consumption

		Evaporation temperature [°C]						
		-50	-45	-40	-35	-30	-25	-20
Condensation temperature [°C]	20	0.73	0.93	1.14	1.34	1.54	1.74	1.93
	25	0.70	0.92	1.15	1.37	1.59	1.81	2.03
	30		0.90	1.14	1.38	1.63	1.87	2.11
	35		0.87	1.13	1.39	1.65	1.91	2.17
	40			1.11	1.38	1.66	1.94	2.23
	45			1.08	1.37	1.66	1.96	2.26
	50				1.34	1.65	1.97	2.29
	55				1.31	1.64	1.97	2.31

Application range



Legend

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