

Producer: **Copeland**  
 Line: **Standard**  
 Model: **LE-20X**  
 Cooling capacity [kW]: **4.23**  
 Displacement [m<sup>3</sup>/h]: **9.9**  
 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]	9.9
Cylinders quantity		2
Cylinder bore	[mm]	44.5
Cylinder stroke	[mm]	36.5
Oil charge	[l]	2.00
Oil type		POE RL32-3MAF
Type of lubrication		Splash lubrication
Net weight	[kg]	78.00
Gross weight	[kg]	84.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	5.7
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

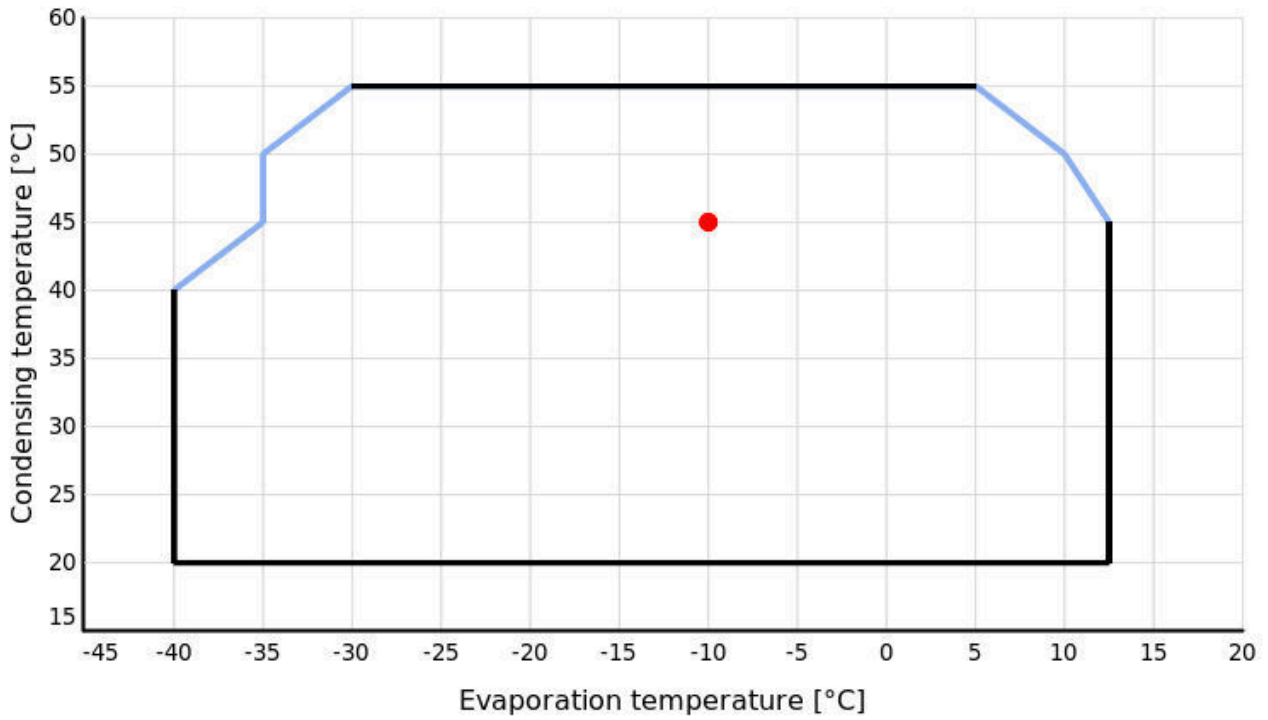
### Cooling capacity

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	20	1.31	1.89	2.59	3.44	4.46	5.67	7.09	8.75	10.69	12.92	13.89	15.46	16.84
	25	1.04	1.61	2.29	3.10	4.07	5.21	6.55	8.12	9.94	12.04	12.97	14.45	15.77
	30	0.77	1.32	1.98	2.75	3.66	4.73	5.99	7.46	9.17	11.15	12.02	13.42	14.66
	35	0.52	1.04	1.66	2.38	3.24	4.24	5.41	6.78	8.38	10.24	11.06	12.37	13.55
	40	0.29	0.76	1.34	2.01	2.81	3.73	4.82	6.10	7.58	9.31	10.08	11.31	12.41
	45		0.51	1.03	1.65	2.38	3.23	<b>4.23</b>	5.40	6.77	8.37	9.08	10.23	11.26
	50		0.29	0.74	1.29	1.95	2.72	3.63	4.70	5.95	7.43	8.08	9.14	
	55			0.48	0.96	1.53	2.22	3.03	3.99	5.13	6.47			

### Power consumption

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	20	0.93	1.08	1.22	1.35	1.46	1.55	1.61	1.64	1.62	1.57	1.53	1.46	1.39
	25	0.90	1.07	1.23	1.38	1.52	1.64	1.73	1.80	1.83	1.82	1.80	1.76	1.71
	30	0.86	1.05	1.23	1.40	1.57	1.72	1.85	1.95	2.02	2.05	2.05	2.04	2.02
	35	0.81	1.01	1.21	1.41	1.60	1.78	1.94	2.08	2.19	2.27	2.29	2.31	2.31
	40	0.74	0.96	1.18	1.40	1.62	1.83	2.03	2.20	2.35	2.47	2.51	2.56	2.58
	45		0.89	1.13	1.38	1.63	1.87	<b>2.09</b>	2.30	2.49	2.66	2.71	2.79	2.84
	50		0.81	1.07	1.34	1.61	1.88	2.14	2.39	2.62	2.83	2.90	3.00	
	55			0.99	1.28	1.58	1.88	2.17	2.46	2.73	2.98			

Application range



Legend

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