

Producer: **Copeland**  
 Line: **Standard**  
 Model: **LJ-30X**  
 Cooling capacity [kW]: **6.63**  
 Displacement [m<sup>3</sup>/h]: **14.5**  
 Refrigerant: **R22, R404A, R407F, R448A, R449A**  
 Capacity control: **None, Inverter (option)**  
 Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	14.5
Cylinders quantity		2
Cylinder bore	[mm]	54.0
Cylinder stroke	[mm]	36.5
Oil charge	[l]	2.00
Oil type		POE RL32-3MAF
Type of lubrication		Splash lubrication
Net weight	[kg]	83.00
Gross weight	[kg]	89.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	7.4
Locked rotor amperage	[A]	50.6
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, 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

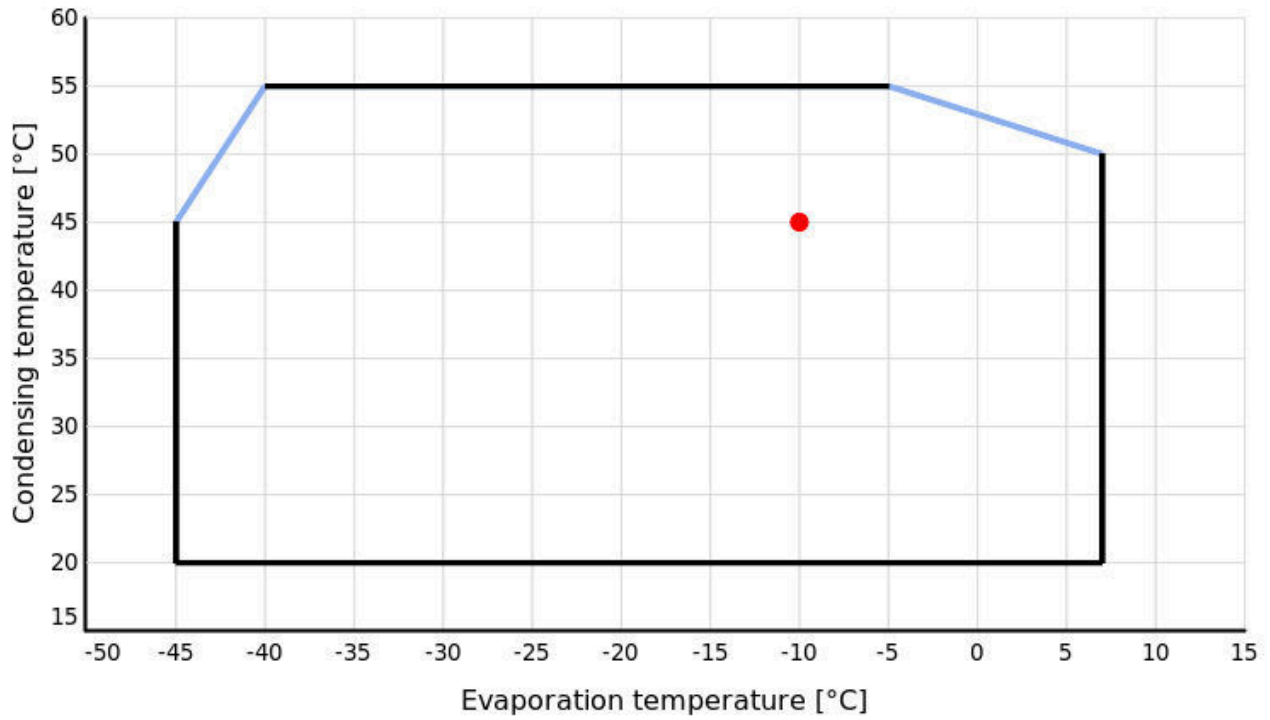
### Cooling capacity

		Evaporation temperature [°C]											
		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
Condensation temperature [°C]	20	1.56	2.29	3.19	4.26	5.54	7.06	8.84	10.93	13.34	16.12	19.27	20.63
	25	1.25	1.95	2.80	3.81	5.01	6.43	8.11	10.06	12.33	14.95	17.92	19.22
	30	0.96	1.62	2.41	3.36	4.48	5.81	7.37	9.20	11.33	13.78	16.59	17.81
	35	0.69	1.30	2.03	2.91	3.95	5.19	6.64	8.34	10.33	12.63	15.26	16.42
	40	0.45	0.99	1.66	2.47	3.43	4.57	5.91	7.49	9.33	11.47	13.95	15.03
	45	0.24	0.70	1.31	2.04	2.91	3.95	5.18	<b>6.63</b>	8.34	10.33	12.64	13.66
	50		0.45	0.97	1.62	2.41	3.34	4.46	5.79	7.35	9.19	11.34	12.29
	55		0.23	0.66	1.22	1.91	2.75	3.75	4.95	6.37			


### Power consumption

		Evaporation temperature [°C]											
		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
Condensation temperature [°C]	20	1.35	1.59	1.83	2.04	2.22	2.36	2.46	2.51	2.49	2.40	2.24	2.15
	25	1.30	1.58	1.84	2.09	2.32	2.51	2.67	2.77	2.82	2.80	2.71	2.66
	30	1.24	1.54	1.84	2.12	2.39	2.63	2.83	3.00	3.11	3.16	3.14	3.11
	35	1.16	1.48	1.81	2.13	2.43	2.71	2.97	3.18	3.35	3.47	3.52	3.52
	40	1.08	1.42	1.77	2.12	2.46	2.78	3.08	3.34	3.57	3.74	3.86	3.89
	45	1.00	1.35	1.72	2.10	2.47	2.83	3.17	<b>3.48</b>	3.75	3.99	4.17	4.22
	50		1.29	1.68	2.08	2.47	2.87	3.24	3.60	3.93	4.21	4.45	4.53
	55		1.24	1.64	2.06	2.48	2.91	3.32	3.71	4.09			

**Application range**



**Legend**

 Suction gas temperature: 25°C, additional head cooling