

Producer: **Copeland**  
 Line: **Standard**  
 Model: **KJ-10X-EWL**  
 Cooling capacity [kW]: **2.30**  
 Displacement [m<sup>3</sup>/h]: **5.1**  
 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]	5.1
Cylinders quantity		2
Cylinder bore	[mm]	39.7
Cylinder stroke	[mm]	23.8
Oil charge	[l]	0.65
Oil type		POE RL32-3MAF
Type of lubrication		Splash lubrication
Net weight	[kg]	39.00
Gross weight	[kg]	41.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	3.2
Locked rotor amperage	[A]	15.5
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]	5/8
Discharge valve diameter	[inch]	1/2
Length	[mm]	365
Height	[mm]	280
Width	[mm]	235

### 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

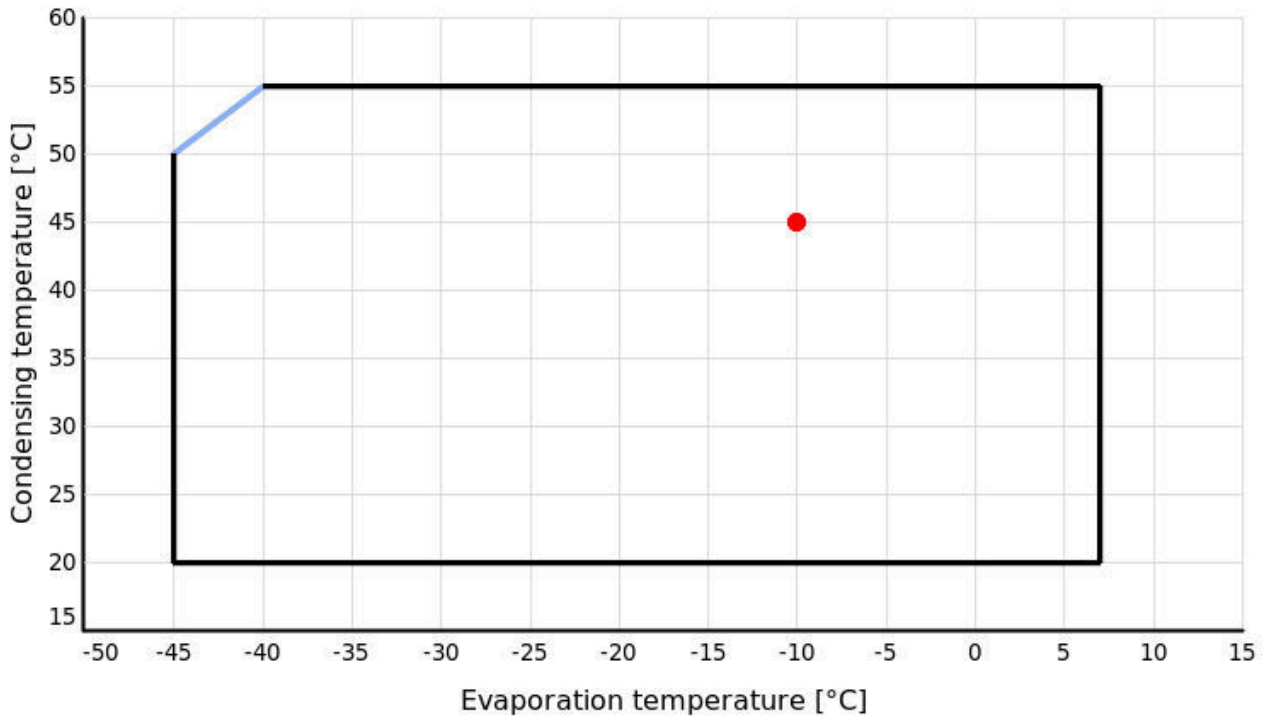
### Cooling capacity

		Evaporation temperature [°C]											
		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
Condensation temperature [°C]	20	0.54	0.79	1.10	1.47	1.91	2.44	3.06	3.79	4.63	5.59	6.68	7.15
	25	0.44	0.67	0.96	1.31	1.73	2.23	2.81	3.49	4.28	5.18	6.21	6.66
	30	0.34	0.56	0.83	1.16	1.55	2.01	2.56	3.19	3.93	4.77	5.74	6.16
	35	0.25	0.46	0.71	1.01	1.37	1.80	2.30	2.89	3.58	4.37	5.28	5.67
	40	0.17	0.36	0.59	0.87	1.20	1.59	2.05	2.60	3.23	3.97	4.81	5.18
	45	0.10	0.27	0.48	0.73	1.03	1.38	1.81	<b>2.30</b>	2.89	3.57	4.35	4.70
	50	0.05	0.19	0.37	0.60	0.86	1.18	1.56	2.01	2.55	3.17	3.90	4.22
	55		0.13	0.28	0.48	0.71	0.99	1.33	1.73	2.21	2.78	3.45	3.74

### Power consumption

		Evaporation temperature [°C]											
		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
Condensation temperature [°C]	20	0.52	0.61	0.69	0.77	0.84	0.90	0.94	0.96	0.96	0.94	0.89	0.87
	25	0.50	0.60	0.69	0.78	0.86	0.94	0.99	1.04	1.06	1.06	1.04	1.02
	30	0.48	0.58	0.69	0.79	0.88	0.97	1.04	1.10	1.15	1.17	1.17	1.17
	35	0.46	0.57	0.68	0.80	0.90	1.00	1.09	1.17	1.23	1.28	1.30	1.31
	40	0.44	0.56	0.68	0.80	0.92	1.03	1.13	1.23	1.31	1.38	1.42	1.44
	45	0.42	0.54	0.67	0.80	0.93	1.05	1.17	<b>1.28</b>	1.38	1.47	1.54	1.56
	50	0.40	0.53	0.66	0.79	0.93	1.07	1.20	1.33	1.45	1.55	1.65	1.68
	55		0.51	0.64	0.79	0.93	1.08	1.23	1.37	1.51	1.63	1.74	1.78

Application range



Legend

- Suction gas temperature: 25°C, additional head cooling
- Current operating conditions

Dimensions

