

Producer: **Copeland**  
 Line: **Standard**  
 Model: **KJ-100-EWL**  
 Cooling capacity [kW]: **2.34**  
 Displacement [m<sup>3</sup>/h]: **5.1**  
 Refrigerant: **R22**  
 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		Suniso 3GS
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]	2.7
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]	355
Height	[mm]	280
Width	[mm]	235

### Other

Approved refrigerants	R22
Allowed oil types	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Capacity control	None, Inverter (option)
Protection rating	IP54 (IEC34)

## Performance

Nominal conditions: refrigerant: R22, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

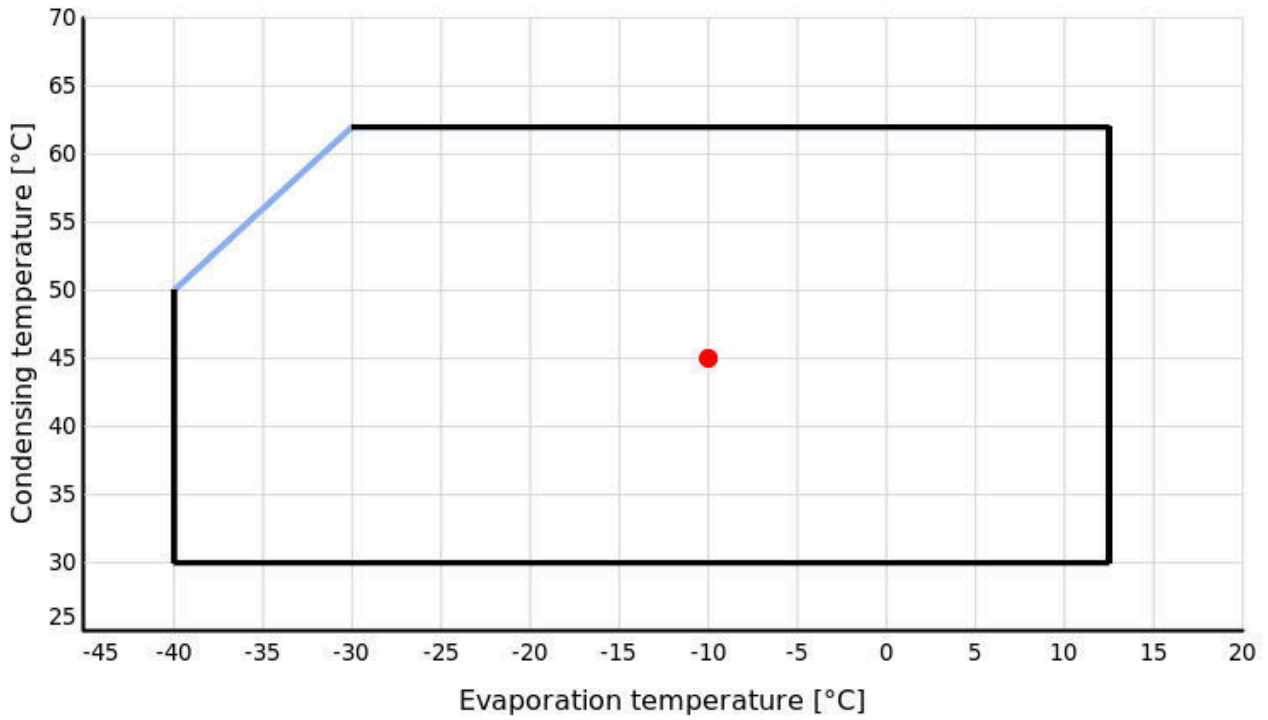
### Cooling capacity

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	0.49	0.72	1.02	1.39	1.83	2.35	2.95	3.63	4.41	5.28	5.65	6.24	6.76
	35	0.42	0.64	0.92	1.26	1.68	2.17	2.74	3.39	4.14	4.97	5.33	5.90	6.40
	40	0.35	0.55	0.81	1.14	1.53	2.00	2.54	3.16	3.87	4.66	5.01	5.55	6.04
	45	0.28	0.47	0.71	1.02	1.39	1.82	<b>2.34</b>	2.93	3.60	4.36	4.69	5.21	5.68
	50	0.21	0.39	0.61	0.90	1.24	1.65	2.14	2.70	3.34	4.06	4.38	4.88	5.32
	55		0.31	0.51	0.78	1.10	1.48	1.94	2.47	3.07	3.76	4.06	4.54	4.96
	60			0.42	0.66	0.96	1.32	1.74	2.24	2.81	3.46	3.75	4.20	4.60
	62			0.38	0.61	0.90	1.25	1.66	2.14	2.70	3.34	3.62	4.07	4.46

### Power consumption

		Evaporation temperature [°C]												
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	0.50	0.57	0.65	0.72	0.79	0.85	0.89	0.92	0.93	0.92	0.91	0.88	0.85
	35	0.50	0.58	0.67	0.75	0.83	0.90	0.96	1.00	1.03	1.04	1.04	1.03	1.01
	40	0.50	0.59	0.68	0.77	0.86	0.94	1.02	1.08	1.13	1.16	1.16	1.16	1.16
	45	0.50	0.59	0.69	0.79	0.89	0.98	<b>1.07</b>	1.15	1.21	1.26	1.28	1.29	1.30
	50	0.49	0.59	0.69	0.80	0.91	1.02	1.12	1.21	1.30	1.37	1.39	1.42	1.44
	55		0.58	0.69	0.80	0.92	1.04	1.16	1.27	1.37	1.46	1.50	1.54	1.57
	60			0.68	0.80	0.93	1.07	1.20	1.32	1.44	1.55	1.59	1.65	1.69
	62			0.67	0.80	0.94	1.07	1.21	1.34	1.47	1.59	1.63	1.69	1.73

Application range



Legend

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

**Dimensions**

