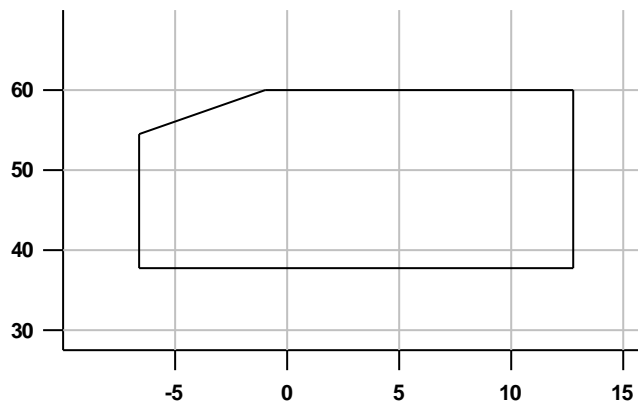


50Hz

KCJ511HAE-UXXX

R22



Minimum evaporating temp. with:  
 ——— 35°C Suction Gas Return

Suction Superheat 11.0K

Evaporating Temperature °C

Liquid subcooling 8.0K

Cond °C	Capacity kW					
	-5	0	5	7	10	12.5
38	1.78	2.24	3.09	3.48	4.07	4.53
40	1.70	2.15	2.99	3.37	3.96	4.43
45	1.50	1.93	2.74	3.12	3.70	4.15
50	1.34	1.72	2.50	2.86	3.42	3.86
55	1.21	1.54	2.27	2.61	3.14	3.56
60		1.38	2.04	2.37	2.86	3.25
	Power Input kW					
	-5	0	5	7	10	12.5
38	0.70	0.74	0.84	0.89	0.97	1.04
40	0.71	0.75	0.85	0.91	0.99	1.05
45	0.74	0.78	0.89	0.94	1.03	1.10
50	0.76	0.81	0.92	0.98	1.07	1.14
55	0.79	0.84	0.96	1.02	1.10	1.18
60		0.88	1.00	1.05	1.15	1.22
	Current 230V, A					
	-5	0	5	7	10	12.5
38	3.82	3.95	4.21	4.34	4.53	4.69
40	3.85	3.99	4.27	4.40	4.60	4.76
45	3.92	4.08	4.37	4.51	4.73	4.91
50	4.01	4.16	4.47	4.61	4.84	5.04
55	4.13	4.27	4.57	4.72	4.96	5.16
60		4.44	4.73	4.87	5.11	5.31
	Mass Flow g/s					
	-5	0	5	7	10	12.5
38	10.20	12.60	17.20	19.30	22.40	24.90
40	9.80	12.30	16.90	19.00	22.20	24.60
45	9.10	11.50	16.10	18.20	21.40	23.90
50	8.40	10.70	15.30	17.40	20.60	23.10
55	7.90	9.90	14.40	16.50	19.70	22.20
60		9.30	13.60	15.70	18.80	21.20

**DWM Copeland - Compressor - - Fractional Asia**
**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, cu.m/h	3.2
Bore/Stroke, mm	3.5/1.9
Length/Width, mm	235/179
Height, mm	264
Net Weight, kg	21.5
Stub Suction, inch	5/16
Stub Discharge, inch	5/16
Oil Quantity, l	0.9
Base mounting (hole dia), mm	NA (0.0)
Sound Pressure @ 1m (HT), dBA	57
Sound Power (HT), dBA	68

**COMPRESSOR ELECTRICAL DATA (220/240V - 1~ - 50Hz)**

Locked Rotor Current, A	25
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES OPTIONAL**

Mounting Grommets	Standard
Single Phase Equipment	Relay, Start and Run Capacitor

**MOTOR OPTIONS**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
220-230 V/1~/50H	220	Uxx		CSCR	1.00
180-260 V/1~/50H	230	Bxx		PSC/CSCR/CSIR	1.00
197-253 V/1~/60H	230	Uxx		CSCR	1.00

Model: KCJ511HAE-UXXX  
 Suction Superheat 11.0K

Refrigerant: R22  
 Liquid subcooling 8.0K

S.I.  
 50Hz

	Evaporating Temperature °C					
	-5.0	0.0	5.0	7.0	10.0	12.5
	Capacity kW					
38.0	1.78	2.24	3.09	3.48	4.07	4.53
40.0	1.70	2.15	2.99	3.37	3.96	4.43
45.0	1.50	1.93	2.74	3.12	3.70	4.15
50.0	1.34	1.72	2.50	2.86	3.42	3.86
55.0	1.21	1.54	2.27	2.61	3.14	3.56
60.0		1.38	2.04	2.37	2.86	3.25

	Power Input kW					
	-5.0	0.0	5.0	7.0	10.0	12.5
38.0	0.70	0.74	0.84	0.89	0.97	1.04
40.0	0.71	0.75	0.85	0.91	0.99	1.05
45.0	0.74	0.78	0.89	0.94	1.03	1.10
50.0	0.76	0.81	0.92	0.98	1.07	1.14
55.0	0.79	0.84	0.96	1.02	1.10	1.18
60.0		0.88	1.00	1.05	1.15	1.22

	COP					
	-5.0	0.0	5.0	7.0	10.0	12.5
38.0	2.55	3.05	3.68	3.90	4.18	4.37
40.0	2.39	2.87	3.50	3.72	4.01	4.19
45.0	2.05	2.48	3.08	3.31	3.59	3.78
50.0	1.76	2.13	2.70	2.92	3.20	3.39
55.0	1.53	1.83	2.36	2.57	2.84	3.01
60.0		1.57	2.04	2.24	2.49	2.66

	Current 230V, A					
	-5.0	0.0	5.0	7.0	10.0	12.5
38.0	3.82	3.95	4.21	4.34	4.53	4.69
40.0	3.85	3.99	4.27	4.40	4.60	4.76
45.0	3.92	4.08	4.37	4.51	4.73	4.91
50.0	4.01	4.16	4.47	4.61	4.84	5.04
55.0	4.13	4.27	4.57	4.72	4.96	5.16
60.0		4.44	4.73	4.87	5.11	5.31

	Mass Flow g/s					
	-5.0	0.0	5.0	7.0	10.0	12.5
38.0	10.20	12.60	17.20	19.30	22.40	24.90
40.0	9.80	12.30	16.90	19.00	22.20	24.60
45.0	9.10	11.50	16.10	18.20	21.40	23.90
50.0	8.40	10.70	15.30	17.40	20.60	23.10
55.0	7.90	9.90	14.40	16.50	19.70	22.20
60.0		9.30	13.60	15.70	18.80	21.20

Model: KCJ511HAE-UXXX

Refrigerant: R22

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	-5.0	0.0	5.0	7.0	10.0	12.5
			Heat Rejection kW			
38.0	2.34	2.80	3.70	4.12	4.75	5.25
40.0	2.26	2.73	3.62	4.03	4.66	5.16
45.0	2.11	2.54	3.41	3.81	4.44	4.93
50.0	1.97	2.38	3.21	3.60	4.20	4.68
55.0	1.87	2.23	3.01	3.39	3.96	4.42
60.0		2.11	2.83	3.18	3.73	4.16

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# Copeland Selection Software

REFRIGERANT R22

## Operating Conditions:

Evaporating Temperature: 7.2°C  
 Condensing Temperature: 54.4°C  
 Liquid subcooling: 8.0K  
 Suction Superheat: 11.0K

**Required Capacity: 20.0 kW**  
 Compressor Selected: KCJ511HAE-UXXX

### **PERFORMANCE AT SPECIFIED OPERATING POINT** **KCJ511HAE-UXXX Data at 50 Hz**

Capacity kW	2.68
Power Input kW	1.02
COP	2.63
Current 230V, A	4.72
Mass Flow g/s	16.90
Heat Rejection kW	3.45

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders 2	Bore/Stroke, mm 3.5/1.9
Length/Width, mm 235/179	Height, mm 264
Net Weight, kg 21.5	Stub Suction, inch 5/16
Stub Discharge, inch 5/16	Oil Quantity, l 0.9
Sound Power (HT), dBA 68	
Displacement @ 50 Hz, cu.m/h 3.2	
Base mounting (hole dia), mm NA (0.0)	
Sound Pressure @ 1m (HT), dBA 57	

### **COMPRESSOR ELECTRICAL DATA (220/240V - 1~ - 50Hz)**

Locked Rotor Current, A 25  
 Default Enclosure Class IP 21 (IEC 34)

### **ACCESSORIES OPTIONAL**

Mounting Grommets	Standard
Single Phase Equipment	Relay, Start and Run Capacitor