



tecumseh

CAJ4519Z

220 - 240V 1~ 50 Hz

Compressor

AJ4519Z-FZ3C

HBP

R-404A / R-448A / R-449A / R-452A / R-22 / R-407C

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	4370	14903	68 dBA
R-404A	50HZ	4360	14867	
R-448A	50HZ	4375	14917	
R-449A	50HZ	4375	14917	
R-407C	50HZ	4147	14142	
R-22	50HZ	4384	14948	

(*) Operating conditions EN12900 : Dew / T°Cond. 122°F / T°Evap 41°F / T°Return gas temp. 68°F / T°Subcooling 0°F



*Non-contractual picture

Dimensions

Weight	22.2 kg (49 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	280 mm (11 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	3/8 in (9.52mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	34.5
Horse Power	1 1/2
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	475

Electrical

Motor Type	CSR
Main Winding (Ohm)	1.3
Start Winding (Ohm)	6.1
Current RLA 50Hz (A)	9.9
Current MCC (A)	15.2
Current LRA (A)	45
Start Capacitor	100-115 µF / 330 V
Run Capacitor	35 µF / 400 V
Overload	GA3SHU00
- Time Check	7.5s - 14s / 34 A
- Open Temp / Close Temp	140 °C / 61 °C
Potential Relay	RVA 4G3D
- Pick Up / Drop Out	180-195 V / 40-105 V

Note : Tecumseh reserves the right to change information contained in this document without notification.



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Conditions DEW

Return gas temp. : 68 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4945	6851	9084	11710	14792	18395	22583	27421
	Power Input	(W)	1040	1160	1278	1393	1510	1628	1750	1877
	Amps	(A)	4.85	5.36	5.87	6.37	6.88	7.39	7.9	8.41
105	Refrig. Capacity	(Btu/h)		5693	7733	10087	12819	15994	19676	23930
	Power Input	(W)		1206	1349	1487	1624	1759	1896	2037
	Amps	(A)		5.44	6.08	6.73	7.38	8.03	8.68	9.34
120	Refrig. Capacity	(Btu/h)			6322	8379	10736	13457	16608	20252
	Power Input	(W)			1398	1569	1734	1897	2059	2221
	Amps	(A)			6.25	7.04	7.83	8.63	9.42	10.2
140	Refrig. Capacity	(Btu/h)				6036	7854	9932	12334	15126
	Power Input	(W)				1638	1857	2070	2279	2485
	Amps	(A)				7.37	8.35	9.34	10.3	11.3

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5294	7231	9483	12113	15181	18748	22876	27625
	Power Input	(W)	1104	1226	1344	1460	1575	1692	1811	1934
	Amps	(A)	5.15	5.66	6.17	6.68	7.18	7.68	8.17	8.67
105	Refrig. Capacity	(Btu/h)		6006	8051	10390	13083	16193	19781	23906
	Power Input	(W)		1280	1422	1560	1695	1828	1961	2095
	Amps	(A)		5.77	6.42	7.06	7.7	8.34	8.98	9.61
120	Refrig. Capacity	(Btu/h)		4749	6563	8587	10884	13513	16536	20015
	Power Input	(W)		1305	1481	1650	1813	1972	2128	2282
	Amps	(A)		5.83	6.62	7.4	8.18	8.96	9.74	10.5
140	Refrig. Capacity	(Btu/h)			4574	6142	7872	9824	12059	14638
	Power Input	(W)			1507	1731	1947	2154	2355	2551
	Amps	(A)			6.82	7.79	8.76	9.72	10.7	11.6



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Conditions DEW

Return gas temp. : 68 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4324	6177	8366	10961	14033	17653	21890	26815
	Power Input	(W)	973	1082	1192	1303	1415	1529	1646	1766
	Amps	(A)	4.54	5	5.47	5.96	6.45	6.94	7.43	7.91
105	Refrig. Capacity	(Btu/h)		5155	7172	9526	12289	15530	19320	23730
	Power Input	(W)		1133	1266	1397	1528	1659	1790	1921
	Amps	(A)		5.11	5.71	6.32	6.95	7.57	8.19	8.81
120	Refrig. Capacity	(Btu/h)			5940	8036	10473	13319	16645	20523
	Power Input	(W)			1320	1484	1645	1803	1959	2113
	Amps	(A)			5.9	6.66	7.42	8.2	8.97	9.73
140	Refrig. Capacity	(Btu/h)				6059	8033	10326	13008	16149
	Power Input	(W)				1558	1776	1989	2197	2400
	Amps	(A)				7.01	7.99	8.98	9.97	11

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4324	6177	8366	10961	14033	17653	21890	26815
	Power Input	(W)	973	1082	1192	1303	1415	1529	1646	1766
	Amps	(A)	4.54	5	5.47	5.96	6.45	6.94	7.43	7.91
105	Refrig. Capacity	(Btu/h)		5155	7172	9526	12289	15530	19320	23730
	Power Input	(W)		1133	1266	1397	1528	1659	1790	1921
	Amps	(A)		5.11	5.71	6.32	6.95	7.57	8.19	8.81
120	Refrig. Capacity	(Btu/h)			5940	8036	10473	13319	16645	20523
	Power Input	(W)			1320	1484	1645	1803	1959	2113
	Amps	(A)			5.9	6.66	7.42	8.2	8.97	9.73
140	Refrig. Capacity	(Btu/h)				6059	8033	10326	13008	16149
	Power Input	(W)				1558	1776	1989	2197	2400
	Amps	(A)				7.01	7.99	8.98	9.97	11

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



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Conditions DEW

Return gas temp. : 68 °F
Subcooling : 0 °F

50HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3897	5576	7602	10044	12971	16453	20559	25360
	Power Input	(W)	907	1020	1127	1231	1333	1435	1538	1643
	Amps	(A)	4.23	4.71	5.17	5.63	6.07	6.51	6.94	7.36
105	Refrig. Capacity	(Btu/h)		4667	6538	8762	11409	14548	18249	22582
	Power Input	(W)		1055	1189	1317	1442	1564	1685	1807
	Amps	(A)		4.75	5.36	5.96	6.55	7.14	7.71	8.29
120	Refrig. Capacity	(Btu/h)		3728	5427	7416	9765	12544	15822	19669
	Power Input	(W)		1058	1227	1389	1545	1696	1845	1992
	Amps	(A)		4.73	5.49	6.23	6.98	7.71	8.44	9.17
140	Refrig. Capacity	(Btu/h)			3987	5636	7562	9833	12520	15692
	Power Input	(W)			1223	1443	1655	1860	2059	2254
	Amps	(A)			5.54	6.49	7.44	8.39	9.34	10.3

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50HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)	5451	7318	9520	12115	15159	18709	22824
	Power Input	(W)	1183	1307	1428	1546	1663	1783	1906
	Amps	(A)	5.33	5.9	6.46	7.02	7.59	8.16	8.74
120	Refrig. Capacity	(Btu/h)	4600	6301	8291	10625	13361	16557	20269
	Power Input	(W)	1218	1374	1523	1669	1812	1955	2100
	Amps	(A)	5.45	6.14	6.84	7.54	8.24	8.95	9.67
140	Refrig. Capacity	(Btu/h)		4985	6666	8628	10930	13627	16778
	Power Input	(W)		1422	1624	1820	2010	2198	2385
	Amps	(A)		6.43	7.31	8.19	9.07	9.97	10.9