



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	5231	17837	68 dBA
R-404A	50HZ	5289	18036	
R-448A	50HZ	5062	17262	
R-449A	50HZ	5077	17312	
R-407C	50HZ	4771	16271	
R-22	50HZ	4926	16798	

(*) Operating conditions ASHRAE : Dew / T°Cond. 130°F / T°Evap 45°F / T°Return gas temp. 95°F / T°Subcooling 15°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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220 - 240V 1~ 50 Hz

Performances are given at rating conditions ASHRAE
Conditions DEW

Return gas temp. : 95 °F
Subcooling : 15 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		7811	10364	13371	16907	21050	25879	31476
	Power Input	(W)		1160	1278	1393	1510	1628	1750	1877
	Amps	(A)		5.36	5.87	6.37	6.88	7.39	7.9	8.41
105	Refrig. Capacity	(Btu/h)			8984	11733	14932	18662	23007	28053
	Power Input	(W)			1349	1487	1624	1759	1896	2037
	Amps	(A)			6.08	6.73	7.38	8.03	8.68	9.34
120	Refrig. Capacity	(Btu/h)				9989	12825	16117	19951	24422
	Power Input	(W)				1569	1734	1897	2059	2221
	Amps	(A)				7.04	7.83	8.63	9.42	10.2
140	Refrig. Capacity	(Btu/h)					9894	12564	15687	19367
	Power Input	(W)					1857	2070	2279	2485
	Amps	(A)					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)		8313	10914	13957	17516	21668	26492	32069
	Power Input	(W)		1226	1344	1460	1575	1692	1811	1934
	Amps	(A)		5.66	6.17	6.68	7.18	7.68	8.17	8.67
105	Refrig. Capacity	(Btu/h)			9457	12224	15424	19136	23443	28435
	Power Input	(W)			1422	1560	1695	1828	1961	2095
	Amps	(A)			6.42	7.06	7.7	8.34	8.98	9.61
120	Refrig. Capacity	(Btu/h)				10398	13214	16463	20231	24618
	Power Input	(W)				1650	1813	1972	2128	2282
	Amps	(A)				7.4	8.18	8.96	9.74	10.5
140	Refrig. Capacity	(Btu/h)					10208	12814	15845	19417
	Power Input	(W)					1947	2154	2355	2551
	Amps	(A)					8.76	9.72	10.7	11.6



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CAJ4519Z

220 - 240V 1~ 50 Hz

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Conditions DEW

Return gas temp. : 95 °F
Subcooling : 15 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			9274	12158	15575	19608	24337	29845
	Power Input	(W)			1192	1303	1415	1529	1646	1766
	Amps	(A)			5.47	5.96	6.45	6.94	7.43	7.91
105	Refrig. Capacity	(Btu/h)			8049	10700	13816	17480	21776	26791
	Power Input	(W)			1266	1397	1528	1659	1790	1921
	Amps	(A)			5.71	6.32	6.95	7.57	8.19	8.81
120	Refrig. Capacity	(Btu/h)				9172	11969	15246	19091	23596
	Power Input	(W)				1484	1645	1803	1959	2113
	Amps	(A)				6.66	7.42	8.2	8.97	9.73
140	Refrig. Capacity	(Btu/h)					9472	12207	15425	19225
	Power Input	(W)					1776	1989	2197	2400
	Amps	(A)					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)			9289	12177	15601	19641	24379	29898
	Power Input	(W)			1192	1303	1415	1529	1646	1766
	Amps	(A)			5.47	5.96	6.45	6.94	7.43	7.91
105	Refrig. Capacity	(Btu/h)			8064	10720	13843	17515	21821	26848
	Power Input	(W)			1266	1397	1528	1659	1790	1921
	Amps	(A)			5.71	6.32	6.95	7.57	8.19	8.81
120	Refrig. Capacity	(Btu/h)				9194	11997	15283	19139	23656
	Power Input	(W)				1484	1645	1803	1959	2113
	Amps	(A)				6.66	7.42	8.2	8.97	9.73
140	Refrig. Capacity	(Btu/h)					9503	12247	15478	19294
	Power Input	(W)					1776	1989	2197	2400
	Amps	(A)					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.



Performances are given at rating conditions ASHRAE
Conditions DEW

Return gas temp. : 95 °F
Subcooling : 15 °F

50HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		6136	8368	11061	14292	18140	22684	28004
	Power Input	(W)		1020	1127	1231	1333	1435	1538	1643
	Amps	(A)		4.71	5.17	5.63	6.07	6.51	6.94	7.36
105	Refrig. Capacity	(Btu/h)		5192	7277	9758	12716	16229	20380	25251
	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)			6124	8376	11041	14201	17939	22343
	Power Input	(W)			1227	1389	1545	1696	1845	1992
	Amps	(A)			5.49	6.23	6.98	7.71	8.44	9.17
140	Refrig. Capacity	(Btu/h)			4614	6531	8776	11435	14595	18349
	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)		7978	10382	13217	16546	20433	24942
	Power Input	(W)		1307	1428	1546	1663	1783	1906
	Amps	(A)		5.9	6.46	7.02	7.59	8.16	8.74
120	Refrig. Capacity	(Btu/h)			9131	11708	14734	18273	22392
	Power Input	(W)			1523	1669	1812	1955	2100
	Amps	(A)			6.84	7.54	8.24	8.95	9.67
140	Refrig. Capacity	(Btu/h)				9675	12269	15317	18889
	Power Input	(W)				1820	2010	2198	2385
	Amps	(A)				8.19	9.07	9.97	10.9