



tecumseh

TAJ4519Z

400V 3~ 50Hz / 440V 3~ 60 Hz

Compressor

AJ4519Z-TZ1C

HBP

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

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	5109 / 5722	17422 / 19511	68 dBA
R-404A	50HZ / 60HZ	5166 / 5786	17618 / 19729	
R-448A	50HZ / 60HZ	4945 / 5537	16861 / 18883	
R-449A	50HZ / 60HZ	4959 / 5553	16910 / 18937	
R-407C	50HZ / 60HZ	4661 / 5220	15893 / 17799	
R-22	50HZ / 60HZ	4913 / 5810	16754 / 19813	

(*) 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	21 kg (46 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	3PH
Main Winding (Ohm)	8.7
Current RLA 50Hz (A)	4
Current RLA 60Hz (A)	4
Current MCC (A)	6.3
Current LRA (A)	23
Overload	Internal

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



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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)		7803	10239	13113	16494	20454	25064	30397
	Power Input	(W)		1067	1197	1324	1448	1569	1688	1806
	Amps	(A)		2.69	2.84	3	3.16	3.32	3.49	3.67
105	Refrig. Capacity	(Btu/h)			8911	11533	14579	18123	22240	27008
	Power Input	(W)			1270	1417	1559	1698	1834	1967
	Amps	(A)			2.89	3.09	3.29	3.5	3.72	3.94
120	Refrig. Capacity	(Btu/h)				9887	12603	15737	19366	23577
	Power Input	(W)				1504	1675	1841	2003	2161
	Amps	(A)				3.21	3.46	3.72	3.98	4.25
140	Refrig. Capacity	(Btu/h)					9856	12462	15464	18960
	Power Input	(W)					1810	2028	2240	2447
	Amps	(A)					3.72	4.04	4.36	4.7

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		8305	10781	13687	17089	21055	25658	30971
	Power Input	(W)		1127	1260	1387	1511	1631	1747	1860
	Amps	(A)		2.85	2.99	3.14	3.29	3.45	3.61	3.78
105	Refrig. Capacity	(Btu/h)			9381	12017	15060	18583	22662	27376
	Power Input	(W)			1339	1486	1628	1765	1896	2024
	Amps	(A)			3.05	3.24	3.44	3.64	3.85	4.05
120	Refrig. Capacity	(Btu/h)				10292	12986	16075	19638	23765
	Power Input	(W)				1581	1750	1913	2070	2221
	Amps	(A)				3.38	3.62	3.86	4.11	4.36
140	Refrig. Capacity	(Btu/h)					10167	12708	15621	19011
	Power Input	(W)					1898	2110	2315	2512
	Amps	(A)					3.9	4.2	4.51	4.82



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400V 3~ 50Hz / 440V 3~ 60 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)			9162	11924	15196	19053	23569	28821
	Power Input	(W)			1117	1238	1357	1474	1588	1698
	Amps	(A)			2.65	2.8	2.96	3.12	3.28	3.45
105	Refrig. Capacity	(Btu/h)			7983	10518	13490	16975	21049	25793
	Power Input	(W)			1192	1331	1468	1601	1731	1855
	Amps	(A)			2.71	2.9	3.1	3.3	3.51	3.72
120	Refrig. Capacity	(Btu/h)				9078	11762	14887	18532	22780
	Power Input	(W)				1422	1588	1749	1906	2056
	Amps	(A)				3.04	3.28	3.53	3.78	4.04
140	Refrig. Capacity	(Btu/h)					9438	12107	15203	18818
	Power Input	(W)					1732	1949	2160	2364
	Amps	(A)					3.56	3.88	4.21	4.54

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			9177	11943	15221	19085	23610	28872
	Power Input	(W)			1117	1238	1357	1474	1588	1698
	Amps	(A)			2.65	2.8	2.96	3.12	3.28	3.45
105	Refrig. Capacity	(Btu/h)			7998	10538	13517	17009	21092	25848
	Power Input	(W)			1192	1331	1468	1601	1731	1855
	Amps	(A)			2.71	2.9	3.1	3.3	3.51	3.72
120	Refrig. Capacity	(Btu/h)				9099	11790	14923	18578	22839
	Power Input	(W)				1422	1588	1749	1906	2056
	Amps	(A)				3.04	3.28	3.53	3.78	4.04
140	Refrig. Capacity	(Btu/h)					9469	12147	15256	18886
	Power Input	(W)					1732	1949	2160	2364
	Amps	(A)					3.56	3.88	4.21	4.54

* 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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400V 3~ 50Hz / 440V 3~ 60 Hz

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)		6129	8266	10847	13944	17628	21970	27044
	Power Input	(W)		938	1056	1170	1279	1383	1483	1580
	Amps	(A)		2.37	2.51	2.65	2.79	2.93	3.07	3.21
105	Refrig. Capacity	(Btu/h)		5221	7219	9593	12416	15760	19700	24310
	Power Input	(W)		978	1120	1255	1385	1509	1629	1745
	Amps	(A)		2.36	2.55	2.74	2.93	3.11	3.3	3.5
120	Refrig. Capacity	(Btu/h)			6110	8290	10850	13866	17413	21570
	Power Input	(W)			1165	1331	1492	1646	1795	1939
	Amps	(A)			2.6	2.84	3.08	3.32	3.56	3.81
140	Refrig. Capacity	(Btu/h)			4573	6514	8744	11342	14386	17962
	Power Input	(W)			1175	1398	1613	1822	2024	2220
	Amps	(A)			2.69	3	3.32	3.63	3.94	4.26

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50HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)		9038	11429	14202	17346	20848	24697
	Power Input	(W)		1302	1380	1461	1546	1635	1728
	Amps	(A)		2.54	2.62	2.72	2.82	2.93	3.05
120	Refrig. Capacity	(Btu/h)			9800	12336	15203	18389	21880
	Power Input	(W)			1415	1537	1658	1778	1896
	Amps	(A)			2.65	2.81	2.97	3.14	3.32
140	Refrig. Capacity	(Btu/h)				9801	12339	15140	18193
	Power Input	(W)				1639	1808	1970	2124
	Amps	(A)				2.93	3.18	3.43	3.67



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Conditions DEW

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

60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		8985	11737	14878	18507	22725	27635	33342
	Power Input	(W)		1285	1459	1612	1757	1906	2071	2264
	Amps	(A)		2.54	2.77	3.02	3.27	3.53	3.8	4.08
105	Refrig. Capacity	(Btu/h)			10179	13117	16447	20273	24702	29847
	Power Input	(W)			1517	1712	1890	2062	2242	2441
	Amps	(A)			2.79	3.06	3.35	3.64	3.94	4.25
120	Refrig. Capacity	(Btu/h)				11235	14259	17685	21626	26202
	Power Input	(W)				1790	2007	2210	2411	2622
	Amps	(A)				3.12	3.44	3.76	4.09	4.43
140	Refrig. Capacity	(Btu/h)					11179	14072	17364	21188
	Power Input	(W)					2138	2392	2632	2870
	Amps	(A)					3.58	3.94	4.31	4.7

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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		9562	12359	15530	19174	23393	28289	33971
	Power Input	(W)		1357	1534	1689	1834	1981	2143	2332
	Amps	(A)		2.68	2.92	3.16	3.41	3.67	3.93	4.21
105	Refrig. Capacity	(Btu/h)			10715	13667	16990	20788	25171	30253
	Power Input	(W)			1600	1796	1973	2143	2318	2511
	Amps	(A)			2.94	3.21	3.49	3.78	4.07	4.37
120	Refrig. Capacity	(Btu/h)				11695	14692	18065	21929	26410
	Power Input	(W)				1882	2097	2296	2491	2695
	Amps	(A)				3.28	3.59	3.9	4.23	4.55
140	Refrig. Capacity	(Btu/h)					11533	14351	17540	21244
	Power Input	(W)					2241	2489	2720	2947
	Amps	(A)					3.75	4.1	4.46	4.82



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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			10504	13529	17050	21168	25988	31614
	Power Input	(W)			1361	1507	1647	1791	1949	2130
	Amps	(A)			2.59	2.82	3.07	3.32	3.58	3.84
105	Refrig. Capacity	(Btu/h)			9120	11963	15218	18988	23381	28504
	Power Input	(W)			1424	1609	1779	1945	2116	2302
	Amps	(A)			2.62	2.88	3.15	3.43	3.72	4.01
120	Refrig. Capacity	(Btu/h)				10317	13306	16729	20695	25316
	Power Input	(W)				1693	1903	2100	2294	2495
	Amps	(A)				2.95	3.26	3.57	3.89	4.22
140	Refrig. Capacity	(Btu/h)					10703	13668	17071	21031
	Power Input	(W)					2045	2298	2538	2773
	Amps	(A)					3.42	3.79	4.16	4.54

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			10521	13551	17078	21204	26033	31670
	Power Input	(W)			1361	1507	1647	1791	1949	2130
	Amps	(A)			2.59	2.82	3.07	3.32	3.58	3.84
105	Refrig. Capacity	(Btu/h)			9138	11986	15247	19026	23429	28564
	Power Input	(W)			1424	1609	1779	1945	2116	2302
	Amps	(A)			2.62	2.88	3.15	3.43	3.72	4.01
120	Refrig. Capacity	(Btu/h)				10340	13338	16770	20747	25381
	Power Input	(W)				1693	1903	2100	2294	2495
	Amps	(A)				2.95	3.26	3.57	3.89	4.22
140	Refrig. Capacity	(Btu/h)					10737	13714	17130	21108
	Power Input	(W)					2045	2298	2538	2773
	Amps	(A)					3.42	3.79	4.16	4.54

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60HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		7060	9477	12306	15643	19584	24226	29667
	Power Input	(W)		1129	1287	1424	1552	1680	1820	1982
	Amps	(A)		2.23	2.45	2.67	2.89	3.11	3.34	3.57
105	Refrig. Capacity	(Btu/h)		5917	8247	10911	14006	17630	21883	26865
	Power Input	(W)		1131	1337	1516	1678	1833	1992	2166
	Amps	(A)		2.21	2.46	2.71	2.97	3.23	3.5	3.77
120	Refrig. Capacity	(Btu/h)			6920	9420	12274	15582	19446	23971
	Power Input	(W)			1358	1585	1788	1976	2161	2352
	Amps	(A)			2.47	2.77	3.06	3.36	3.66	3.97
140	Refrig. Capacity	(Btu/h)			5092	7380	9916	12806	16155	20075
	Power Input	(W)			1336	1638	1906	2149	2378	2604
	Amps	(A)			2.49	2.84	3.19	3.54	3.9	4.26

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60HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)		11101	13715	16856	20507	24653	29277
	Power Input	(W)		1512	1671	1824	1970	2111	2245
	Amps	(A)		2.47	2.68	2.88	3.07	3.26	3.43
120	Refrig. Capacity	(Btu/h)			11757	14641	17976	21746	25934
	Power Input	(W)			1715	1919	2112	2294	2466
	Amps	(A)			2.7	2.97	3.23	3.49	3.74
140	Refrig. Capacity	(Btu/h)				11630	14590	17904	21556
	Power Input	(W)				2046	2302	2542	2764
	Amps	(A)				3.1	3.45	3.8	4.14