



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	4257 / 4768	14516 / 16258	68 dBA
R-404A	50HZ / 60HZ	4246 / 4756	14480 / 16218	
R-448A	50HZ / 60HZ	4261 / 4772	14529 / 16273	
R-449A	50HZ / 60HZ	4261 / 4772	14529 / 16273	
R-407C	50HZ / 60HZ	4039 / 4524	13774 / 15428	
R-22	50HZ / 60HZ	4451 / 5261	15178 / 17941	

(*) 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	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. : 68 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5036	6844	8974	11484	14431	17874	21872	26481
	Power Input	(W)	933	1067	1197	1324	1448	1569	1688	1806
	Amps	(A)	2.55	2.69	2.84	3	3.16	3.32	3.49	3.67
105	Refrig. Capacity	(Btu/h)		5723	7671	9916	12517	15532	19020	23039
	Power Input	(W)		1119	1270	1417	1559	1698	1834	1967
	Amps	(A)		2.7	2.89	3.09	3.29	3.5	3.72	3.94
120	Refrig. Capacity	(Btu/h)			6310	8293	10550	13140	16121	19551
	Power Input	(W)			1327	1504	1675	1841	2003	2161
	Amps	(A)			2.97	3.21	3.46	3.72	3.98	4.25
140	Refrig. Capacity	(Btu/h)				6021	7824	9850	12159	14808
	Power Input	(W)				1586	1810	2028	2240	2447
	Amps	(A)				3.41	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)	5389	7223	9368	11879	14811	18218	22156	26679
	Power Input	(W)	990	1127	1260	1387	1511	1631	1747	1860
	Amps	(A)	2.71	2.85	2.99	3.14	3.29	3.45	3.61	3.78
105	Refrig. Capacity	(Btu/h)		6038	7986	10213	12775	15726	19121	23016
	Power Input	(W)		1187	1339	1486	1628	1765	1896	2024
	Amps	(A)		2.86	3.05	3.24	3.44	3.64	3.85	4.05
120	Refrig. Capacity	(Btu/h)		4799	6552	8500	10696	13195	16052	19322
	Power Input	(W)		1223	1405	1581	1750	1913	2070	2221
	Amps	(A)		2.91	3.14	3.38	3.62	3.86	4.11	4.36
140	Refrig. Capacity	(Btu/h)			4546	6126	7840	9743	11888	14332
	Power Input	(W)			1449	1677	1898	2110	2315	2512
	Amps	(A)			3.31	3.6	3.9	4.2	4.51	4.82



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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)	4405	6172	8265	10750	13691	17153	21199	25895
	Power Input	(W)	873	995	1117	1238	1357	1474	1588	1698
	Amps	(A)	2.38	2.51	2.65	2.8	2.96	3.12	3.28	3.45
105	Refrig. Capacity	(Btu/h)		5181	7113	9365	11999	15081	18676	22846
	Power Input	(W)		1051	1192	1331	1468	1601	1731	1855
	Amps	(A)		2.54	2.71	2.9	3.1	3.3	3.51	3.72
120	Refrig. Capacity	(Btu/h)			5926	7954	10292	13005	16158	19814
	Power Input	(W)			1253	1422	1588	1749	1906	2056
	Amps	(A)			2.8	3.04	3.28	3.53	3.78	4.04
140	Refrig. Capacity	(Btu/h)				6045	8004	10242	12821	15808
	Power Input	(W)				1509	1732	1949	2160	2364
	Amps	(A)				3.24	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)	4405	6172	8265	10750	13691	17153	21199	25895
	Power Input	(W)	873	995	1117	1238	1357	1474	1588	1698
	Amps	(A)	2.38	2.51	2.65	2.8	2.96	3.12	3.28	3.45
105	Refrig. Capacity	(Btu/h)		5181	7113	9365	11999	15081	18676	22846
	Power Input	(W)		1051	1192	1331	1468	1601	1731	1855
	Amps	(A)		2.54	2.71	2.9	3.1	3.3	3.51	3.72
120	Refrig. Capacity	(Btu/h)			5926	7954	10292	13005	16158	19814
	Power Input	(W)			1253	1422	1588	1749	1906	2056
	Amps	(A)			2.8	3.04	3.28	3.53	3.78	4.04
140	Refrig. Capacity	(Btu/h)				6045	8004	10242	12821	15808
	Power Input	(W)				1509	1732	1949	2160	2364
	Amps	(A)				3.24	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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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)	3970	5570	7509	9850	12655	15988	19912	24491
	Power Input	(W)	813	938	1056	1170	1279	1383	1483	1580
	Amps	(A)	2.22	2.37	2.51	2.65	2.79	2.93	3.07	3.21
105	Refrig. Capacity	(Btu/h)		4693	6486	8614	11140	14128	17640	21740
	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)		3758	5415	7340	9597	12249	15358	18989
	Power Input	(W)		991	1165	1331	1492	1646	1795	1939
	Amps	(A)		2.36	2.6	2.84	3.08	3.32	3.56	3.81
140	Refrig. Capacity	(Btu/h)			3952	5622	7534	9753	12341	15361
	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)	6472	8303	10493	13029	15900	19092	22591
	Power Input	(W)	1229	1302	1380	1461	1546	1635	1728
	Amps	(A)	2.46	2.54	2.62	2.72	2.82	2.93	3.05
120	Refrig. Capacity	(Btu/h)	5252	6921	8909	11205	13795	16664	19799
	Power Input	(W)	1168	1292	1415	1537	1658	1778	1896
	Amps	(A)	2.34	2.49	2.65	2.81	2.97	3.14	3.32
140	Refrig. Capacity	(Btu/h)		4983	6739	8749	10998	13472	16154
	Power Input	(W)		1278	1462	1639	1808	1970	2124
	Amps	(A)		2.44	2.68	2.93	3.18	3.43	3.67



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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5723	7881	10288	13030	16192	19859	24115	29047
	Power Input	(W)	1079	1285	1459	1612	1757	1906	2071	2264
	Amps	(A)	2.31	2.54	2.77	3.02	3.27	3.53	3.8	4.08
105	Refrig. Capacity	(Btu/h)		6488	8762	11277	14120	17375	21126	25460
	Power Input	(W)		1293	1517	1712	1890	2062	2242	2441
	Amps	(A)		2.52	2.79	3.06	3.35	3.64	3.94	4.25
120	Refrig. Capacity	(Btu/h)			7146	9424	11936	14767	18003	21727
	Power Input	(W)			1547	1790	2007	2210	2411	2622
	Amps	(A)			2.82	3.12	3.44	3.76	4.09	4.43
140	Refrig. Capacity	(Btu/h)				6820	8874	11123	13653	16548
	Power Input	(W)				1859	2138	2392	2632	2870
	Amps	(A)				3.22	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)	6128	8316	10739	13478	16618	20240	24428	29264
	Power Input	(W)	1146	1357	1534	1689	1834	1981	2143	2332
	Amps	(A)	2.45	2.68	2.92	3.16	3.41	3.67	3.93	4.21
105	Refrig. Capacity	(Btu/h)		6846	9121	11616	14411	17591	21238	25435
	Power Input	(W)		1372	1600	1796	1973	2143	2318	2511
	Amps	(A)		2.68	2.94	3.21	3.49	3.78	4.07	4.37
120	Refrig. Capacity	(Btu/h)		5301	7420	9659	12101	14828	17925	21472
	Power Input	(W)		1353	1638	1882	2097	2296	2491	2695
	Amps	(A)		2.69	2.98	3.28	3.59	3.9	4.23	4.55
140	Refrig. Capacity	(Btu/h)			5056	6939	8893	11003	13349	16015
	Power Input	(W)			1647	1965	2241	2489	2720	2947
	Amps	(A)			3.07	3.4	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)	5001	7107	9476	12198	15362	19058	23375	28404
	Power Input	(W)	1010	1198	1361	1507	1647	1791	1949	2130
	Amps	(A)	2.16	2.37	2.59	2.82	3.07	3.32	3.58	3.84
105	Refrig. Capacity	(Btu/h)		5872	8126	10651	13536	16870	20744	25247
	Power Input	(W)		1215	1424	1609	1779	1945	2116	2302
	Amps	(A)		2.37	2.62	2.88	3.15	3.43	3.72	4.01
120	Refrig. Capacity	(Btu/h)			6713	9039	11643	14615	18044	22019
	Power Input	(W)			1460	1693	1903	2100	2294	2495
	Amps	(A)			2.66	2.95	3.26	3.57	3.89	4.22
140	Refrig. Capacity	(Btu/h)				6849	9077	11563	14396	17667
	Power Input	(W)				1768	2045	2298	2538	2773
	Amps	(A)				3.06	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)	5001	7107	9476	12198	15362	19058	23375	28404
	Power Input	(W)	1010	1198	1361	1507	1647	1791	1949	2130
	Amps	(A)	2.16	2.37	2.59	2.82	3.07	3.32	3.58	3.84
105	Refrig. Capacity	(Btu/h)		5872	8126	10651	13536	16870	20744	25247
	Power Input	(W)		1215	1424	1609	1779	1945	2116	2302
	Amps	(A)		2.37	2.62	2.88	3.15	3.43	3.72	4.01
120	Refrig. Capacity	(Btu/h)			6713	9039	11643	14615	18044	22019
	Power Input	(W)			1460	1693	1903	2100	2294	2495
	Amps	(A)			2.66	2.95	3.26	3.57	3.89	4.22
140	Refrig. Capacity	(Btu/h)				6849	9077	11563	14396	17667
	Power Input	(W)				1768	2045	2298	2538	2773
	Amps	(A)				3.06	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)	4509	6416	8610	11175	14197	17762	21956	26865
	Power Input	(W)	941	1129	1287	1424	1552	1680	1820	1982
	Amps	(A)	2.02	2.23	2.45	2.67	2.89	3.11	3.34	3.57
105	Refrig. Capacity	(Btu/h)		5319	7410	9797	12567	15804	19595	24025
	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)		4146	6133	8341	10857	13765	17151	21102
	Power Input	(W)		1095	1358	1585	1788	1976	2161	2352
	Amps	(A)		2.18	2.47	2.77	3.06	3.36	3.66	3.97
140	Refrig. Capacity	(Btu/h)			4400	6369	8544	11012	13858	17168
	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)	8298	10198	12592	15464	18798	22576	26781
	Power Input	(W)	1347	1512	1671	1824	1970	2111	2245
	Amps	(A)	2.26	2.47	2.68	2.88	3.07	3.26	3.43
120	Refrig. Capacity	(Btu/h)	6746	8500	10689	13298	16310	19706	23466
	Power Input	(W)	1274	1500	1715	1919	2112	2294	2466
	Amps	(A)	2.15	2.43	2.7	2.97	3.23	3.49	3.74
140	Refrig. Capacity	(Btu/h)		6122	8082	10382	13005	15931	19140
	Power Input	(W)		1482	1773	2046	2302	2542	2764
	Amps	(A)		2.37	2.74	3.1	3.45	3.8	4.14