



tecumseh

TAJ9513Z

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

Compressor

AJK513Z-TZ1A

M-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	1707 / 2033	5821 / 6934	62 dBA
R-404A	50HZ / 60HZ	1756 / 2091	5987 / 7132	
R-448A	50HZ / 60HZ	1620 / 1930	5526 / 6583	
R-449A	50HZ / 60HZ	1620 / 1930	5526 / 6583	
R-407C	50HZ / 60HZ	1492 / 1777	5087 / 6060	
R-22	50HZ / 60HZ	1648 / 1964	5621 / 6696	

(*) Operating conditions EN12900 : Dew / T°Cond. 45°C / T°Evap -10°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	19.4 kg (43 lb)
Length	246 mm (9.7 in)
Width	178 mm (7 in)
Height	280 mm (11 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	24.2
Horse Power	1 hp
Compressor Cooling	Fan
Evaporating Temp. Range	-23.3°C to 12.8°C (-10°F to 55°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E. / 32 cSt@40°C
Oil Charge (cc)	475

Electrical

Motor Type	3PH
Main Winding (Ohm)	14.8
Current RLA 50Hz (A)	2.8
Current RLA 60Hz (A)	2.8
Current MCC (A)	4.5
Current LRA (A)	17.3
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. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1068	1419	1838	2333	2915	3594	4379	5280	6307
	Power Input (W)	623	696	768	836	899	953	997	1028	1043
	Amps (A)	1.39	1.49	1.58	1.66	1.73	1.8	1.86	1.92	1.97
40	Refrig. Capacity (Watt)	805	1122	1489	1916	2412	2988	3653	4418	5291
	Power Input (W)	650	736	825	914	1001	1083	1159	1224	1279
	Amps (A)	1.37	1.51	1.64	1.76	1.87	1.98	2.08	2.18	2.27
50	Refrig. Capacity (Watt)		823	1139	1498	1910	2384	2930	3559	4279
	Power Input (W)		765	869	977	1085	1193	1298	1396	1487
	Amps (A)		1.51	1.68	1.84	1.99	2.14	2.28	2.42	2.55
60	Refrig. Capacity (Watt)			788	1080	1408	1781	2209	2703	3271
	Power Input (W)			906	1029	1158	1289	1420	1549	1674
	Amps (A)			1.69	1.89	2.09	2.28	2.46	2.64	2.81

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1139	1497	1920	2418	3000	3676	4454	5343	6354
	Power Input (W)	660	734	807	876	939	992	1034	1062	1073
	Amps (A)	1.47	1.57	1.66	1.74	1.81	1.87	1.93	1.98	2.02
40	Refrig. Capacity (Watt)	861	1182	1551	1976	2467	3034	3685	4430	5277
	Power Input (W)	693	780	870	960	1046	1127	1200	1263	1313
	Amps (A)	1.46	1.6	1.73	1.84	1.96	2.06	2.16	2.25	2.33
50	Refrig. Capacity (Watt)		867	1182	1536	1938	2397	2923	3524	4210
	Power Input (W)		817	921	1028	1136	1242	1344	1439	1524
	Amps (A)		1.61	1.78	1.93	2.08	2.23	2.36	2.49	2.61
60	Refrig. Capacity (Watt)			817	1101	1415	1768	2169	2628	3154
	Power Input (W)			967	1089	1216	1344	1472	1596	1714
	Amps (A)			1.8	2	2.19	2.38	2.55	2.72	2.88



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Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	941	1282	1690	2177	2753	3429	4217	5127	6169
	Power Input (W)	581	648	715	781	842	895	938	968	981
	Amps (A)	1.3	1.38	1.47	1.55	1.62	1.69	1.75	1.8	1.85
40	Refrig. Capacity (Watt)	710	1019	1380	1805	2304	2888	3568	4355	5261
	Power Input (W)	612	691	774	859	942	1021	1093	1155	1205
	Amps (A)	1.29	1.42	1.53	1.65	1.76	1.87	1.96	2.05	2.13
50	Refrig. Capacity (Watt)		756	1073	1438	1863	2357	2933	3600	4371
	Power Input (W)		722	821	924	1029	1134	1236	1331	1417
	Amps (A)		1.42	1.58	1.74	1.89	2.03	2.17	2.3	2.43
60	Refrig. Capacity (Watt)			774	1082	1435	1843	2317	2868	3506
	Power Input (W)			858	979	1107	1237	1368	1495	1617
	Amps (A)			1.6	1.8	2	2.19	2.37	2.55	2.72

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	941	1282	1690	2177	2753	3429	4217	5127	6169
	Power Input (W)	581	648	715	781	842	895	938	968	981
	Amps (A)	1.3	1.38	1.47	1.55	1.62	1.69	1.75	1.8	1.85
40	Refrig. Capacity (Watt)	710	1019	1380	1805	2304	2888	3568	4355	5261
	Power Input (W)	612	691	774	859	942	1021	1093	1155	1205
	Amps (A)	1.29	1.42	1.53	1.65	1.76	1.87	1.96	2.05	2.13
50	Refrig. Capacity (Watt)		756	1073	1438	1863	2357	2933	3600	4371
	Power Input (W)		722	821	924	1029	1134	1236	1331	1417
	Amps (A)		1.42	1.58	1.74	1.89	2.03	2.17	2.3	2.43
60	Refrig. Capacity (Watt)			774	1082	1435	1843	2317	2868	3506
	Power Input (W)			858	979	1107	1237	1368	1495	1617
	Amps (A)			1.6	1.8	2	2.19	2.37	2.55	2.72

* 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. : 20 °C
Subcooling : 0 K

50HZ R-407C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)			1534	1991	2537	3184	3943	4825	5840
	Power Input (W)			677	738	792	839	875	898	908
	Amps (A)			1.39	1.46	1.53	1.58	1.63	1.67	1.71
40	Refrig. Capacity (Watt)				1659	2135	2698	3358	4128	5017
	Power Input (W)				810	888	962	1029	1087	1133
	Amps (A)				1.56	1.66	1.76	1.85	1.93	2.01
50	Refrig. Capacity (Watt)					1734	2215	2780	3440	4206
	Power Input (W)					966	1066	1163	1253	1336
	Amps (A)					1.77	1.91	2.04	2.17	2.29
60	Refrig. Capacity (Watt)						1749	2221	2774	3419
	Power Input (W)						1156	1281	1403	1520
	Amps (A)						2.04	2.22	2.39	2.55

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50HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	1070	1406	1804	2273	2822	3460	4196	5038
	Power Input (W)	720	799	878	954	1025	1091	1147	1194
	Amps (A)	1.48	1.58	1.69	1.78	1.87	1.96	2.04	2.12
50	Refrig. Capacity (Watt)	848	1145	1494	1903	2382	2939	3583	4323
	Power Input (W)	763	855	951	1048	1144	1237	1325	1406
	Amps (A)	1.5	1.65	1.79	1.92	2.05	2.17	2.29	2.41
60	Refrig. Capacity (Watt)		893	1195	1547	1958	2437	2992	3632
	Power Input (W)		911	1022	1137	1255	1373	1490	1604
	Amps (A)		1.7	1.88	2.05	2.22	2.38	2.54	2.69



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Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

60HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1281	1694	2178	2742	3398	4156	5028	6025	7157
	Power Input (W)	757	856	952	1044	1133	1220	1305	1388	1469
	Amps (A)	1.37	1.48	1.59	1.69	1.78	1.87	1.95	2.03	2.1
40	Refrig. Capacity (Watt)	970	1348	1780	2274	2842	3495	4243	5099	6072
	Power Input (W)	768	896	1019	1137	1250	1359	1464	1566	1664
	Amps (A)	1.37	1.53	1.68	1.82	1.96	2.1	2.23	2.35	2.47
50	Refrig. Capacity (Watt)		996	1371	1791	2267	2810	3431	4141	4951
	Power Input (W)		898	1056	1208	1353	1492	1626	1754	1877
	Amps (A)		1.52	1.72	1.91	2.1	2.28	2.45	2.62	2.79
60	Refrig. Capacity (Watt)			961	1303	1683	2112	2601	3162	3805
	Power Input (W)			1045	1239	1424	1602	1773	1936	2093
	Amps (A)			1.7	1.94	2.17	2.4	2.62	2.84	3.06

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60HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1366	1786	2275	2841	3497	4251	5114	6097	7211
	Power Input (W)	802	903	1001	1094	1184	1270	1353	1433	1511
	Amps (A)	1.45	1.56	1.67	1.77	1.86	1.94	2.02	2.1	2.16
40	Refrig. Capacity (Watt)	1037	1420	1853	2345	2906	3548	4280	5112	6056
	Power Input (W)	820	950	1075	1193	1306	1414	1517	1615	1708
	Amps (A)	1.46	1.62	1.77	1.91	2.05	2.18	2.31	2.43	2.54
50	Refrig. Capacity (Watt)		1050	1423	1836	2301	2826	3423	4101	4871
	Power Input (W)		959	1119	1271	1416	1553	1684	1808	1925
	Amps (A)		1.62	1.82	2.01	2.19	2.37	2.54	2.7	2.86
60	Refrig. Capacity (Watt)			996	1328	1691	2097	2555	3075	3669
	Power Input (W)			1118	1311	1495	1670	1836	1994	2143
	Amps (A)			1.81	2.05	2.28	2.5	2.72	2.93	3.13



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Subcooling : 0 K

60HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1129	1530	2003	2558	3209	3966	4843	5850	7001
	Power Input (W)	706	797	887	975	1062	1146	1228	1307	1382
	Amps (A)	1.28	1.38	1.48	1.57	1.67	1.75	1.84	1.91	1.98
40	Refrig. Capacity (Watt)	855	1224	1649	2142	2714	3378	4144	5027	6037
	Power Input (W)	725	841	956	1067	1176	1280	1381	1477	1568
	Amps (A)	1.29	1.43	1.58	1.71	1.85	1.98	2.1	2.22	2.33
50	Refrig. Capacity (Watt)		915	1291	1719	2211	2779	3434	4190	5057
	Power Input (W)		848	998	1143	1283	1418	1548	1672	1789
	Amps (A)		1.44	1.62	1.81	1.99	2.16	2.33	2.5	2.66
60	Refrig. Capacity (Watt)			944	1305	1716	2186	2729	3356	4079
	Power Input (W)			990	1179	1362	1538	1707	1868	2022
	Amps (A)			1.61	1.84	2.07	2.3	2.53	2.74	2.95

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60HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1129	1530	2003	2558	3209	3966	4843	5850	7001
	Power Input (W)	706	797	887	975	1062	1146	1228	1307	1382
	Amps (A)	1.28	1.38	1.48	1.57	1.67	1.75	1.84	1.91	1.98
40	Refrig. Capacity (Watt)	855	1224	1649	2142	2714	3378	4144	5027	6037
	Power Input (W)	725	841	956	1067	1176	1280	1381	1477	1568
	Amps (A)	1.29	1.43	1.58	1.71	1.85	1.98	2.1	2.22	2.33
50	Refrig. Capacity (Watt)		915	1291	1719	2211	2779	3434	4190	5057
	Power Input (W)		848	998	1143	1283	1418	1548	1672	1789
	Amps (A)		1.44	1.62	1.81	1.99	2.16	2.33	2.5	2.66
60	Refrig. Capacity (Watt)			944	1305	1716	2186	2729	3356	4079
	Power Input (W)			990	1179	1362	1538	1707	1868	2022
	Amps (A)			1.61	1.84	2.07	2.3	2.53	2.74	2.95

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Conditions DEW

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Subcooling : 0 K

60HZ R-407C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)			1817	2339	2957	3683	4528	5506	6627
	Power Input (W)			839	921	999	1074	1145	1213	1278
	Amps (A)			1.4	1.49	1.57	1.64	1.71	1.77	1.83
40	Refrig. Capacity (Watt)				1968	2515	3155	3901	4764	5757
	Power Input (W)				1007	1109	1207	1300	1389	1474
	Amps (A)				1.62	1.74	1.86	1.98	2.09	2.19
50	Refrig. Capacity (Watt)					2059	2612	3256	4004	4867
	Power Input (W)					1204	1334	1457	1575	1687
	Amps (A)					1.86	2.03	2.2	2.36	2.51
60	Refrig. Capacity (Watt)						2075	2616	3246	3977
	Power Input (W)						1436	1598	1753	1901
	Amps (A)						2.15	2.36	2.57	2.78

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60HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	1285	1680	2141	2678	3300	4019	4843	5782
	Power Input (W)	877	987	1091	1191	1287	1378	1467	1553
	Amps (A)	1.5	1.63	1.75	1.87	1.99	2.1	2.2	2.31
50	Refrig. Capacity (Watt)	1026	1379	1787	2260	2808	3442	4170	5002
	Power Input (W)	897	1040	1176	1306	1430	1550	1664	1775
	Amps (A)	1.52	1.69	1.86	2.02	2.18	2.34	2.49	2.64
60	Refrig. Capacity (Watt)		1087	1441	1849	2322	2869	3501	4225
	Power Input (W)		1055	1231	1398	1559	1714	1862	2006
	Amps (A)		1.71	1.92	2.13	2.34	2.54	2.73	2.93