



tecumseh

TAJ4517Z

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

Compressor

AJ4517Z-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	4043 / 4686	13786 / 15980	62 dBA
R-404A	50HZ / 60HZ	4088 / 4739	13940 / 16158	
R-448A	50HZ / 60HZ	3913 / 4535	13342 / 15465	
R-449A	50HZ / 60HZ	3924 / 4548	13381 / 15509	
R-407C	50HZ / 60HZ	3688 / 4275	12576 / 14577	
R-22	50HZ / 60HZ	3808 / 4414	12984 / 15050	

(*) 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	19.9 kg (44 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)	26
Horse Power	1
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)	11
Current RLA 50Hz (A)	3
Current RLA 60Hz (A)	3
Current MCC (A)	4.8
Current LRA (A)	18
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)		5986	8001	10361	13127	16361	20124	24481
	Power Input	(W)		838	935	1022	1103	1181	1258	1339
	Amps	(A)		1.99	2.1	2.21	2.31	2.41	2.5	2.59
105	Refrig. Capacity	(Btu/h)			6837	9005	11517	14438	17831	21767
	Power Input	(W)			988	1100	1203	1300	1394	1488
	Amps	(A)			2.16	2.31	2.46	2.6	2.73	2.86
120	Refrig. Capacity	(Btu/h)				7580	9825	12419	15430	18934
	Power Input	(W)				1166	1297	1420	1536	1650
	Amps	(A)				2.39	2.58	2.76	2.94	3.11
140	Refrig. Capacity	(Btu/h)					7490	9634	12125	15046
	Power Input	(W)					1403	1569	1725	1875
	Amps	(A)					2.71	2.94	3.18	3.41

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		6371	8425	10815	13600	16841	20600	24942
	Power Input	(W)		885	983	1071	1151	1227	1302	1379
	Amps	(A)		2.1	2.21	2.32	2.41	2.5	2.59	2.67
105	Refrig. Capacity	(Btu/h)			7198	9383	11897	14804	18170	22064
	Power Input	(W)			1042	1154	1256	1351	1441	1531
	Amps	(A)			2.28	2.43	2.57	2.7	2.82	2.94
120	Refrig. Capacity	(Btu/h)				7890	10123	12685	15647	19085
	Power Input	(W)				1226	1356	1475	1588	1696
	Amps	(A)				2.52	2.7	2.87	3.03	3.19
140	Refrig. Capacity	(Btu/h)					7728	9825	12247	15086
	Power Input	(W)					1470	1632	1783	1925
	Amps	(A)					2.84	3.06	3.28	3.5



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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)			7160	9421	12093	15239	18924	23212
	Power Input	(W)			872	955	1034	1109	1184	1259
	Amps	(A)			1.96	2.07	2.17	2.26	2.35	2.43
105	Refrig. Capacity	(Btu/h)			6126	8212	10656	13523	16878	20789
	Power Input	(W)			927	1034	1132	1226	1315	1403
	Amps	(A)			2.03	2.17	2.31	2.45	2.58	2.7
120	Refrig. Capacity	(Btu/h)				6960	9169	11748	14766	18294
	Power Input	(W)				1103	1230	1349	1462	1570
	Amps	(A)				2.26	2.45	2.62	2.79	2.96
140	Refrig. Capacity	(Btu/h)					7173	9360	11922	14934
	Power Input	(W)					1342	1507	1663	1811
	Amps	(A)					2.59	2.83	3.06	3.29

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			7171	9436	12113	15265	18957	23253
	Power Input	(W)			872	955	1034	1109	1184	1259
	Amps	(A)			1.96	2.07	2.17	2.26	2.35	2.43
105	Refrig. Capacity	(Btu/h)			6137	8228	10677	13550	16912	20833
	Power Input	(W)			927	1034	1132	1226	1315	1403
	Amps	(A)			2.03	2.17	2.31	2.45	2.58	2.7
120	Refrig. Capacity	(Btu/h)				6976	9190	11776	14803	18341
	Power Input	(W)				1103	1230	1349	1462	1570
	Amps	(A)				2.26	2.45	2.62	2.79	2.96
140	Refrig. Capacity	(Btu/h)					7196	9392	11963	14988
	Power Input	(W)					1342	1507	1663	1811
	Amps	(A)					2.59	2.83	3.06	3.29

* 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

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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)		4703	6460	8571	11097	14099	17640	21781
	Power Input	(W)		736	825	903	974	1041	1106	1172
	Amps	(A)		1.75	1.86	1.95	2.04	2.12	2.2	2.26
105	Refrig. Capacity	(Btu/h)		3893	5539	7490	9808	12555	15795	19593
	Power Input	(W)		755	871	974	1068	1155	1238	1320
	Amps	(A)		1.76	1.91	2.05	2.18	2.31	2.42	2.54
120	Refrig. Capacity	(Btu/h)			4571	6355	8457	10942	13875	17323
	Power Input	(W)			898	1033	1156	1269	1377	1480
	Amps	(A)			1.93	2.12	2.3	2.47	2.63	2.79
140	Refrig. Capacity	(Btu/h)			3291	4841	6645	8769	11281	14254
	Power Input	(W)			892	1079	1250	1409	1559	1701
	Amps	(A)			1.92	2.17	2.41	2.65	2.87	3.09

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50HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)		6072	7969	10195	12800	15836	19352
	Power Input	(W)		957	1056	1145	1229	1310	1392
	Amps	(A)		2.1	2.22	2.34	2.45	2.56	2.67
120	Refrig. Capacity	(Btu/h)			6928	8969	11354	14133	17361
	Power Input	(W)			1132	1248	1356	1459	1560
	Amps	(A)			2.32	2.48	2.64	2.79	2.94
140	Refrig. Capacity	(Btu/h)				7325	9407	11839	14674
	Power Input	(W)				1375	1523	1664	1800
	Amps	(A)				2.65	2.86	3.07	3.27



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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)		7138	9442	12078	15126	18663	22772	27534
	Power Input	(W)		1000	1131	1245	1353	1464	1587	1731
	Amps	(A)		1.78	1.92	2.05	2.2	2.35	2.5	2.66
105	Refrig. Capacity	(Btu/h)			8137	10611	13420	16646	20372	24687
	Power Input	(W)			1178	1328	1463	1592	1724	1869
	Amps	(A)			1.96	2.14	2.32	2.5	2.69	2.89
120	Refrig. Capacity	(Btu/h)				9003	11559	14457	17787	21642
	Power Input	(W)				1387	1561	1721	1875	2034
	Amps	(A)				2.21	2.42	2.65	2.87	3.1
140	Refrig. Capacity	(Btu/h)					8891	11339	14126	17360
	Power Input	(W)					1654	1874	2078	2274
	Amps	(A)					2.54	2.81	3.08	3.36

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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		7597	9942	12608	15671	19211	23311	28053
	Power Input	(W)		1056	1189	1305	1412	1522	1642	1783
	Amps	(A)		1.88	2.01	2.15	2.29	2.44	2.59	2.74
105	Refrig. Capacity	(Btu/h)			8565	11056	13863	17069	20758	25024
	Power Input	(W)			1243	1393	1527	1654	1783	1923
	Amps	(A)			2.07	2.25	2.42	2.6	2.79	2.97
120	Refrig. Capacity	(Btu/h)				9371	11910	14768	18036	21814
	Power Input	(W)				1459	1632	1788	1938	2091
	Amps	(A)				2.32	2.53	2.75	2.97	3.19
140	Refrig. Capacity	(Btu/h)					9173	11564	14269	17405
	Power Input	(W)					1733	1949	2147	2335
	Amps	(A)					2.66	2.92	3.19	3.45



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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			8450	10983	13934	17384	21414	26106
	Power Input	(W)			1055	1164	1268	1375	1493	1628
	Amps	(A)			1.79	1.92	2.06	2.21	2.35	2.5
105	Refrig. Capacity	(Btu/h)			7291	9678	12418	15591	19283	23577
	Power Input	(W)			1106	1248	1377	1501	1627	1763
	Amps	(A)			1.84	2.01	2.18	2.36	2.54	2.73
120	Refrig. Capacity	(Btu/h)				8267	10787	13676	17021	20911
	Power Input	(W)				1312	1480	1635	1785	1936
	Amps	(A)				2.09	2.3	2.51	2.73	2.95
140	Refrig. Capacity	(Btu/h)					8513	11014	13888	17231
	Power Input	(W)					1582	1800	2003	2197
	Amps	(A)					2.42	2.7	2.97	3.25

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			8464	11001	13957	17414	21452	26153
	Power Input	(W)			1055	1164	1268	1375	1493	1628
	Amps	(A)			1.79	1.92	2.06	2.21	2.35	2.5
105	Refrig. Capacity	(Btu/h)			7305	9697	12442	15622	19322	23627
	Power Input	(W)			1106	1248	1377	1501	1627	1763
	Amps	(A)			1.84	2.01	2.18	2.36	2.54	2.73
120	Refrig. Capacity	(Btu/h)				8286	10812	13709	17063	20964
	Power Input	(W)				1312	1480	1635	1785	1936
	Amps	(A)				2.09	2.3	2.51	2.73	2.95
140	Refrig. Capacity	(Btu/h)					8541	11051	13936	17294
	Power Input	(W)					1582	1800	2003	2197
	Amps	(A)					2.42	2.7	2.97	3.25

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60HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		5609	7624	9991	12785	16083	19962	24498
	Power Input	(W)		879	997	1100	1195	1290	1394	1515
	Amps	(A)		1.56	1.69	1.82	1.94	2.07	2.2	2.33
105	Refrig. Capacity	(Btu/h)		4649	6592	8827	11429	14476	18047	22222
	Power Input	(W)		878	1039	1176	1299	1415	1532	1659
	Amps	(A)		1.57	1.73	1.9	2.06	2.23	2.39	2.56
120	Refrig. Capacity	(Btu/h)			5455	7549	9950	12738	15994	19800
	Power Input	(W)			1044	1228	1391	1539	1681	1825
	Amps	(A)			1.75	1.96	2.16	2.37	2.57	2.78
140	Refrig. Capacity	(Btu/h)			3866	5764	7887	10319	13143	16447
	Power Input	(W)			975	1240	1474	1683	1877	2063
	Amps	(A)			1.74	2	2.26	2.52	2.79	3.05

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60HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)		7226	9391	11881	14759	18093	21948
	Power Input	(W)		1142	1275	1393	1505	1621	1749
	Amps	(A)		1.9	2.05	2.21	2.37	2.53	2.7
120	Refrig. Capacity	(Btu/h)			8228	10553	13218	16293	19843
	Power Input	(W)			1347	1502	1644	1781	1923
	Amps	(A)			2.14	2.33	2.53	2.73	2.93
140	Refrig. Capacity	(Btu/h)				8693	11070	13792	16931
	Power Input	(W)				1620	1819	2004	2183
	Amps	(A)				2.48	2.73	2.97	3.23