



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	3375 / 3910	11508 / 13332	62 dBA
R-404A	50HZ / 60HZ	3366 / 3900	11480 / 13299	
R-448A	50HZ / 60HZ	3378 / 3913	11519 / 13344	
R-449A	50HZ / 60HZ	3378 / 3913	11519 / 13344	
R-407C	50HZ / 60HZ	3202 / 3710	10920 / 12651	
R-22	50HZ / 60HZ	3385 / 3922	11544 / 13374	

(*) 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	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. : 68 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3737	5251	7013	9074	11485	14297	17561	21327
	Power Input	(W)	729	838	935	1022	1103	1181	1258	1339
	Amps	(A)	1.87	1.99	2.1	2.21	2.31	2.41	2.5	2.59
105	Refrig. Capacity	(Btu/h)		4267	5885	7742	9888	12374	15250	18568
	Power Input	(W)		864	988	1100	1203	1300	1394	1488
	Amps	(A)		2.01	2.16	2.31	2.46	2.6	2.73	2.86
120	Refrig. Capacity	(Btu/h)			4720	6358	8224	10370	12845	15701
	Power Input	(W)			1023	1166	1297	1420	1536	1650
	Amps	(A)			2.2	2.39	2.58	2.76	2.94	3.11
140	Refrig. Capacity	(Btu/h)				4474	5946	7616	9534	11751
	Power Input	(W)				1224	1403	1569	1725	1875
	Amps	(A)				2.46	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)	4000	5541	7320	9386	11787	14572	17789	21486
	Power Input	(W)	774	885	983	1071	1151	1227	1302	1379
	Amps	(A)	1.99	2.1	2.21	2.32	2.41	2.5	2.59	2.67
105	Refrig. Capacity	(Btu/h)		4501	6127	7974	10092	12528	15331	18550
	Power Input	(W)		916	1042	1154	1256	1351	1441	1531
	Amps	(A)		2.13	2.28	2.43	2.57	2.7	2.82	2.94
120	Refrig. Capacity	(Btu/h)		3441	4901	6517	8338	10412	12789	15517
	Power Input	(W)		924	1083	1226	1356	1475	1588	1696
	Amps	(A)		2.14	2.33	2.52	2.7	2.87	3.03	3.19
140	Refrig. Capacity	(Btu/h)			3265	4553	5959	7532	9321	11373
	Power Input	(W)			1101	1294	1470	1632	1783	1925
	Amps	(A)			2.36	2.6	2.84	3.06	3.28	3.5



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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)	3267	4735	6459	8494	10896	13720	17021	20855
	Power Input	(W)	682	782	872	955	1034	1109	1184	1259
	Amps	(A)	1.75	1.86	1.96	2.07	2.17	2.26	2.35	2.43
105	Refrig. Capacity	(Btu/h)		3863	5458	7312	9479	12014	14974	18414
	Power Input	(W)		811	927	1034	1132	1226	1315	1403
	Amps	(A)		1.89	2.03	2.17	2.31	2.45	2.58	2.7
120	Refrig. Capacity	(Btu/h)			4433	6098	8022	10263	12874	15912
	Power Input	(W)			966	1103	1230	1349	1462	1570
	Amps	(A)			2.08	2.26	2.45	2.62	2.79	2.96
140	Refrig. Capacity	(Btu/h)				4492	6083	7918	10054	12545
	Power Input	(W)				1165	1342	1507	1663	1811
	Amps	(A)				2.34	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)	3267	4735	6459	8494	10896	13720	17021	20855
	Power Input	(W)	682	782	872	955	1034	1109	1184	1259
	Amps	(A)	1.75	1.86	1.96	2.07	2.17	2.26	2.35	2.43
105	Refrig. Capacity	(Btu/h)		3863	5458	7312	9479	12014	14974	18414
	Power Input	(W)		811	927	1034	1132	1226	1315	1403
	Amps	(A)		1.89	2.03	2.17	2.31	2.45	2.58	2.7
120	Refrig. Capacity	(Btu/h)			4433	6098	8022	10263	12874	15912
	Power Input	(W)			966	1103	1230	1349	1462	1570
	Amps	(A)			2.08	2.26	2.45	2.62	2.79	2.96
140	Refrig. Capacity	(Btu/h)				4492	6083	7918	10054	12545
	Power Input	(W)				1165	1342	1507	1663	1811
	Amps	(A)				2.34	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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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)	2944	4274	5869	7783	10071	12788	15987	19724
	Power Input	(W)	636	736	825	903	974	1041	1106	1172
	Amps	(A)	1.63	1.75	1.86	1.95	2.04	2.12	2.2	2.26
105	Refrig. Capacity	(Btu/h)		3499	4977	6726	8800	11255	14144	17522
	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)		2698	4051	5627	7481	9666	12237	15250
	Power Input	(W)		748	898	1033	1156	1269	1377	1480
	Amps	(A)		1.74	1.93	2.12	2.3	2.47	2.63	2.79
140	Refrig. Capacity	(Btu/h)			2844	4178	5726	7541	9677	12190
	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)	4087	5570	7308	9345	11727	14500	17709
	Power Input	(W)	847	957	1056	1145	1229	1310	1392
	Amps	(A)	1.97	2.1	2.22	2.34	2.45	2.56	2.67
120	Refrig. Capacity	(Btu/h)	3334	4704	6290	8139	10296	12806	15715
	Power Input	(W)	863	1005	1132	1248	1356	1459	1560
	Amps	(A)	2	2.16	2.32	2.48	2.64	2.79	2.94
140	Refrig. Capacity	(Btu/h)		3566	4943	6533	8381	10533	13034
	Power Input	(W)		1039	1214	1375	1523	1664	1800
	Amps	(A)		2.23	2.44	2.65	2.86	3.07	3.27



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Subcooling : 0 °F

60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4466	6261	8276	10578	13234	16309	19871	23987
	Power Input	(W)	844	1000	1131	1245	1353	1464	1587	1731
	Amps	(A)	1.65	1.78	1.92	2.05	2.2	2.35	2.5	2.66
105	Refrig. Capacity	(Btu/h)		5098	7004	9123	11522	14266	17423	21059
	Power Input	(W)		1004	1178	1328	1463	1592	1724	1869
	Amps	(A)		1.79	1.96	2.14	2.32	2.5	2.69	2.89
120	Refrig. Capacity	(Btu/h)			5633	7552	9676	12072	14806	17946
	Power Input	(W)			1190	1387	1561	1721	1875	2034
	Amps	(A)			2	2.21	2.42	2.65	2.87	3.1
140	Refrig. Capacity	(Btu/h)				5326	7058	8963	11108	13558
	Power Input	(W)				1407	1654	1874	2078	2274
	Amps	(A)				2.27	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)	4782	6607	8639	10942	13582	16623	20129	24166
	Power Input	(W)	897	1056	1189	1305	1412	1522	1642	1783
	Amps	(A)	1.75	1.88	2.01	2.15	2.29	2.44	2.59	2.74
105	Refrig. Capacity	(Btu/h)		5379	7291	9397	11759	14444	17515	21038
	Power Input	(W)		1065	1243	1393	1527	1654	1783	1923
	Amps	(A)		1.9	2.07	2.25	2.42	2.6	2.79	2.97
120	Refrig. Capacity	(Btu/h)		4071	5848	7740	9809	12122	14743	17736
	Power Input	(W)		1025	1260	1459	1632	1788	1938	2091
	Amps	(A)		1.91	2.11	2.32	2.53	2.75	2.97	3.19
140	Refrig. Capacity	(Btu/h)			3839	5420	7074	8865	10860	13121
	Power Input	(W)			1205	1488	1733	1949	2147	2335
	Amps	(A)			2.14	2.4	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)	3903	5647	7623	9902	12555	15651	19261	23456
	Power Input	(W)	790	933	1055	1164	1268	1375	1493	1628
	Amps	(A)	1.54	1.66	1.79	1.92	2.06	2.21	2.35	2.5
105	Refrig. Capacity	(Btu/h)		4614	6496	8617	11045	13852	17108	20884
	Power Input	(W)		943	1106	1248	1377	1501	1627	1763
	Amps	(A)		1.68	1.84	2.01	2.18	2.36	2.54	2.73
120	Refrig. Capacity	(Btu/h)			5291	7243	9438	11947	14840	18188
	Power Input	(W)			1123	1312	1480	1635	1785	1936
	Amps	(A)			1.88	2.09	2.3	2.51	2.73	2.95
140	Refrig. Capacity	(Btu/h)				5349	7220	9317	11712	14475
	Power Input	(W)				1339	1582	1800	2003	2197
	Amps	(A)				2.16	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)	3903	5647	7623	9902	12555	15651	19261	23456
	Power Input	(W)	790	933	1055	1164	1268	1375	1493	1628
	Amps	(A)	1.54	1.66	1.79	1.92	2.06	2.21	2.35	2.5
105	Refrig. Capacity	(Btu/h)		4614	6496	8617	11045	13852	17108	20884
	Power Input	(W)		943	1106	1248	1377	1501	1627	1763
	Amps	(A)		1.68	1.84	2.01	2.18	2.36	2.54	2.73
120	Refrig. Capacity	(Btu/h)			5291	7243	9438	11947	14840	18188
	Power Input	(W)			1123	1312	1480	1635	1785	1936
	Amps	(A)			1.88	2.09	2.3	2.51	2.73	2.95
140	Refrig. Capacity	(Btu/h)				5349	7220	9317	11712	14475
	Power Input	(W)				1339	1582	1800	2003	2197
	Amps	(A)				2.16	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)	3519	5097	6926	9072	11603	14587	18092	22185
	Power Input	(W)	736	879	997	1100	1195	1290	1394	1515
	Amps	(A)	1.44	1.56	1.69	1.82	1.94	2.07	2.2	2.33
105	Refrig. Capacity	(Btu/h)		4179	5923	7926	10254	12976	16160	19872
	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)		3183	4834	6684	8801	11253	14107	17430
	Power Input	(W)		829	1044	1228	1391	1539	1681	1825
	Amps	(A)		1.55	1.75	1.96	2.16	2.37	2.57	2.78
140	Refrig. Capacity	(Btu/h)			3341	4975	6796	8873	11274	14066
	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)	4881	6629	8612	10890	13521	16566	20084
	Power Input	(W)	984	1142	1275	1393	1505	1621	1749
	Amps	(A)	1.76	1.9	2.05	2.21	2.37	2.53	2.7
120	Refrig. Capacity	(Btu/h)	3942	5613	7471	9576	11987	14762	17962
	Power Input	(W)	958	1169	1347	1502	1644	1781	1923
	Amps	(A)	1.78	1.96	2.14	2.33	2.53	2.73	2.93
140	Refrig. Capacity	(Btu/h)		4201	5886	7753	9862	12271	15040
	Power Input	(W)		1139	1396	1620	1819	2004	2183
	Amps	(A)		2.02	2.25	2.48	2.73	2.97	3.23