



tecumseh

AJ4519P

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

Compressor

AJ4519P-TZ1A

HBP

R-404A / R-448A / R-449A / R-452A / R-454C / R-455A

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	2513 / 2850	8568 / 9720	68 dBA
R-404A	50HZ / 60HZ	2534 / 2875	8642 / 9804	
R-448A	50HZ / 60HZ	2506 / 2843	8546 / 9695	
R-449A	50HZ / 60HZ	2502 / 2839	8533 / 9680	
R-454C	50HZ	2079	7089	
R-455A	50HZ	2306	7862	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°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)	4.2
Current RLA 60Hz (A)	4.2
Current MCC (A)	5.4
Current LRA (A)	23
Overload	Internal

Pressure Equipment Directive

Max. Ambient Temp. (°C)	+46
Max. Allowable Press. (bar)	21.5
Ambient Temp. Range (°C)	-35/+150
Leak Test pressure (bar)	23.7
Free Volume (l)	4.7

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



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4333	6037	8110	10630	13678	17343	21720	26911
	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)	3371	4945	6817	9060	11756	14993	18866	23481
	Power Input	(W)	962	1119	1270	1417	1559	1698	1834	1967
	Amps	(A)	2.51	2.7	2.89	3.09	3.29	3.5	3.72	3.94
120	Refrig. Capacity	(Btu/h)			5483	7449	9791	12597	15964	20005
	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)				5220	7084	9311	12001	15273
	Power Input	(W)				1586	1810	2028	2240	2447
	Amps	(A)				3.41	3.72	4.04	4.36	4.7

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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4925	6951	9297	12061	15346	19268	23949	29518
	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)	3670	5605	7786	10305	13262	16771	20955	25949
	Power Input	(W)	1028	1293	1517	1712	1890	2062	2242	2441
	Amps	(A)	2.27	2.52	2.79	3.06	3.35	3.64	3.94	4.25
120	Refrig. Capacity	(Btu/h)			6210	8465	11077	14157	17827	22231
	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)				5913	8035	10514	13476	17067
	Power Input	(W)				1859	2138	2392	2632	2870
	Amps	(A)				3.22	3.58	3.94	4.31	4.7



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4577	6300	8388	10915	13964	17622	21986	27161
	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)	3564	5144	7015	9247	11920	15121	18948	23513
	Power Input	(W)	1028	1187	1339	1486	1628	1765	1896	2024
	Amps	(A)	2.68	2.86	3.05	3.24	3.44	3.64	3.85	4.05
120	Refrig. Capacity	(Btu/h)		3959	5608	7544	9841	12585	15876	19830
	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)			3677	5208	6999	9133	11710	14856
	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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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5205	7254	9615	12385	15668	19578	24241	29793
	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)	3886	5832	8012	10517	13447	16915	21046	25984
	Power Input	(W)	1101	1372	1600	1796	1973	2143	2318	2511
	Amps	(A)	2.42	2.68	2.94	3.21	3.49	3.78	4.07	4.37
120	Refrig. Capacity	(Btu/h)		4373	6351	8573	11134	14143	17728	22037
	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)			4090	5899	7939	10314	13149	16601
	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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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3978	5665	7712	10194	13195	16799	21098	26185
	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)		4695	6568	8809	11498	14722	18572	23146
	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)			5400	7406	9792	12642	16052	20122
	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)				5524	7515	9880	12714	16124
	Power Input	(W)				1509	1732	1949	2160	2364
	Amps	(A)				3.24	3.56	3.88	4.21	4.54

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4516	6524	8841	11567	14805	18665	23264	28722
	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)		5322	7503	10019	12970	16468	20629	25578
	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)			6117	8416	11077	14207	17926	22361
	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)				6258	8522	11155	14276	18020
	Power Input	(W)				1768	2045	2298	2538	2773
	Amps	(A)				3.06	3.42	3.79	4.16	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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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3968	5653	7699	10181	13183	16790	21095	26192
	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)		4684	6555	8795	11485	14712	18569	23154
	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)			5387	7392	9779	12633	16049	20130
	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)				5510	7502	9870	12711	16133
	Power Input	(W)				1509	1732	1949	2160	2364
	Amps	(A)				3.24	3.56	3.88	4.21	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)	4505	6510	8826	11552	14791	18655	23261	28730
	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)		5309	7488	10003	12956	16458	20626	25587
	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)			6102	8401	11062	14197	17923	22371
	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)				6243	8507	11143	14273	18030
	Power Input	(W)				1768	2045	2298	2538	2773
	Amps	(A)				3.06	3.42	3.79	4.16	4.54

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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		4994	6731	8817	11318	14303	17848	22028
	Power Input	(W)		908	1011	1111	1209	1307	1407	1509
	Amps	(A)		2.29	2.4	2.52	2.64	2.77	2.91	3.06
105	Refrig. Capacity	(Btu/h)		3985	5551	7407	9618	12253	15389	19104
	Power Input	(W)		947	1068	1184	1297	1408	1520	1632
	Amps	(A)		2.28	2.43	2.58	2.74	2.91	3.08	3.27
120	Refrig. Capacity	(Btu/h)			4486	6149	8111	10439	13208	16501
	Power Input	(W)			1109	1250	1386	1519	1651	1783
	Amps	(A)			2.48	2.67	2.86	3.07	3.28	3.5
140	Refrig. Capacity	(Btu/h)				4649	6337	8319	10668	13470
	Power Input	(W)				1303	1484	1660	1833	2004
	Amps	(A)				2.8	3.05	3.31	3.57	3.85

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		5144	7051	9403	12286	15788	20004	25032
	Power Input	(W)		909	1018	1120	1213	1297	1370	1431
	Amps	(A)		2.43	2.55	2.66	2.77	2.86	2.96	3.06
105	Refrig. Capacity	(Btu/h)		4287	6013	8124	10703	13842	17636	22186
	Power Input	(W)		950	1084	1212	1332	1443	1545	1636
	Amps	(A)		2.45	2.61	2.76	2.9	3.04	3.18	3.33
120	Refrig. Capacity	(Btu/h)			4938	6789	9048	11804	15155	19206
	Power Input	(W)			1133	1290	1441	1583	1718	1842
	Amps	(A)			2.66	2.86	3.04	3.23	3.42	3.62
140	Refrig. Capacity	(Btu/h)				5011	6814	9030	11760	15113
	Power Input	(W)				1365	1561	1751	1934	2109
	Amps	(A)				2.97	3.22	3.48	3.73	4