



tecumseh

AJ2464P

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

Compressor

AJ2464P-TZ1A

LBP

R-404A / 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	1113 / 1229	3795 / 4192	62 dBA
R-404A	50HZ / 60HZ	1162 / 1284	3963 / 4378	
R-448A	50HZ / 60HZ	1070 / 1182	3648 / 4032	
R-449A	50HZ / 60HZ	1068 / 1181	3642 / 4026	
R-454C	50HZ	980	3341	
R-455A	50HZ	1052	3589	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap -10°F / T°Return gas temp. 40°F / T°Subcooling 0°F



*Non-contractual picture

Dimensions

Weight	21.4 kg (47 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	-40°C to -10°C (-40°F to 14°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	475

Electrical

Motor Type	3PH
Main Winding (Ohm)	12.1
Current RLA 50Hz (A)	2.2
Current RLA 60Hz (A)	2.1
Current MCC (A)	3.7
Current LRA (A)	16.5
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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400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	2082	3000	4139	5533	7214	9215
	Power Input	(W)	604	733	864	1001	1145	1297
	Amps	(A)	1.46	1.6	1.75	1.93	2.14	2.37
105	Refrig. Capacity	(Btu/h)	1637	2449	3448	4669	6142	7901
	Power Input	(W)	582	732	885	1044	1209	1384
	Amps	(A)	1.43	1.6	1.79	2	2.24	2.5
120	Refrig. Capacity	(Btu/h)		1904	2756	3795	5053	6561
	Power Input	(W)		717	892	1074	1263	1461
	Amps	(A)		1.58	1.81	2.05	2.32	2.6
140	Refrig. Capacity	(Btu/h)			1867	2652	3610	4769
	Power Input	(W)			879	1094	1315	1546
	Amps	(A)			1.8	2.08	2.39	2.71

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	2283	3295	4553	6095	7957	10175
	Power Input	(W)	695	853	1008	1168	1341	1535
	Amps	(A)	1.36	1.53	1.72	1.94	2.19	2.47
105	Refrig. Capacity	(Btu/h)	1801	2691	3794	5144	6778	8730
	Power Input	(W)	665	849	1031	1218	1418	1640
	Amps	(A)	1.32	1.53	1.76	2.01	2.29	2.6
120	Refrig. Capacity	(Btu/h)		2105	3043	4192	5589	7266
	Power Input	(W)		819	1028	1242	1470	1719
	Amps	(A)		1.51	1.77	2.05	2.36	2.7
140	Refrig. Capacity	(Btu/h)			2092	2960	4026	5322
	Power Input	(W)			1007	1257	1522	1808
	Amps	(A)			1.75	2.08	2.43	2.8



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

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-404A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	2274	3240	4424	5854	7554	9549
	Power Input (W)	649	788	928	1071	1218	1370
	Amps (A)	1.57	1.72	1.88	2.07	2.28	2.5
105	Refrig. Capacity (Btu/h)	1795	2641	3669	4904	6372	8096
	Power Input (W)	635	793	954	1118	1287	1463
	Amps (A)	1.55	1.73	1.93	2.14	2.38	2.64
120	Refrig. Capacity (Btu/h)		2053	2923	3963	5198	6650
	Power Input (W)		784	966	1153	1347	1547
	Amps (A)		1.73	1.96	2.2	2.47	2.76
140	Refrig. Capacity (Btu/h)			1952	2730	3651	4737
	Power Input (W)			962	1182	1410	1647
	Amps (A)			1.97	2.25	2.56	2.89

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60HZ R-404A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	2494	3558	4866	6449	8332	10544
	Power Input (W)	747	917	1082	1250	1427	1621
	Amps (A)	1.46	1.64	1.85	2.08	2.33	2.61
105	Refrig. Capacity (Btu/h)	1975	2903	4036	5403	7031	8946
	Power Input (W)	725	920	1110	1304	1509	1733
	Amps (A)	1.44	1.66	1.89	2.15	2.44	2.74
120	Refrig. Capacity (Btu/h)		2270	3227	4378	5749	7365
	Power Input (W)		896	1113	1334	1568	1821
	Amps (A)		1.65	1.92	2.21	2.52	2.86
140	Refrig. Capacity (Btu/h)			2188	3048	4073	5286
	Power Input (W)			1101	1360	1632	1926
	Amps (A)			1.91	2.25	2.6	2.98



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

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1692	2600	3750	5176	6912	8991
	Power Input	(W)	554	682	812	945	1083	1229
	Amps	(A)	1.34	1.49	1.65	1.83	2.02	2.24
105	Refrig. Capacity	(Btu/h)		2128	3139	4395	5929	7774
	Power Input	(W)		689	838	990	1146	1310
	Amps	(A)		1.5	1.69	1.9	2.12	2.36
120	Refrig. Capacity	(Btu/h)		1679	2556	3648	4986	6602
	Power Input	(W)		680	851	1025	1204	1389
	Amps	(A)		1.5	1.72	1.96	2.21	2.47
140	Refrig. Capacity	(Btu/h)			1859	2740	3826	5147
	Power Input	(W)			843	1052	1265	1485
	Amps	(A)			1.72	2	2.3	2.6

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1867	2862	4129	5704	7625	9928
	Power Input	(W)	637	794	947	1103	1269	1454
	Amps	(A)	1.25	1.42	1.62	1.83	2.07	2.34
105	Refrig. Capacity	(Btu/h)		2347	3458	4844	6543	8590
	Power Input	(W)		798	975	1154	1344	1552
	Amps	(A)		1.44	1.66	1.9	2.17	2.46
120	Refrig. Capacity	(Btu/h)		1865	2827	4032	5516	7314
	Power Input	(W)		776	979	1185	1401	1635
	Amps	(A)		1.43	1.68	1.96	2.25	2.56
140	Refrig. Capacity	(Btu/h)			2089	3063	4270	5746
	Power Input	(W)			964	1209	1464	1736
	Amps	(A)			1.67	1.99	2.33	2.68

* 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. : 40 °F
Subcooling : 0 °F

50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1690	2597	3746	5170	6904	8981
	Power Input	(W)	554	682	812	945	1083	1229
	Amps	(A)	1.34	1.49	1.65	1.83	2.02	2.24
105	Refrig. Capacity	(Btu/h)	1328	2126	3135	4389	5921	7764
	Power Input	(W)	541	689	838	990	1146	1310
	Amps	(A)	1.32	1.5	1.69	1.9	2.12	2.36
120	Refrig. Capacity	(Btu/h)		1677	2553	3642	4978	6592
	Power Input	(W)		680	851	1025	1204	1389
	Amps	(A)		1.5	1.72	1.96	2.21	2.47
140	Refrig. Capacity	(Btu/h)			1855	2735	3818	5137
	Power Input	(W)			843	1052	1265	1485
	Amps	(A)			1.72	2	2.3	2.6

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1865	2859	4125	5698	7617	9917
	Power Input	(W)	637	794	947	1103	1269	1454
	Amps	(A)	1.25	1.42	1.62	1.83	2.07	2.34
105	Refrig. Capacity	(Btu/h)	1473	2344	3454	4838	6535	8579
	Power Input	(W)	617	798	975	1154	1344	1552
	Amps	(A)	1.23	1.44	1.66	1.9	2.17	2.46
120	Refrig. Capacity	(Btu/h)		1862	2823	4026	5508	7303
	Power Input	(W)		776	979	1185	1401	1635
	Amps	(A)		1.43	1.68	1.96	2.25	2.56
140	Refrig. Capacity	(Btu/h)			2085	3057	4262	5734
	Power Input	(W)			964	1209	1464	1736
	Amps	(A)			1.67	1.99	2.33	2.68

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

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-454C

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1600	2406	3414	4654	6155	7947
	Power Input (W)	476	591	705	820	935	1053
	Amps (A)	1.37	1.48	1.61	1.75	1.91	2.06
105	Refrig. Capacity (Btu/h)	1263	1991	2896	4005	5347	6953
	Power Input (W)	462	595	727	859	994	1130
	Amps (A)	1.36	1.47	1.61	1.78	1.96	2.15
120	Refrig. Capacity (Btu/h)		1576	2370	3341	4518	5930
	Power Input (W)		581	733	885	1040	1197
	Amps (A)		1.46	1.61	1.8	2.01	2.24
140	Refrig. Capacity (Btu/h)			1681	2459	3406	4550
	Power Input (W)			712	894	1077	1265
	Amps (A)			1.62	1.84	2.09	2.37

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50HZ R-455A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1670	2553	3653	5001	6629	8569
	Power Input (W)	512	634	756	878	997	1112
	Amps (A)	1.38	1.49	1.63	1.78	1.94	2.1
105	Refrig. Capacity (Btu/h)	1307	2110	3100	4309	5768	7508
	Power Input (W)	502	638	779	922	1067	1211
	Amps (A)	1.37	1.5	1.65	1.84	2.03	2.23
120	Refrig. Capacity (Btu/h)		1659	2529	3589	4869	6400
	Power Input (W)		628	785	949	1117	1289
	Amps (A)		1.49	1.66	1.87	2.1	2.34
140	Refrig. Capacity (Btu/h)			1779	2624	3649	4885
	Power Input (W)			771	958	1156	1361
	Amps (A)			1.65	1.89	2.16	2.46