



tecumseh

AJ2446P

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

Compressor

AJ2446P-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	826 / 990	2816 / 3374	57 dBA
R-404A	50HZ / 60HZ	862 / 1033	2941 / 3524	
R-448A	50HZ / 60HZ	794 / 952	2708 / 3247	
R-449A	50HZ / 60HZ	793 / 951	2704 / 3242	
R-454C	50HZ	743	2534	
R-455A	50HZ	779	2657	

(*) 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	21.3 kg (47 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	280 mm (11 in)
Ø Suction Tube	1/2 in (12.7mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	26.2
Horse Power	1-1/4
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)	16
Current RLA 50Hz (A)	1.5
Current RLA 60Hz (A)	1.6
Current MCC (A)	3.5
Current LRA (A)	13.4
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

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)	1516	2233	3123	4210	5519	7076
	Power Input	(W)	450	550	651	752	852	952
	Amps	(A)	1.03	1.13	1.25	1.38	1.53	1.69
105	Refrig. Capacity	(Btu/h)	1157	1785	2559	3505	4647	6009
	Power Input	(W)	430	547	666	786	907	1027
	Amps	(A)	1	1.13	1.28	1.43	1.6	1.79
120	Refrig. Capacity	(Btu/h)		1360	2015	2816	3787	4951
	Power Input	(W)		530	667	807	948	1091
	Amps	(A)		1.12	1.28	1.47	1.66	1.87
140	Refrig. Capacity	(Btu/h)			1346	1948	2685	3577
	Power Input	(W)			644	810	980	1152
	Amps	(A)			1.27	1.49	1.71	1.95

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1802	2636	3676	4951	6490	8322
	Power Input	(W)	533	652	775	903	1038	1180
	Amps	(A)	1.02	1.14	1.29	1.45	1.63	1.84
105	Refrig. Capacity	(Btu/h)	1408	2141	3051	4168	5519	7133
	Power Input	(W)	510	649	791	939	1095	1259
	Amps	(A)	0.99	1.14	1.31	1.5	1.71	1.93
120	Refrig. Capacity	(Btu/h)		1657	2427	3374	4527	5913
	Power Input	(W)		629	791	960	1136	1323
	Amps	(A)		1.12	1.32	1.53	1.76	2.01
140	Refrig. Capacity	(Btu/h)			1637	2343	3215	4278
	Power Input	(W)			765	961	1166	1382
	Amps	(A)			1.3	1.54	1.8	2.08



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Subcooling : 0 °F

50HZ R-404A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1656	2411	3338	4454	5779	7333
	Power Input (W)	483	592	699	804	907	1005
	Amps (A)	1.1	1.22	1.34	1.48	1.63	1.79
105	Refrig. Capacity (Btu/h)	1269	1925	2723	3682	4821	6158
	Power Input (W)	468	593	718	842	965	1086
	Amps (A)	1.09	1.23	1.37	1.53	1.71	1.89
120	Refrig. Capacity (Btu/h)		1466	2137	2941	3896	5018
	Power Input (W)		579	722	867	1011	1155
	Amps (A)		1.22	1.39	1.57	1.77	1.98
140	Refrig. Capacity (Btu/h)			1408	2006	2716	3553
	Power Input (W)			704	876	1051	1227
	Amps (A)			1.39	1.61	1.83	2.07

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60HZ R-404A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1968	2847	3929	5238	6796	8623
	Power Input (W)	573	702	832	966	1104	1247
	Amps (A)	1.09	1.23	1.38	1.55	1.74	1.94
105	Refrig. Capacity (Btu/h)	1545	2309	3246	4378	5725	7309
	Power Input (W)	557	703	852	1006	1165	1331
	Amps (A)	1.08	1.24	1.41	1.61	1.82	2.04
120	Refrig. Capacity (Btu/h)		1787	2574	3524	4657	5993
	Power Input (W)		687	856	1031	1212	1401
	Amps (A)		1.23	1.43	1.64	1.88	2.13
140	Refrig. Capacity (Btu/h)			1711	2412	3252	4250
	Power Input (W)			836	1039	1251	1472
	Amps (A)			1.42	1.67	1.93	2.21



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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)	1235	1937	2830	3939	5288	6904
	Power Input	(W)	412	512	612	710	807	902
	Amps	(A)	0.94	1.05	1.17	1.3	1.45	1.61
105	Refrig. Capacity	(Btu/h)		1553	2330	3300	4486	5913
	Power Input	(W)		515	630	745	860	973
	Amps	(A)		1.06	1.21	1.36	1.52	1.69
120	Refrig. Capacity	(Btu/h)		1201	1870	2708	3738	4984
	Power Input	(W)		502	636	770	904	1037
	Amps	(A)		1.06	1.22	1.4	1.58	1.78
140	Refrig. Capacity	(Btu/h)			1343	2016	2848	3863
	Power Input	(W)			617	780	943	1107
	Amps	(A)			1.22	1.43	1.64	1.87

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1474	2291	3335	4634	6220	8120
	Power Input	(W)	488	607	728	852	982	1118
	Amps	(A)	0.93	1.06	1.21	1.37	1.54	1.74
105	Refrig. Capacity	(Btu/h)		1869	2782	3926	5329	7019
	Power Input	(W)		610	748	890	1038	1192
	Amps	(A)		1.07	1.24	1.42	1.62	1.83
120	Refrig. Capacity	(Btu/h)		1470	2257	3247	4469	5952
	Power Input	(W)		596	754	916	1083	1258
	Amps	(A)		1.06	1.26	1.46	1.68	1.91
140	Refrig. Capacity	(Btu/h)			1637	2426	3411	4620
	Power Input	(W)			732	924	1122	1327
	Amps	(A)			1.24	1.48	1.73	1.99

* 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)	1233	1935	2827	3934	5283	6897
	Power Input	(W)	412	512	612	710	807	902
	Amps	(A)	0.94	1.05	1.17	1.3	1.45	1.61
105	Refrig. Capacity	(Btu/h)	941	1551	2328	3296	4480	5906
	Power Input	(W)	399	515	630	745	860	973
	Amps	(A)	0.93	1.06	1.21	1.36	1.52	1.69
120	Refrig. Capacity	(Btu/h)		1199	1868	2704	3732	4976
	Power Input	(W)		502	636	770	904	1037
	Amps	(A)		1.06	1.22	1.4	1.58	1.78
140	Refrig. Capacity	(Btu/h)			1340	2012	2842	3855
	Power Input	(W)			617	780	943	1107
	Amps	(A)			1.22	1.43	1.64	1.87

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1472	2289	3331	4629	6213	8111
	Power Input	(W)	488	607	728	852	982	1118
	Amps	(A)	0.93	1.06	1.21	1.37	1.54	1.74
105	Refrig. Capacity	(Btu/h)	1154	1866	2779	3921	5322	7010
	Power Input	(W)	474	610	748	890	1038	1192
	Amps	(A)	0.92	1.07	1.24	1.42	1.62	1.83
120	Refrig. Capacity	(Btu/h)		1468	2254	3242	4463	5943
	Power Input	(W)		596	754	916	1083	1258
	Amps	(A)		1.06	1.26	1.46	1.68	1.91
140	Refrig. Capacity	(Btu/h)			1634	2421	3404	4610
	Power Input	(W)			732	924	1122	1327
	Amps	(A)			1.24	1.48	1.73	1.99

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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)	1058	1739	2578	3596	4818	6265
	Power Input (W)	339	435	527	615	699	779
	Amps (A)	1.11	1.19	1.29	1.38	1.49	1.6
105	Refrig. Capacity (Btu/h)	777	1401	2158	3069	4156	5441
	Power Input (W)	314	426	533	636	736	833
	Amps (A)	1.08	1.18	1.29	1.41	1.53	1.66
120	Refrig. Capacity (Btu/h)		1061	1733	2534	3484	4606
	Power Input (W)		400	525	647	764	879
	Amps (A)		1.15	1.28	1.42	1.57	1.72
140	Refrig. Capacity (Btu/h)			1176	1826	2591	3492
	Power Input (W)			489	637	782	923
	Amps (A)			1.24	1.41	1.6	1.79

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50HZ R-455A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1157	1854	2722	3783	5063	6586
	Power Input (W)	353	455	549	640	730	824
	Amps (A)	1.11	1.18	1.28	1.39	1.51	1.65
105	Refrig. Capacity (Btu/h)	862	1499	2282	3236	4386	5755
	Power Input (W)	330	447	557	663	768	876
	Amps (A)	1.11	1.19	1.29	1.42	1.55	1.7
120	Refrig. Capacity (Btu/h)		1133	1821	2657	3666	4869
	Power Input (W)		423	552	677	801	926
	Amps (A)		1.16	1.28	1.43	1.59	1.76
140	Refrig. Capacity (Btu/h)			1212	1874	2678	3645
	Power Input (W)			510	666	820	976
	Amps (A)			1.23	1.42	1.62	1.83