



tecumseh

AJ4513P

220 - 240V 1~ 50 Hz

Compressor

AJ4513P-FZ3A

HBP

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

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	1728	5892	64 dBA
R-404A	50HZ	1743	5943	
R-448A	50HZ	1724	5877	
R-449A	50HZ	1721	5868	
R-454C	50HZ	1435	4893	
R-455A	50HZ	1601	5461	

(*) 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	21.4 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	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	24.2
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	CSR
Main Winding (Ohm)	2.67
Start Winding (Ohm)	7.89
Current RLA 50Hz (A)	6.8
Current MCC (A)	11.5
Current LRA (A)	33
Start Capacitor	88-101 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MST16AHW
- Time Check	2.8s - 5.2s / 32.5 A
- Open Temp / Close Temp	135 °C / 61 °C
Potential Relay	RVA 3AN3D
- Pick Up / Drop Out	260-289 V / 50-110 V

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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Performances are given at rating conditions ARI 520-90
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)	2851	4073	5612	7522	9865	12702	16101	20135
	Power Input	(W)	601	696	782	860	932	997	1057	1113
	Amps	(A)	3.37	3.71	4.04	4.35	4.63	4.9	5.15	5.39
105	Refrig. Capacity	(Btu/h)	2180	3273	4627	6293	8331	10804	13781	17338
	Power Input	(W)	595	714	823	923	1015	1100	1178	1250
	Amps	(A)	3.28	3.75	4.19	4.62	5.03	5.42	5.79	6.14
120	Refrig. Capacity	(Btu/h)			3640	5066	6804	8917	11475	14558
	Power Input	(W)			848	975	1093	1202	1304	1399
	Amps	(A)			4.28	4.83	5.36	5.87	6.37	6.85
140	Refrig. Capacity	(Btu/h)				3412	4753	6389	8392	10849
	Power Input	(W)				1006	1167	1318	1460	1593
	Amps	(A)				5	5.7	6.38	7.04	7.69

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3011	4251	5804	7725	10071	12906	16298	20322
	Power Input	(W)	638	735	822	901	972	1036	1094	1146
	Amps	(A)	3.57	3.92	4.25	4.55	4.83	5.09	5.33	5.55
105	Refrig. Capacity	(Btu/h)	2304	3405	4761	6423	8447	10896	13841	17361
	Power Input	(W)	636	757	868	968	1060	1143	1218	1287
	Amps	(A)	3.5	3.97	4.42	4.84	5.25	5.63	5.99	6.32
120	Refrig. Capacity	(Btu/h)		2560	3723	5131	6838	8908	11411	14431
	Power Input	(W)		759	898	1025	1142	1249	1348	1438
	Amps	(A)		3.96	4.53	5.08	5.6	6.1	6.58	7.04
140	Refrig. Capacity	(Btu/h)			2332	3404	4696	6267	8189	10552
	Power Input	(W)			892	1063	1223	1371	1508	1636
	Amps	(A)			4.58	5.29	5.97	6.64	7.28	7.89



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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)	2619	3822	5335	7214	9516	12303	15639	19592
	Power Input	(W)	562	649	729	804	873	937	995	1047
	Amps	(A)	3.15	3.46	3.77	4.06	4.34	4.61	4.85	5.06
105	Refrig. Capacity	(Btu/h)		3110	4458	6118	8148	10609	13566	17091
	Power Input	(W)		671	772	867	955	1037	1112	1180
	Amps	(A)		3.52	3.93	4.34	4.73	5.11	5.46	5.8
120	Refrig. Capacity	(Btu/h)			3586	5037	6804	8949	11537	14643
	Power Input	(W)			800	922	1036	1142	1241	1332
	Amps	(A)			4.04	4.56	5.08	5.58	6.06	6.52
140	Refrig. Capacity	(Btu/h)				3612	5043	6781	8891	11453
	Power Input	(W)				958	1117	1266	1407	1539
	Amps	(A)				4.76	5.45	6.13	6.79	7.43

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2612	3814	5326	7204	9507	12296	15637	19598
	Power Input	(W)	562	649	729	804	873	937	995	1047
	Amps	(A)	3.15	3.46	3.77	4.06	4.34	4.61	4.85	5.06
105	Refrig. Capacity	(Btu/h)		3102	4449	6109	8139	10602	13564	17097
	Power Input	(W)		671	772	867	955	1037	1112	1180
	Amps	(A)		3.52	3.93	4.34	4.73	5.11	5.46	5.8
120	Refrig. Capacity	(Btu/h)			3577	5028	6795	8942	11535	14649
	Power Input	(W)			800	922	1036	1142	1241	1332
	Amps	(A)			4.04	4.56	5.08	5.58	6.06	6.52
140	Refrig. Capacity	(Btu/h)				3603	5035	6774	8889	11459
	Power Input	(W)				958	1117	1266	1407	1539
	Amps	(A)				4.76	5.45	6.13	6.79	7.43

* 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

Evaporating : 20 °F
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50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		3092	4402	6051	8098	10607	13645	17283
	Power Input	(W)		597	668	729	778	817	843	858
	Amps	(A)		3.12	3.41	3.66	3.87	4.04	4.18	4.27
105	Refrig. Capacity	(Btu/h)		2497	3654	5104	6907	9128	11834	15099
	Power Input	(W)		612	704	787	859	922	974	1015
	Amps	(A)		3.15	3.55	3.91	4.24	4.52	4.77	4.97
120	Refrig. Capacity	(Btu/h)			2915	4160	5712	7635	10000	12883
	Power Input	(W)			724	829	925	1012	1090	1158
	Amps	(A)			3.64	4.11	4.54	4.94	5.3	5.62
140	Refrig. Capacity	(Btu/h)				2960	4167	5682	7577	9932
	Power Input	(W)				866	994	1115	1228	1333
	Amps	(A)				4.28	4.86	5.4	5.91	6.38

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		3539	4951	6717	8906	11590	14846	18753
	Power Input	(W)		629	703	767	821	863	894	912
	Amps	(A)		3.19	3.5	3.79	4.04	4.25	4.39	4.46
105	Refrig. Capacity	(Btu/h)		2879	4136	5696	7628	10003	12901	16402
	Power Input	(W)		645	740	828	906	975	1033	1080
	Amps	(A)		3.3	3.68	4.06	4.41	4.73	4.99	5.19
120	Refrig. Capacity	(Btu/h)			3320	4670	6340	8402	10935	14024
	Power Input	(W)			760	872	976	1071	1158	1235
	Amps	(A)			3.78	4.27	4.74	5.18	5.57	5.91
140	Refrig. Capacity	(Btu/h)				3349	4662	6298	8335	10864
	Power Input	(W)				907	1047	1180	1307	1425
	Amps	(A)				4.4	5.05	5.68	6.28	6.83