



tecumseh

AJ4510P

220 - 240V 1~ 50 Hz

Compressor

AJ4510P-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	1370	4673	63 dBA
R-404A	50HZ	1382	4714	
R-448A	50HZ	1367	4661	
R-449A	50HZ	1365	4654	
R-454C	50HZ	1166	3976	
R-455A	50HZ	1243	4240	

(*) 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	21.5 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)	18.3
Horse Power	3/4
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)	2.94
Start Winding (Ohm)	8.83
Current RLA 50Hz (A)	5.4
Current MCC (A)	7.5
Current LRA (A)	29.5
Start Capacitor	100-115 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MRA38128
- Time Check	2.8s - 5.2s / 20.5 A
- Open Temp / Close Temp	105 °C / 52 °C
Potential Relay	RVA 403D
- Pick Up / Drop Out	280-310 V / 60-121 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.



tecumseh

AJ4510P

220 - 240V 1~ 50 Hz

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)	2384	3289	4421	5826	7556	9666	12214	15264
	Power Input	(W)	540	610	675	735	789	837	876	906
	Amps	(A)	2.63	2.93	3.22	3.48	3.74	3.97	4.19	4.39
105	Refrig. Capacity	(Btu/h)	1897	2715	3718	4951	6464	8313	10558	13264
	Power Input	(W)	547	631	711	788	859	925	984	1035
	Amps	(A)	2.59	2.98	3.34	3.7	4.03	4.35	4.65	4.94
120	Refrig. Capacity	(Btu/h)			3002	4059	5352	6936	8872	11229
	Power Input	(W)			737	831	921	1006	1085	1158
	Amps	(A)			3.44	3.88	4.3	4.71	5.1	5.47
140	Refrig. Capacity	(Btu/h)				2851	3843	5065	6581	8465
	Power Input	(W)				874	989	1101	1209	1312
	Amps	(A)				4.08	4.61	5.13	5.64	6.13

© 2025 Tecumseh Products Company

50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2518	3433	4572	5982	7714	9821	12364	15406
	Power Input	(W)	574	644	710	770	824	869	906	933
	Amps	(A)	2.79	3.1	3.38	3.65	3.9	4.13	4.34	4.53
105	Refrig. Capacity	(Btu/h)	2003	2824	3826	5053	6554	8384	10604	13282
	Power Input	(W)	585	669	750	826	897	961	1018	1065
	Amps	(A)	2.77	3.16	3.53	3.88	4.21	4.52	4.81	5.09
120	Refrig. Capacity	(Btu/h)		2210	3070	4111	5380	6930	8823	11131
	Power Input	(W)		684	781	874	962	1045	1122	1190
	Amps	(A)		3.19	3.65	4.08	4.49	4.89	5.27	5.62
140	Refrig. Capacity	(Btu/h)			2058	2845	3798	4969	6421	8234
	Power Input	(W)			807	924	1037	1146	1250	1347
	Amps	(A)			3.77	4.31	4.84	5.34	5.83	6.3



tecumseh

AJ4510P

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
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)	2188	3086	4203	5587	7289	9362	11864	14853
	Power Input	(W)	506	569	630	687	740	786	824	852
	Amps	(A)	2.46	2.73	3	3.26	3.5	3.73	3.94	4.13
105	Refrig. Capacity	(Btu/h)		2579	3582	4813	6322	8163	10393	13075
	Power Input	(W)		592	667	740	809	873	929	977
	Amps	(A)		2.8	3.14	3.47	3.8	4.1	4.39	4.66
120	Refrig. Capacity	(Btu/h)			2957	4036	5352	6961	8920	11294
	Power Input	(W)			696	786	873	956	1033	1102
	Amps	(A)			3.25	3.67	4.08	4.47	4.85	5.21
140	Refrig. Capacity	(Btu/h)				3016	4077	5376	6974	8937
	Power Input	(W)				832	946	1058	1166	1267
	Amps	(A)				3.88	4.41	4.93	5.44	5.92

© 2025 Tecumseh Products Company

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2182	3080	4196	5580	7282	9357	11863	14858
	Power Input	(W)	506	569	630	687	740	786	824	852
	Amps	(A)	2.46	2.73	3	3.26	3.5	3.73	3.94	4.13
105	Refrig. Capacity	(Btu/h)		2572	3575	4806	6315	8158	10392	13080
	Power Input	(W)		592	667	740	809	873	929	977
	Amps	(A)		2.8	3.14	3.47	3.8	4.1	4.39	4.66
120	Refrig. Capacity	(Btu/h)			2950	4028	5346	6956	8919	11299
	Power Input	(W)			696	786	873	956	1033	1102
	Amps	(A)			3.25	3.67	4.08	4.47	4.85	5.21
140	Refrig. Capacity	(Btu/h)				3009	4070	5371	6972	8942
	Power Input	(W)				832	946	1058	1166	1267
	Amps	(A)				3.88	4.41	4.93	5.44	5.92

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



tecumseh

AJ4510P

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
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)		2718	3642	4792	6215	7955	10065	12594
	Power Input	(W)		517	570	621	668	708	741	763
	Amps	(A)		2.53	2.77	3.01	3.22	3.4	3.53	3.6
105	Refrig. Capacity	(Btu/h)		2284	3104	4117	5368	6904	8774	11034
	Power Input	(W)		540	603	665	723	776	820	855
	Amps	(A)		2.63	2.91	3.2	3.47	3.71	3.91	4.05
120	Refrig. Capacity	(Btu/h)			2581	3462	4546	5882	7518	9513
	Power Input	(W)			633	710	784	852	912	963
	Amps	(A)			3.04	3.39	3.73	4.05	4.33	4.57
140	Refrig. Capacity	(Btu/h)				2625	3495	4570	5903	7550
	Power Input	(W)				744	844	939	1026	1105
	Amps	(A)				3.56	4.02	4.47	4.9	5.28

© 2025 Tecumseh Products Company

50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2805	3840	5114	6673	8565	10843	13557
	Power Input	(W)		537	597	647	690	729	766	804
	Amps	(A)		2.62	2.89	3.12	3.32	3.5	3.65	3.79
105	Refrig. Capacity	(Btu/h)		2307	3243	4386	5784	7483	9538	12001
	Power Input	(W)		545	626	696	756	809	858	905
	Amps	(A)		2.67	3.03	3.34	3.63	3.88	4.09	4.28
120	Refrig. Capacity	(Btu/h)			2645	3655	4887	6390	8217	10425
	Power Input	(W)			638	732	814	886	952	1013
	Amps	(A)			3.08	3.5	3.89	4.23	4.54	4.81
140	Refrig. Capacity	(Btu/h)				2700	3706	4941	6459	8321
	Power Input	(W)				752	871	977	1073	1161
	Amps	(A)				3.6	4.15	4.65	5.11	5.52