



tecumseh

AJ2432P

220 - 240V 1~ 50 Hz

Compressor

AJ2432P-FZ3A

LBP

R-404A / 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	557	1899	56 dBA
R-404A	50HZ	591	2014	
R-448A	50HZ	544	1854	
R-449A	50HZ	543	1851	
R-454C	50HZ	492	1679	
R-455A	50HZ	525	1790	

(*) 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	19.8 kg (44 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	268 mm (10.6 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	-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	CSR
Main Winding (Ohm)	4.5
Start Winding (Ohm)	9.8
Current RLA 50Hz (A)	2.5
Current MCC (A)	5.7
Current LRA (A)	20.8
Start Capacitor	88-101 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MRA38111-3291
- Time Check	7.5s - 14s / 15.4 A
- Open Temp / Close Temp	105 °C / 52 °C
Potential Relay	RVA 4P3D
- Pick Up / Drop Out	300-328 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.



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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)	939	1445	2090	2893	3876	5058
	Power Input	(W)	334	397	460	527	599	677
	Amps	(A)	1.51	1.77	2.06	2.37	2.7	3.06
105	Refrig. Capacity	(Btu/h)	702	1142	1701	2400	3259	4297
	Power Input	(W)	317	391	467	547	632	724
	Amps	(A)	1.44	1.76	2.09	2.45	2.83	3.24
120	Refrig. Capacity	(Btu/h)		843	1311	1899	2627	3514
	Power Input	(W)		373	460	552	650	756
	Amps	(A)		1.69	2.08	2.48	2.91	3.36
140	Refrig. Capacity	(Btu/h)			820	1250	1793	2467
	Power Input	(W)			431	538	651	774
	Amps	(A)			1.98	2.45	2.93	3.44

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50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1058	1592	2265	3093	4091	5274
	Power Input	(W)	339	406	474	544	617	695
	Amps	(A)	1.62	1.91	2.21	2.53	2.87	3.24
105	Refrig. Capacity	(Btu/h)	802	1263	1841	2553	3412	4435
	Power Input	(W)	326	404	483	566	653	745
	Amps	(A)	1.57	1.9	2.25	2.62	3.01	3.43
120	Refrig. Capacity	(Btu/h)		941	1421	2014	2733	3593
	Power Input	(W)		388	478	573	673	780
	Amps	(A)		1.85	2.25	2.67	3.1	3.56
140	Refrig. Capacity	(Btu/h)			887	1316	1843	2481
	Power Input	(W)			451	562	679	804
	Amps	(A)			2.16	2.64	3.15	3.67



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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)	789	1279	1920	2735	3743	4965
	Power Input	(W)	289	352	415	480	549	623
	Amps	(A)	1.39	1.65	1.93	2.23	2.56	2.9
105	Refrig. Capacity	(Btu/h)		1019	1576	2288	3175	4259
	Power Input	(W)		351	425	501	582	668
	Amps	(A)		1.66	1.98	2.33	2.69	3.07
120	Refrig. Capacity	(Btu/h)		770	1243	1854	2622	3568
	Power Input	(W)		336	421	509	602	701
	Amps	(A)		1.61	1.98	2.37	2.78	3.2
140	Refrig. Capacity	(Btu/h)			846	1323	1933	2697
	Power Input	(W)			396	500	609	725
	Amps	(A)			1.9	2.36	2.82	3.31

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50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	788	1277	1918	2732	3739	4960
	Power Input	(W)	289	352	415	480	549	623
	Amps	(A)	1.39	1.65	1.93	2.23	2.56	2.9
105	Refrig. Capacity	(Btu/h)	595	1018	1574	2285	3171	4254
	Power Input	(W)	278	351	425	501	582	668
	Amps	(A)	1.34	1.66	1.98	2.33	2.69	3.07
120	Refrig. Capacity	(Btu/h)		769	1241	1851	2618	3563
	Power Input	(W)		336	421	509	602	701
	Amps	(A)		1.61	1.98	2.37	2.78	3.2
140	Refrig. Capacity	(Btu/h)			844	1320	1929	2691
	Power Input	(W)			396	500	609	725
	Amps	(A)			1.9	2.36	2.82	3.31

* 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

Return gas temp. : 40 °F
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50HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	803	1243	1795	2476	3301	4286
	Power Input	(W)	279	331	384	438	493	550
	Amps	(A)	1.34	1.55	1.77	2.01	2.27	2.54
105	Refrig. Capacity	(Btu/h)	583	980	1474	2082	2820	3703
	Power Input	(W)	263	322	384	448	517	588
	Amps	(A)	1.25	1.51	1.78	2.07	2.38	2.7
120	Refrig. Capacity	(Btu/h)		713	1147	1679	2327	3105
	Power Input	(W)		302	372	447	527	612
	Amps	(A)		1.41	1.74	2.07	2.43	2.8
140	Refrig. Capacity	(Btu/h)			719	1146	1668	2301
	Power Input	(W)			339	425	519	622
	Amps	(A)			1.57	1.98	2.4	2.84

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50HZ R-455A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	846	1312	1906	2648	3560	4659
	Power Input	(W)	285	341	398	457	517	578
	Amps	(A)	1.34	1.57	1.84	2.13	2.42	2.67
105	Refrig. Capacity	(Btu/h)	621	1036	1564	2224	3035	4017
	Power Input	(W)	266	329	395	466	541	620
	Amps	(A)	1.29	1.53	1.82	2.16	2.51	2.84
120	Refrig. Capacity	(Btu/h)		759	1217	1790	2498	3360
	Power Input	(W)		307	381	462	550	644
	Amps	(A)		1.45	1.77	2.14	2.55	2.97
140	Refrig. Capacity	(Btu/h)			764	1217	1782	2478
	Power Input	(W)			348	440	542	655
	Amps	(A)			1.61	2.04	2.52	3.04