



tecumseh

AJ2446P

220 - 240V 1~ 50 Hz

Compressor

AJ2446P-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	864	2945	57 dBA
R-404A	50HZ	902	3076	
R-448A	50HZ	831	2833	
R-449A	50HZ	830	2829	
R-454C	50HZ	743	2535	
R-455A	50HZ	792	2700	

(*) 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	21.7 kg (48 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	CSR
Main Winding (Ohm)	2.94
Start Winding (Ohm)	8.8
Current RLA 50Hz (A)	3.9
Current MCC (A)	8.1
Current LRA (A)	29.5
Start Capacitor	88-101 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MST18AIN-3291
- Time Check	7.5s - 14s / 20.7 A
- Open Temp / Close Temp	120 °C / 69 °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.



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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)	1578	2324	3237	4344	5670	7238
	Power Input	(W)	478	571	665	759	855	954
	Amps	(A)	2.26	2.6	2.99	3.42	3.89	4.41
105	Refrig. Capacity	(Btu/h)	1213	1874	2679	3653	4819	6202
	Power Input	(W)	459	568	678	791	907	1026
	Amps	(A)	2.18	2.6	3.07	3.57	4.11	4.69
120	Refrig. Capacity	(Btu/h)		1430	2116	2945	3942	5129
	Power Input	(W)		552	679	810	945	1085
	Amps	(A)		2.59	3.12	3.7	4.31	4.96
140	Refrig. Capacity	(Btu/h)			1400	2020	2773	3681
	Power Input	(W)			664	819	980	1147
	Amps	(A)			3.17	3.84	4.54	5.28

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50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1723	2509	3460	4596	5937	7500
	Power Input	(W)	514	614	714	812	910	1008
	Amps	(A)	2.42	2.8	3.21	3.66	4.14	4.65
105	Refrig. Capacity	(Btu/h)	1331	2022	2851	3837	4999	6356
	Power Input	(W)	500	615	730	847	965	1085
	Amps	(A)	2.37	2.82	3.3	3.82	4.37	4.96
120	Refrig. Capacity	(Btu/h)		1543	2244	3076	4055	5198
	Power Input	(W)		603	735	870	1008	1150
	Amps	(A)		2.83	3.38	3.97	4.59	5.25
140	Refrig. Capacity	(Btu/h)			1464	2080	2806	3657
	Power Input	(W)			726	885	1051	1222
	Amps	(A)			3.47	4.15	4.87	5.62



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50HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1288	2017	2935	4065	5433	7062
	Power Input	(W)	439	532	624	717	809	904
	Amps	(A)	2.07	2.43	2.81	3.23	3.68	4.18
105	Refrig. Capacity	(Btu/h)		1634	2442	3441	4653	6103
	Power Input	(W)		534	642	750	860	972
	Amps	(A)		2.45	2.9	3.38	3.9	4.44
120	Refrig. Capacity	(Btu/h)		1267	1966	2833	3890	5162
	Power Input	(W)		523	648	773	901	1033
	Amps	(A)		2.45	2.98	3.53	4.11	4.72
140	Refrig. Capacity	(Btu/h)			1399	2090	2941	3975
	Power Input	(W)			636	788	943	1102
	Amps	(A)			3.04	3.69	4.37	5.07

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50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1287	2015	2932	4061	5427	7055
	Power Input	(W)	439	532	624	717	809	904
	Amps	(A)	2.07	2.43	2.81	3.23	3.68	4.18
105	Refrig. Capacity	(Btu/h)	990	1632	2439	3436	4647	6095
	Power Input	(W)	426	534	642	750	860	972
	Amps	(A)	2.02	2.45	2.9	3.38	3.9	4.44
120	Refrig. Capacity	(Btu/h)		1265	1964	2829	3885	5154
	Power Input	(W)		523	648	773	901	1033
	Amps	(A)		2.45	2.98	3.53	4.11	4.72
140	Refrig. Capacity	(Btu/h)			1396	2086	2935	3967
	Power Input	(W)			636	788	943	1102
	Amps	(A)			3.04	3.69	4.37	5.07

* 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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50HZ R-454C

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1073	1751	2571	3555	4722	6095
	Power Input (W)	380	470	556	639	718	794
	Amps (A)	1.97	2.33	2.7	3.08	3.45	3.83
105	Refrig. Capacity (Btu/h)	791	1422	2174	3068	4126	5368
	Power Input (W)	362	464	565	665	764	861
	Amps (A)	1.88	2.32	2.77	3.23	3.68	4.14
120	Refrig. Capacity (Btu/h)		1075	1744	2535	3468	4563
	Power Input (W)		446	560	676	793	911
	Amps (A)		2.23	2.76	3.3	3.83	4.38
140	Refrig. Capacity (Btu/h)			1168	1798	2542	3420
	Power Input (W)			536	671	810	953
	Amps (A)			2.62	3.26	3.91	4.56

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50HZ R-455A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1137	1862	2717	3728	4918	6311
	Power Input (W)	395	495	588	676	756	829
	Amps (A)	2.04	2.44	2.85	3.26	3.67	4.08
105	Refrig. Capacity (Btu/h)	826	1512	2308	3238	4326	5595
	Power Input (W)	373	489	600	708	811	909
	Amps (A)	1.94	2.43	2.91	3.41	3.91	4.41
120	Refrig. Capacity (Btu/h)		1145	1866	2700	3670	4799
	Power Input (W)		469	598	725	850	973
	Amps (A)		2.34	2.92	3.49	4.08	4.66
140	Refrig. Capacity (Btu/h)			1278	1959	2748	3666
	Power Input (W)			575	727	880	1033
	Amps (A)			2.81	3.51	4.2	4.91