



tecumseh

AJ4480P

220 - 240V 1~ 50 Hz

Compressor

AJ4480P-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	1092	3723	61 dBA
R-404A	50HZ	1101	3756	
R-448A	50HZ	1089	3714	
R-449A	50HZ	1087	3708	
R-454C	50HZ	934	3184	
R-455A	50HZ	1026	3500	

(*) 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	20 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)	15.2
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)	3.75
Start Winding (Ohm)	12.55
Current RLA 50Hz (A)	4.4
Current MCC (A)	6.1
Current LRA (A)	24.1
Start Capacitor	88-101 µF / 250 V
Run Capacitor	15 µF / 400 V
Overload	T0155
- Time Check	7.5s - 14s / 15.3 A
- Open Temp / Close Temp	105 °C / 60 °C
Potential Relay	RVA 413D
- Pick Up / Drop Out	204-233 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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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)	1902	2638	3556	4697	6101	7814	9884	12361
	Power Input	(W)	449	505	557	604	644	677	702	717
	Amps	(A)	2.18	2.44	2.66	2.86	3.02	3.16	3.26	3.34
105	Refrig. Capacity	(Btu/h)	1493	2156	2967	3964	5187	6681	8496	10684
	Power Input	(W)	451	520	585	646	701	750	792	825
	Amps	(A)	2.12	2.46	2.76	3.04	3.29	3.51	3.69	3.85
120	Refrig. Capacity	(Btu/h)			2376	3228	4271	5547	7106	9005
	Power Input	(W)			604	680	752	817	876	928
	Amps	(A)			2.83	3.19	3.52	3.82	4.09	4.33
140	Refrig. Capacity	(Btu/h)				2244	3045	4029	5247	6759
	Power Input	(W)				712	806	896	981	1059
	Amps	(A)				3.32	3.76	4.17	4.56	4.91

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2010	2753	3678	4823	6229	7940	10005	12476
	Power Input	(W)	477	534	586	633	672	704	726	739
	Amps	(A)	2.32	2.57	2.8	2.99	3.15	3.28	3.38	3.44
105	Refrig. Capacity	(Btu/h)	1577	2243	3053	4045	5259	6738	8533	10698
	Power Input	(W)	482	552	618	678	732	779	819	849
	Amps	(A)	2.27	2.61	2.92	3.19	3.43	3.64	3.82	3.96
120	Refrig. Capacity	(Btu/h)		1733	2429	3270	4293	5541	7066	8926
	Power Input	(W)		560	640	715	786	849	906	954
	Amps	(A)		2.61	2.99	3.35	3.68	3.97	4.22	4.45
140	Refrig. Capacity	(Btu/h)			1601	2239	3009	3952	5119	6575
	Power Input	(W)			656	753	845	932	1013	1087
	Amps	(A)			3.04	3.51	3.94	4.34	4.71	5.04



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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)	1746	2475	3381	4504	5885	7569	9600	12028
	Power Input	(W)	420	471	520	565	604	636	660	675
	Amps	(A)	2.04	2.27	2.48	2.67	2.83	2.97	3.07	3.14
105	Refrig. Capacity	(Btu/h)		2048	2859	3853	5072	6560	8363	10532
	Power Input	(W)		488	549	607	660	707	747	778
	Amps	(A)		2.31	2.59	2.86	3.1	3.31	3.49	3.63
120	Refrig. Capacity	(Btu/h)			2340	3210	4271	5567	7145	9057
	Power Input	(W)			570	643	712	776	834	884
	Amps	(A)			2.67	3.01	3.33	3.63	3.89	4.12
140	Refrig. Capacity	(Btu/h)				2374	3230	4276	5560	7136
	Power Input	(W)				678	771	861	945	1023
	Amps	(A)				3.16	3.6	4.01	4.39	4.75

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1742	2470	3375	4498	5880	7565	9599	12032
	Power Input	(W)	420	471	520	565	604	636	660	675
	Amps	(A)	2.04	2.27	2.48	2.67	2.83	2.97	3.07	3.14
105	Refrig. Capacity	(Btu/h)		2043	2853	3847	5067	6556	8362	10535
	Power Input	(W)		488	549	607	660	707	747	778
	Amps	(A)		2.31	2.59	2.86	3.1	3.31	3.49	3.63
120	Refrig. Capacity	(Btu/h)			2334	3204	4265	5562	7144	9061
	Power Input	(W)			570	643	712	776	834	884
	Amps	(A)			2.67	3.01	3.33	3.63	3.89	4.12
140	Refrig. Capacity	(Btu/h)				2368	3224	4272	5558	7140
	Power Input	(W)				678	771	861	945	1023
	Amps	(A)				3.16	3.6	4.01	4.39	4.75

* 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)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2075	2865	3843	5044	6507	8272	10379
	Power Input	(W)		424	467	505	538	565	586	600
	Amps	(A)		2.02	2.21	2.39	2.54	2.66	2.74	2.78
105	Refrig. Capacity	(Btu/h)		1707	2421	3298	4374	5686	7276	9187
	Power Input	(W)		434	489	539	583	621	653	676
	Amps	(A)		2.06	2.31	2.54	2.75	2.93	3.07	3.17
120	Refrig. Capacity	(Btu/h)			1965	2736	3680	4835	6244	7952
	Power Input	(W)			500	566	625	678	723	761
	Amps	(A)			2.37	2.67	2.94	3.19	3.4	3.57
140	Refrig. Capacity	(Btu/h)				1991	2750	3686	4843	6267
	Power Input	(W)				579	665	743	813	874
	Amps	(A)				2.72	3.11	3.47	3.8	4.08

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2295	3163	4234	5549	7148	9074	11374
	Power Input	(W)		438	483	524	559	587	607	616
	Amps	(A)		2.1	2.31	2.49	2.65	2.77	2.85	2.9
105	Refrig. Capacity	(Btu/h)		1879	2667	3633	4816	6258	8003	10098
	Power Input	(W)		450	508	562	611	653	687	710
	Amps	(A)		2.15	2.42	2.67	2.89	3.08	3.23	3.34
120	Refrig. Capacity	(Btu/h)			2152	3005	4048	5324	6878	8759
	Power Input	(W)			519	590	655	714	765	806
	Amps	(A)			2.46	2.79	3.09	3.36	3.6	3.79
140	Refrig. Capacity	(Btu/h)				2161	3006	4047	5333	6914
	Power Input	(W)				599	692	778	857	926
	Amps	(A)				2.83	3.26	3.66	4.03	4.35