



tecumseh

AJ4480P

400V 3~ 50Hz / 440V 3~ 60 Hz

Compressor

AJ4480P-TZ1A

HBP

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

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	1114 / 1323	3800 / 4511	60 dBA
R-404A	50HZ / 60HZ	1124 / 1334	3834 / 4550	
R-448A	50HZ / 60HZ	1112 / 1319	3790 / 4499	
R-449A	50HZ / 60HZ	1110 / 1317	3784 / 4492	
R-454C	50HZ	952	3246	
R-455A	50HZ	1017	3469	

(*) 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	19 kg (42 lb)
Length	246 mm (9.7 in)
Width	178 mm (7 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	3PH
Main Winding (Ohm)	16.8
Current RLA 50Hz (A)	1.9
Current RLA 60Hz (A)	2
Current MCC (A)	3.2
Current LRA (A)	13
Overload	Internal

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)	1916	2668	3607	4772	6207	7956	10068	12595
	Power Input	(W)	438	497	551	598	639	672	696	711
	Amps	(A)	1.26	1.32	1.37	1.42	1.47	1.51	1.55	1.58
105	Refrig. Capacity	(Btu/h)	1500	2178	3010	4034	5290	6825	8689	10935
	Power Input	(W)	443	515	582	645	700	749	790	821
	Amps	(A)	1.24	1.32	1.39	1.46	1.53	1.6	1.66	1.71
120	Refrig. Capacity	(Btu/h)			2411	3290	4366	5684	7296	9259
	Power Input	(W)			604	682	754	819	877	926
	Amps	(A)			1.41	1.5	1.59	1.68	1.76	1.83
140	Refrig. Capacity	(Btu/h)				2293	3123	4148	5419	6999
	Power Input	(W)				715	810	899	981	1056
	Amps	(A)				1.54	1.66	1.77	1.88	1.99

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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2246	3165	4285	5651	7308	9308	11703	14552
	Power Input	(W)	514	601	678	745	803	852	891	922
	Amps	(A)	1.19	1.27	1.35	1.42	1.49	1.55	1.6	1.65
105	Refrig. Capacity	(Btu/h)	1709	2556	3570	4793	6272	8056	10202	12769
	Power Input	(W)	500	608	706	794	873	943	1004	1057
	Amps	(A)	1.15	1.26	1.37	1.47	1.57	1.66	1.74	1.82
120	Refrig. Capacity	(Btu/h)			2829	3898	5185	6742	8625	10898
	Power Input	(W)			718	828	929	1021	1105	1179
	Amps	(A)			1.37	1.51	1.63	1.76	1.87	1.98
140	Refrig. Capacity	(Btu/h)				2671	3683	4916	6427	8287
	Power Input	(W)				854	986	1108	1222	1327
	Amps	(A)				1.53	1.7	1.86	2.02	2.17



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-404A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	2024	2784	3730	4901	6337	8084	10191	12712
	Power Input (W)	465	525	579	627	667	699	721	732
	Amps (A)	1.33	1.39	1.44	1.49	1.53	1.57	1.6	1.63
105	Refrig. Capacity (Btu/h)	1584	2266	3098	4117	5364	6884	8727	10950
	Power Input (W)	473	546	614	676	731	778	816	845
	Amps (A)	1.32	1.4	1.47	1.54	1.6	1.66	1.71	1.76
120	Refrig. Capacity (Btu/h)		1750	2466	3332	4388	5679	7255	9178
	Power Input (W)		557	640	717	788	851	906	952
	Amps (A)		1.4	1.49	1.58	1.66	1.74	1.82	1.89
140	Refrig. Capacity (Btu/h)			1629	2288	3086	4068	5287	6808
	Power Input (W)			658	756	849	935	1014	1084
	Amps (A)			1.51	1.63	1.74	1.85	1.95	2.04

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60HZ R-404A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	2372	3302	4432	5803	7461	9458	11846	14687
	Power Input (W)	546	635	713	781	838	885	922	950
	Amps (A)	1.26	1.34	1.42	1.49	1.55	1.61	1.66	1.7
105	Refrig. Capacity (Btu/h)	1806	2658	3673	4892	6359	8125	10247	12786
	Power Input (W)	535	645	744	833	912	980	1038	1087
	Amps (A)	1.22	1.34	1.45	1.54	1.64	1.72	1.8	1.87
120	Refrig. Capacity (Btu/h)		2004	2893	3948	5212	6736	8577	10803
	Power Input (W)		639	760	871	971	1061	1142	1212
	Amps (A)		1.32	1.45	1.58	1.71	1.82	1.93	2.03
140	Refrig. Capacity (Btu/h)			1849	2665	3640	4822	6271	8061
	Power Input (W)			763	903	1033	1153	1263	1363
	Amps (A)			1.44	1.61	1.78	1.94	2.09	2.23



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Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1759	2503	3430	4577	5988	7706	9779	12256
	Power Input	(W)	409	463	514	560	599	632	655	668
	Amps	(A)	1.17	1.23	1.28	1.33	1.38	1.42	1.46	1.49
105	Refrig. Capacity	(Btu/h)		2069	2900	3921	5173	6701	8553	10779
	Power Input	(W)		483	546	606	659	707	745	775
	Amps	(A)		1.24	1.31	1.38	1.44	1.5	1.56	1.61
120	Refrig. Capacity	(Btu/h)			2375	3270	4366	5705	7336	9313
	Power Input	(W)			570	645	715	778	834	882
	Amps	(A)			1.33	1.42	1.51	1.59	1.67	1.75
140	Refrig. Capacity	(Btu/h)				2426	3314	4403	5742	7388
	Power Input	(W)				681	775	864	946	1020
	Amps	(A)				1.46	1.59	1.7	1.82	1.92

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2062	2970	4075	5419	7050	9015	11367	14159
	Power Input	(W)	481	560	632	697	753	800	839	867
	Amps	(A)	1.11	1.19	1.26	1.33	1.4	1.45	1.51	1.55
105	Refrig. Capacity	(Btu/h)		2428	3440	4660	6133	7910	10043	12588
	Power Input	(W)		571	662	746	822	890	948	997
	Amps	(A)		1.18	1.29	1.38	1.48	1.56	1.64	1.72
120	Refrig. Capacity	(Btu/h)			2787	3875	5185	6766	8673	10962
	Power Input	(W)			678	783	881	970	1051	1122
	Amps	(A)			1.3	1.43	1.55	1.67	1.78	1.88
140	Refrig. Capacity	(Btu/h)				2827	3908	5217	6810	8748
	Power Input	(W)				813	943	1065	1178	1282
	Amps	(A)				1.45	1.62	1.79	1.95	2.1

* 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-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1754	2498	3424	4571	5982	7702	9778	12259
	Power Input	(W)	409	463	514	560	599	632	655	668
	Amps	(A)	1.17	1.23	1.28	1.33	1.38	1.42	1.46	1.49
105	Refrig. Capacity	(Btu/h)		2064	2895	3915	5168	6697	8552	10783
	Power Input	(W)		483	546	606	659	707	745	775
	Amps	(A)		1.24	1.31	1.38	1.44	1.5	1.56	1.61
120	Refrig. Capacity	(Btu/h)			2369	3264	4360	5700	7335	9317
	Power Input	(W)			570	645	715	778	834	882
	Amps	(A)			1.33	1.42	1.51	1.59	1.67	1.75
140	Refrig. Capacity	(Btu/h)				2420	3308	4398	5741	7392
	Power Input	(W)				681	775	864	946	1020
	Amps	(A)				1.46	1.59	1.7	1.82	1.92

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2057	2964	4068	5412	7043	9010	11366	14164
	Power Input	(W)	481	560	632	697	753	800	839	867
	Amps	(A)	1.11	1.19	1.26	1.33	1.4	1.45	1.51	1.55
105	Refrig. Capacity	(Btu/h)		2422	3433	4652	6127	7905	10042	12592
	Power Input	(W)		571	662	746	822	890	948	997
	Amps	(A)		1.18	1.29	1.38	1.48	1.56	1.64	1.72
120	Refrig. Capacity	(Btu/h)			2780	3868	5178	6761	8671	10967
	Power Input	(W)			678	783	881	970	1051	1122
	Amps	(A)			1.3	1.43	1.55	1.67	1.78	1.88
140	Refrig. Capacity	(Btu/h)				2820	3901	5212	6808	8753
	Power Input	(W)				813	943	1065	1178	1282
	Amps	(A)				1.45	1.62	1.79	1.95	2.1

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50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2058	2852	3838	5054	6537	8329	10474
	Power Input	(W)		414	460	500	533	559	578	590
	Amps	(A)		1.3	1.34	1.38	1.41	1.44	1.46	1.48
105	Refrig. Capacity	(Btu/h)		1718	2428	3305	4384	5704	7307	9239
	Power Input	(W)		425	484	536	582	621	653	677
	Amps	(A)		1.3	1.36	1.42	1.47	1.51	1.55	1.59
120	Refrig. Capacity	(Btu/h)			2028	2798	3743	4903	6320	8042
	Power Input	(W)			497	564	625	678	724	764
	Amps	(A)			1.37	1.45	1.51	1.58	1.64	1.69
140	Refrig. Capacity	(Btu/h)				2167	2940	3891	5065	6511
	Power Input	(W)				579	663	739	808	869
	Amps	(A)				1.47	1.56	1.65	1.74	1.81

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2263	3110	4164	5462	7049	8969	11266
	Power Input	(W)		437	489	532	567	593	610	620
	Amps	(A)		1.32	1.37	1.41	1.44	1.46	1.48	1.49
105	Refrig. Capacity	(Btu/h)		1876	2642	3587	4750	6174	7905	9990
	Power Input	(W)		447	514	573	623	665	698	724
	Amps	(A)		1.32	1.39	1.45	1.5	1.55	1.59	1.62
120	Refrig. Capacity	(Btu/h)			2156	2985	4005	5259	6793	8657
	Power Input	(W)			525	600	667	725	776	818
	Amps	(A)			1.39	1.47	1.55	1.62	1.69	1.74
140	Refrig. Capacity	(Btu/h)				2180	2999	4013	5272	6827
	Power Input	(W)				615	705	787	860	926
	Amps	(A)				1.48	1.59	1.69	1.78	1.87