

Compressor

AJK480Z-TZ1C

M-HBP

R-404A / R-448A / R-449A / R-452A / R-22 / R-407C

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-407C	50HZ / 60HZ	1038 / 1232	3540 / 4203	
R-22	50HZ / 60HZ	1243 / 1476	4237 / 5033	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



Dimensions

Weight	19.3 kg (43 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	1
Compressor Cooling	Fan
Evaporating Temp. Range	-23.3°C to 12.8°C (-10°F to 55°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)	1.8
Current RLA 60Hz (A)	1.8
Current MCC (A)	4
Current LRA (A)	13
Overload	Internal

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)	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)	1088	1689	2411	3290	4366	5684	7296	9259
	Power Input	(W)	436	522	604	682	754	819	877	926
	Amps	(A)	1.21	1.31	1.41	1.5	1.59	1.68	1.76	1.83
140	Refrig. Capacity	(Btu/h)		1044	1612	2293	3123	4148	5419	6999
	Power Input	(W)		512	616	715	810	899	981	1056
	Amps	(A)		1.29	1.42	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)	1173	1934	2829	3898	5185	6742	8625	10898
	Power Input	(W)	469	599	718	828	929	1021	1105	1179
	Amps	(A)	1.09	1.23	1.37	1.51	1.63	1.76	1.87	1.98
140	Refrig. Capacity	(Btu/h)		1115	1829	2671	3683	4916	6427	8287
	Power Input	(W)		564	714	854	986	1108	1222	1327
	Amps	(A)		1.17	1.35	1.53	1.7	1.86	2.02	2.17

Performances are given at rating conditions ARI 520-90
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)	1150	1750	2466	3332	4388	5679	7255	9178
	Power Input	(W)	470	557	640	717	788	851	906	952
	Amps	(A)	1.3	1.4	1.49	1.58	1.66	1.74	1.82	1.89
140	Refrig. Capacity	(Btu/h)		1076	1629	2288	3086	4068	5287	6808
	Power Input	(W)		554	658	756	849	935	1014	1084
	Amps	(A)		1.39	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)	1244	2004	2893	3948	5212	6736	8577	10803
	Power Input	(W)	507	639	760	871	971	1061	1142	1212
	Amps	(A)	1.17	1.32	1.45	1.58	1.71	1.82	1.93	2.03
140	Refrig. Capacity	(Btu/h)		1152	1849	2665	3640	4822	6271	8061
	Power Input	(W)		612	763	903	1033	1153	1263	1363
	Amps	(A)		1.27	1.44	1.61	1.78	1.94	2.09	2.23

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)	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)	1388	2069	2900	3921	5173	6701	8553	10779
	Power Input (W)	418	483	546	606	659	707	745	775
	Amps (A)	1.17	1.24	1.31	1.38	1.44	1.5	1.56	1.61
120	Refrig. Capacity (Btu/h)	1020	1637	2375	3270	4366	5705	7336	9313
	Power Input (W)	413	493	570	645	715	778	834	882
	Amps (A)	1.15	1.24	1.33	1.42	1.51	1.59	1.67	1.75
140	Refrig. Capacity (Btu/h)			1695	2426	3314	4403	5742	7388
	Power Input (W)			583	681	775	864	946	1020
	Amps (A)			1.34	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)	1582	2428	3440	4660	6133	7910	10043	12588
	Power Input (W)	472	571	662	746	822	890	948	997
	Amps (A)	1.08	1.18	1.29	1.38	1.48	1.56	1.64	1.72
120	Refrig. Capacity (Btu/h)	1097	1875	2787	3875	5185	6766	8673	10962
	Power Input (W)	446	565	678	783	881	970	1051	1122
	Amps (A)	1.03	1.17	1.3	1.43	1.55	1.67	1.78	1.88
140	Refrig. Capacity (Btu/h)			1924	2827	3908	5217	6810	8748
	Power Input (W)			676	813	943	1065	1178	1282
	Amps (A)			1.28	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.

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

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)	1384	2064	2895	3915	5168	6697	8552	10783
	Power Input	(W)	418	483	546	606	659	707	745	775
	Amps	(A)	1.17	1.24	1.31	1.38	1.44	1.5	1.56	1.61
120	Refrig. Capacity	(Btu/h)	1016	1632	2369	3264	4360	5700	7335	9317
	Power Input	(W)	413	493	570	645	715	778	834	882
	Amps	(A)	1.15	1.24	1.33	1.42	1.51	1.59	1.67	1.75
140	Refrig. Capacity	(Btu/h)			1690	2420	3308	4398	5741	7392
	Power Input	(W)			583	681	775	864	946	1020
	Amps	(A)			1.34	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)	1577	2422	3433	4652	6127	7905	10042	12592
	Power Input	(W)	472	571	662	746	822	890	948	997
	Amps	(A)	1.08	1.18	1.29	1.38	1.48	1.56	1.64	1.72
120	Refrig. Capacity	(Btu/h)	1093	1869	2780	3868	5178	6761	8671	10967
	Power Input	(W)	446	565	678	783	881	970	1051	1122
	Amps	(A)	1.03	1.17	1.3	1.43	1.55	1.67	1.78	1.88
140	Refrig. Capacity	(Btu/h)			1918	2820	3901	5212	6808	8753
	Power Input	(W)			676	813	943	1065	1178	1282
	Amps	(A)			1.28	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.

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2280	3139	4218	5557	7199	9190	11577
	Power Input	(W)		436	486	529	564	592	612	622
	Amps	(A)		1.16	1.21	1.26	1.3	1.33	1.36	1.39
105	Refrig. Capacity	(Btu/h)			2668	3631	4826	6294	8084	10242
	Power Input	(W)			513	571	622	666	701	729
	Amps	(A)			1.23	1.3	1.36	1.42	1.47	1.52
120	Refrig. Capacity	(Btu/h)				3043	4094	5390	6978	8909
	Power Input	(W)				604	672	732	786	831
	Amps	(A)				1.33	1.42	1.5	1.57	1.65
140	Refrig. Capacity	(Btu/h)					3143	4211	5533	7161
	Power Input	(W)					722	808	887	958
	Amps	(A)					1.48	1.59	1.7	1.81

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60HZ R-407C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		2705	3730	4994	6542	8422	10683	13375
	Power Input	(W)		528	598	658	709	751	783	807
	Amps	(A)		1.12	1.19	1.26	1.31	1.36	1.41	1.44
105	Refrig. Capacity	(Btu/h)			3164	4315	5721	7430	9492	11960
	Power Input	(W)			622	703	775	838	892	938
	Amps	(A)			1.21	1.3	1.39	1.47	1.55	1.62
120	Refrig. Capacity	(Btu/h)				3605	4862	6393	8250	10487
	Power Input	(W)				734	828	913	990	1058
	Amps	(A)				1.33	1.46	1.57	1.68	1.78
140	Refrig. Capacity	(Btu/h)					3707	4991	6562	8479
	Power Input	(W)					878	995	1104	1204
	Amps	(A)					1.51	1.67	1.82	1.97

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)	2782	3510	4439	5571	6906	8444	10185
	Power Input	(W)	546	599	648	692	733	769	801
	Amps	(A)	1.32	1.37	1.41	1.46	1.5	1.53	1.56
120	Refrig. Capacity	(Btu/h)	2232	2900	3746	4773	5979	7365	8932
	Power Input	(W)	525	596	663	725	783	836	884
	Amps	(A)	1.27	1.35	1.43	1.5	1.57	1.64	1.71
140	Refrig. Capacity	(Btu/h)	1467	2066	2814	3711	4758	5955	7302
	Power Input	(W)	501	597	688	773	854	928	998
	Amps	(A)	1.21	1.33	1.44	1.56	1.67	1.79	1.9

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60HZ R-22

Condensing	Evaporating	(°F)	-5	5	15	25	35	45	55
105	Refrig. Capacity	(Btu/h)	3286	4172	5279	6608	8158	9931	11925
	Power Input	(W)	647	729	803	870	930	983	1028
	Amps	(A)	1.3	1.38	1.45	1.51	1.57	1.62	1.67
120	Refrig. Capacity	(Btu/h)	2637	3448	4455	5660	7062	8662	10460
	Power Input	(W)	622	726	822	912	994	1069	1136
	Amps	(A)	1.26	1.36	1.46	1.55	1.65	1.74	1.83
140	Refrig. Capacity	(Btu/h)	1735	2459	3347	4400	5619	7003	8553
	Power Input	(W)	593	726	852	971	1082	1186	1283
	Amps	(A)	1.2	1.34	1.48	1.62	1.76	1.89	2.03