



tecumseh

CAJ9510Z

220 - 240V 1~ 50 Hz

Compressor

AJK510Z-FZ3B

M-HBP

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

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	1413	4818	63 dBA
R-404A	50HZ	1453	4956	
R-448A	50HZ	1341	4574	
R-449A	50HZ	1341	4574	
R-407C	50HZ	1235	4211	
R-22	50HZ	1328	4530	

(*) Operating conditions EN12900 : Dew / T°Cond. 45°C / T°Evap -10°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	21.5 kg (47 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	280 mm (11 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	18.3
Horse Power	1 1/4 hp
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 cSt@40°C
Oil Charge (cc)	475

Electrical

Motor Type	CSR
Main Winding (Ohm)	2.9
Start Winding (Ohm)	8.8
Current RLA 50Hz (A)	5.4
Current MCC (A)	8.4
Current LRA (A)	29.5
Start Capacitor	100-115 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MRA38128
- Time Check	2.8s - 5.2s / 20.5 A
- Open Temp / Close Temp	105 °C / 52 °C
Potential Relay	RVA 403D
- Pick Up / Drop Out	280-310 V / 60-121 V

Note : Tecumseh reserves the right to change information contained in this document without notification.



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Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	904	1170	1489	1867	2313	2834	3438	4132	4925
	Power Input (W)	550	608	663	714	760	800	833	859	878
	Amps (A)	2.69	2.94	3.18	3.4	3.61	3.8	3.99	4.15	4.31
40	Refrig. Capacity (Watt)	722	962	1241	1567	1947	2390	2902	3492	4167
	Power Input (W)	564	638	709	777	841	901	955	1003	1044
	Amps (A)	2.67	3.01	3.34	3.65	3.95	4.23	4.51	4.77	5.02
50	Refrig. Capacity (Watt)		745	984	1257	1571	1934	2354	2838	3395
	Power Input (W)		651	740	826	910	990	1066	1137	1202
	Amps (A)		3.04	3.45	3.86	4.25	4.63	4.99	5.35	5.69
60	Refrig. Capacity (Watt)			720	938	1185	1468	1794	2172	2609
	Power Input (W)			756	862	966	1068	1167	1261	1351
	Amps (A)			3.53	4.02	4.51	4.98	5.44	5.89	6.33

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	964	1234	1555	1935	2380	2898	3496	4182	4962
	Power Input (W)	583	642	698	748	793	832	864	888	903
	Amps (A)	2.85	3.1	3.34	3.56	3.77	3.96	4.13	4.29	4.43
40	Refrig. Capacity (Watt)	771	1013	1292	1616	1991	2426	2927	3501	4156
	Power Input (W)	601	676	748	816	879	937	989	1035	1072
	Amps (A)	2.85	3.19	3.52	3.83	4.13	4.41	4.67	4.92	5.15
50	Refrig. Capacity (Watt)		785	1022	1289	1594	1945	2348	2811	3340
	Power Input (W)		695	784	870	953	1031	1104	1172	1232
	Amps (A)		3.24	3.66	4.06	4.45	4.82	5.17	5.51	5.83
60	Refrig. Capacity (Watt)			746	957	1191	1457	1762	2112	2516
	Power Input (W)			807	912	1015	1114	1209	1299	1384
	Amps (A)			3.77	4.26	4.73	5.19	5.64	6.07	6.48



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Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	796	1057	1369	1742	2184	2704	3311	4012	4818
	Power Input (W)	513	566	618	667	712	751	784	809	825
	Amps (A)	2.51	2.74	2.96	3.17	3.38	3.57	3.75	3.91	4.06
40	Refrig. Capacity (Watt)	636	873	1150	1476	1860	2310	2834	3442	4143
	Power Input (W)	531	598	665	730	791	849	901	946	984
	Amps (A)	2.52	2.83	3.13	3.43	3.71	3.99	4.25	4.5	4.73
50	Refrig. Capacity (Watt)		684	927	1207	1532	1913	2356	2871	3467
	Power Input (W)		615	699	782	863	941	1015	1084	1145
	Amps (A)		2.87	3.26	3.65	4.03	4.4	4.75	5.1	5.42
60	Refrig. Capacity (Watt)			706	940	1208	1520	1882	2305	2797
	Power Input (W)			716	820	924	1025	1123	1217	1306
	Amps (A)			3.34	3.83	4.31	4.78	5.24	5.68	6.11

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	796	1057	1369	1742	2184	2704	3311	4012	4818
	Power Input (W)	513	566	618	667	712	751	784	809	825
	Amps (A)	2.51	2.74	2.96	3.17	3.38	3.57	3.75	3.91	4.06
40	Refrig. Capacity (Watt)	636	873	1150	1476	1860	2310	2834	3442	4143
	Power Input (W)	531	598	665	730	791	849	901	946	984
	Amps (A)	2.52	2.83	3.13	3.43	3.71	3.99	4.25	4.5	4.73
50	Refrig. Capacity (Watt)		684	927	1207	1532	1913	2356	2871	3467
	Power Input (W)		615	699	782	863	941	1015	1084	1145
	Amps (A)		2.87	3.26	3.65	4.03	4.4	4.75	5.1	5.42
60	Refrig. Capacity (Watt)			706	940	1208	1520	1882	2305	2797
	Power Input (W)			716	820	924	1025	1123	1217	1306
	Amps (A)			3.34	3.83	4.31	4.78	5.24	5.68	6.11

* 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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220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-407C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)			1242	1593	2013	2511	3096	3776	4560
	Power Input (W)			585	630	670	704	731	751	763
	Amps (A)			2.8	3	3.18	3.35	3.5	3.63	3.75
40	Refrig. Capacity (Watt)				1356	1723	2157	2668	3263	3951
	Power Input (W)				688	747	800	848	890	925
	Amps (A)				3.23	3.5	3.76	4	4.23	4.45
50	Refrig. Capacity (Watt)					1427	1798	2234	2744	3337
	Power Input (W)					810	885	955	1021	1080
	Amps (A)					3.78	4.14	4.48	4.8	5.11
60	Refrig. Capacity (Watt)						1442	1804	2230	2727
	Power Input (W)						958	1052	1142	1227
	Amps (A)						4.46	4.9	5.33	5.75

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50HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	890	1139	1432	1779	2187	2665	3221	3863
	Power Input (W)	601	662	717	767	812	853	889	921
	Amps (A)	2.9	3.17	3.42	3.64	3.84	4.02	4.18	4.32
50	Refrig. Capacity (Watt)	741	965	1224	1527	1882	2297	2781	3342
	Power Input (W)	624	704	779	847	910	968	1021	1070
	Amps (A)	2.99	3.34	3.68	3.99	4.28	4.54	4.79	5.01
60	Refrig. Capacity (Watt)		787	1015	1277	1582	1938	2352	2835
	Power Input (W)		730	827	917	1002	1082	1155	1224
	Amps (A)		3.49	3.91	4.3	4.68	5.03	5.36	5.67