



tecumseh

CAJ9513Z

220 - 240V 1~ 50 Hz

Compressor

AJK513Z-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	1776	6057	64 dBA
R-404A	50HZ	1827	6229	
R-448A	50HZ	1686	5751	
R-449A	50HZ	1686	5751	
R-407C	50HZ	1552	5294	
R-22	50HZ	1715	5849	

(*) 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	21.4 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)	24.2
Horse Power	1 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)	2.7
Start Winding (Ohm)	7.9
Current RLA 50Hz (A)	6.7
Current MCC (A)	11.3
Current LRA (A)	33.1
Start Capacitor	88-101 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MST16AHW
- Time Check	2.8s - 5.2s / 32.5 A
- Open Temp / Close Temp	135 °C / 61 °C
Potential Relay	RVA 3AN3D
- Pick Up / Drop Out	260-289 V / 50-110 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)	1099	1462	1899	2418	3025	3730	4541	5465	6512
	Power Input (W)	618	697	770	836	897	953	1006	1054	1100
	Amps (A)	3.44	3.72	3.99	4.24	4.47	4.69	4.89	5.08	5.25
40	Refrig. Capacity (Watt)	841	1166	1546	1990	2506	3102	3785	4565	5449
	Power Input (W)	620	724	821	910	992	1068	1139	1206	1268
	Amps (A)	3.38	3.79	4.18	4.56	4.92	5.27	5.6	5.92	6.23
50	Refrig. Capacity (Watt)		862	1188	1560	1987	2475	3035	3672	4397
	Power Input (W)		722	849	968	1079	1182	1279	1371	1457
	Amps (A)		3.76	4.28	4.79	5.29	5.77	6.24	6.69	7.13
60	Refrig. Capacity (Watt)			815	1118	1458	1843	2280	2778	3346
	Power Input (W)			834	989	1135	1274	1404	1528	1645
	Amps (A)			4.29	4.93	5.56	6.18	6.78	7.37	7.94

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1171	1542	1984	2505	3113	3815	4619	5531	6560
	Power Input (W)	654	736	809	876	937	992	1043	1088	1131
	Amps (A)	3.65	3.93	4.19	4.44	4.67	4.88	5.07	5.24	5.4
40	Refrig. Capacity (Watt)	900	1228	1610	2053	2563	3149	3818	4577	5435
	Power Input (W)	662	768	865	955	1037	1112	1181	1244	1302
	Amps (A)	3.6	4.02	4.41	4.79	5.14	5.48	5.81	6.11	6.4
50	Refrig. Capacity (Watt)		908	1233	1600	2016	2489	3027	3637	4326
	Power Input (W)		772	900	1019	1129	1231	1325	1413	1494
	Amps (A)		4.02	4.54	5.05	5.54	6.01	6.46	6.89	7.31
60	Refrig. Capacity (Watt)			845	1140	1465	1829	2239	2702	3226
	Power Input (W)			892	1047	1192	1328	1455	1573	1684
	Amps (A)			4.58	5.22	5.84	6.44	7.02	7.59	8.14



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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)	968	1320	1747	2256	2857	3560	4373	5307	6370
	Power Input (W)	576	649	717	781	841	896	946	992	1034
	Amps (A)	3.21	3.47	3.72	3.96	4.19	4.4	4.6	4.78	4.93
40	Refrig. Capacity (Watt)	742	1059	1433	1875	2394	2998	3697	4501	5418
	Power Input (W)	585	680	770	854	933	1007	1075	1138	1195
	Amps (A)	3.18	3.56	3.92	4.28	4.63	4.97	5.29	5.59	5.87
50	Refrig. Capacity (Watt)		791	1119	1498	1938	2448	3037	3715	4491
	Power Input (W)		682	802	916	1023	1124	1218	1306	1388
	Amps (A)		3.55	4.05	4.54	5.02	5.48	5.94	6.38	6.79
60	Refrig. Capacity (Watt)			800	1121	1487	1907	2391	2948	3588
	Power Input (W)			790	941	1086	1222	1352	1474	1589
	Amps (A)			4.06	4.69	5.31	5.93	6.53	7.11	7.68

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	968	1320	1747	2256	2857	3560	4373	5307	6370
	Power Input (W)	576	649	717	781	841	896	946	992	1034
	Amps (A)	3.21	3.47	3.72	3.96	4.19	4.4	4.6	4.78	4.93
40	Refrig. Capacity (Watt)	742	1059	1433	1875	2394	2998	3697	4501	5418
	Power Input (W)	585	680	770	854	933	1007	1075	1138	1195
	Amps (A)	3.18	3.56	3.92	4.28	4.63	4.97	5.29	5.59	5.87
50	Refrig. Capacity (Watt)		791	1119	1498	1938	2448	3037	3715	4491
	Power Input (W)		682	802	916	1023	1124	1218	1306	1388
	Amps (A)		3.55	4.05	4.54	5.02	5.48	5.94	6.38	6.79
60	Refrig. Capacity (Watt)			800	1121	1487	1907	2391	2948	3588
	Power Input (W)			790	941	1086	1222	1352	1474	1589
	Amps (A)			4.06	4.69	5.31	5.93	6.53	7.11	7.68

* 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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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)			1585	2063	2633	3306	4090	4994	6030
	Power Input (W)			679	738	791	839	882	921	956
	Amps (A)			3.52	3.74	3.94	4.12	4.29	4.43	4.57
40	Refrig. Capacity (Watt)				1723	2218	2800	3479	4265	5167
	Power Input (W)				805	880	949	1012	1070	1123
	Amps (A)				4.04	4.37	4.68	4.98	5.26	5.52
50	Refrig. Capacity (Watt)					1805	2301	2880	3550	4322
	Power Input (W)					960	1057	1147	1231	1309
	Amps (A)					4.71	5.16	5.59	6.01	6.41
60	Refrig. Capacity (Watt)						1810	2292	2852	3498
	Power Input (W)						1142	1266	1383	1494
	Amps (A)						5.54	6.11	6.67	7.22

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50HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	1111	1460	1874	2362	2930	3585	4336	5189
	Power Input (W)	709	795	873	945	1011	1073	1130	1184
	Amps (A)	3.71	4.05	4.38	4.69	4.99	5.28	5.55	5.82
50	Refrig. Capacity (Watt)	886	1194	1556	1981	2474	3044	3698	4442
	Power Input (W)	721	836	942	1041	1133	1219	1301	1378
	Amps (A)	3.75	4.22	4.67	5.11	5.53	5.94	6.35	6.74
60	Refrig. Capacity (Watt)		923	1237	1603	2026	2514	3076	3717
	Power Input (W)		841	983	1115	1240	1358	1469	1576
	Amps (A)		4.32	4.9	5.46	6.01	6.55	7.09	7.61