



tecumseh

AJ4513P

220 - 240V 1~ 50 Hz

Compressor

AJ4513P-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	3035	10348	64 dBA
R-404A	50HZ	3027	10323	
R-448A	50HZ	3037	10357	
R-449A	50HZ	3037	10357	
R-454C	50HZ	2618	8928	
R-455A	50HZ	2867	9777	

(*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°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
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)	2.67
Start Winding (Ohm)	7.89
Current RLA 50Hz (A)	6.8
Current MCC (A)	11.5
Current LRA (A)	33
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

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

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)		1166	1546	1990	2506	3102	3785	4565	5449
	Power Input (W)		724	821	910	992	1068	1139	1206	1268
	Amps (A)		3.79	4.18	4.56	4.92	5.27	5.6	5.92	6.23
50	Refrig. Capacity (Watt)			1188	1560	1987	2475	3035	3672	4397
	Power Input (W)			849	968	1079	1182	1279	1371	1457
	Amps (A)			4.28	4.79	5.29	5.77	6.24	6.69	7.13
60	Refrig. Capacity (Watt)				1118	1458	1843	2280	2778	3346
	Power Input (W)				989	1135	1274	1404	1528	1645
	Amps (A)				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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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)		1059	1433	1875	2394	2998	3697	4501	5418
	Power Input (W)		680	770	854	933	1007	1075	1138	1195
	Amps (A)		3.56	3.92	4.28	4.63	4.97	5.29	5.59	5.87
50	Refrig. Capacity (Watt)			1119	1498	1938	2448	3037	3715	4491
	Power Input (W)			802	916	1023	1124	1218	1306	1388
	Amps (A)			4.05	4.54	5.02	5.48	5.94	6.38	6.79
60	Refrig. Capacity (Watt)				1121	1487	1907	2391	2948	3588
	Power Input (W)				941	1086	1222	1352	1474	1589
	Amps (A)				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)		1059	1433	1875	2394	2998	3697	4501	5418
	Power Input (W)		680	770	854	933	1007	1075	1138	1195
	Amps (A)		3.56	3.92	4.28	4.63	4.97	5.29	5.59	5.87
50	Refrig. Capacity (Watt)			1119	1498	1938	2448	3037	3715	4491
	Power Input (W)			802	916	1023	1124	1218	1306	1388
	Amps (A)			4.05	4.54	5.02	5.48	5.94	6.38	6.79
60	Refrig. Capacity (Watt)				1121	1487	1907	2391	2948	3588
	Power Input (W)				941	1086	1222	1352	1474	1589
	Amps (A)				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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Conditions DEW

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

50HZ R-454C



Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	781	1086	1458	1906	2439	3067	3801	4649	5620
	Power Input	(W)	530	597	656	705	746	778	799	811	813
	Amps	(A)	2.87	3.13	3.36	3.56	3.73	3.86	3.97	4.05	4.09
40	Refrig. Capacity	(Watt)		865	1190	1578	2038	2580	3214	3950	4797
	Power Input	(W)		621	702	776	841	898	947	987	1018
	Amps	(A)		3.19	3.54	3.86	4.15	4.41	4.64	4.83	5
50	Refrig. Capacity	(Watt)			922	1247	1632	2086	2618	3239	3958
	Power Input	(W)			726	823	913	997	1073	1142	1202
	Amps	(A)			3.64	4.08	4.49	4.87	5.22	5.53	5.82
60	Refrig. Capacity	(Watt)				931	1237	1600	2029	2533	3122
	Power Input	(W)				853	969	1079	1183	1281	1372
	Amps	(A)				4.22	4.75	5.24	5.71	6.15	6.55

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50HZ R-455A



Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	900	1229	1627	2105	2674	3347	4135	5050	6103
	Power Input	(W)	560	628	689	742	786	821	847	861	865
	Amps	(A)	2.92	3.18	3.44	3.68	3.89	4.07	4.19	4.26	4.26
40	Refrig. Capacity	(Watt)		987	1337	1752	2244	2825	3506	4299	5215
	Power Input	(W)		654	738	816	886	949	1003	1048	1084
	Amps	(A)		3.33	3.67	4.01	4.32	4.61	4.86	5.06	5.19
50	Refrig. Capacity	(Watt)			1042	1394	1808	2295	2867	3536	4314
	Power Input	(W)			762	865	963	1054	1139	1216	1285
	Amps	(A)			3.79	4.24	4.68	5.1	5.49	5.84	6.13
60	Refrig. Capacity	(Watt)				1046	1380	1772	2235	2779	3417
	Power Input	(W)				893	1019	1141	1257	1367	1471
	Amps	(A)				4.34	4.92	5.49	6.04	6.56	7.04