



tecumseh

AJ4510P

220 - 240V 1~ 50 Hz

Compressor

AJ4510P-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	2354	8027	63 dBA
R-404A	50HZ	2348	8007	
R-448A	50HZ	2356	8034	
R-449A	50HZ	2356	8034	
R-454C	50HZ	1992	6791	
R-455A	50HZ	2170	7400	

(*) 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	21.5 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	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	CSR
Main Winding (Ohm)	2.94
Start Winding (Ohm)	8.83
Current RLA 50Hz (A)	5.4
Current MCC (A)	7.5
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

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)	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)		962	1241	1567	1947	2390	2902	3492	4167
	Power Input (W)		638	709	777	841	901	955	1003	1044
	Amps (A)		3.01	3.34	3.65	3.95	4.23	4.51	4.77	5.02
50	Refrig. Capacity (Watt)			984	1257	1571	1934	2354	2838	3395
	Power Input (W)			740	826	910	990	1066	1137	1202
	Amps (A)			3.45	3.86	4.25	4.63	4.99	5.35	5.69
60	Refrig. Capacity (Watt)				938	1185	1468	1794	2172	2609
	Power Input (W)				862	966	1068	1167	1261	1351
	Amps (A)				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)		873	1150	1476	1860	2310	2834	3442	4143
	Power Input (W)		598	665	730	791	849	901	946	984
	Amps (A)		2.83	3.13	3.43	3.71	3.99	4.25	4.5	4.73
50	Refrig. Capacity (Watt)			927	1207	1532	1913	2356	2871	3467
	Power Input (W)			699	782	863	941	1015	1084	1145
	Amps (A)			3.26	3.65	4.03	4.4	4.75	5.1	5.42
60	Refrig. Capacity (Watt)				940	1208	1520	1882	2305	2797
	Power Input (W)				820	924	1025	1123	1217	1306
	Amps (A)				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)		873	1150	1476	1860	2310	2834	3442	4143
	Power Input (W)		598	665	730	791	849	901	946	984
	Amps (A)		2.83	3.13	3.43	3.71	3.99	4.25	4.5	4.73
50	Refrig. Capacity (Watt)			927	1207	1532	1913	2356	2871	3467
	Power Input (W)			699	782	863	941	1015	1084	1145
	Amps (A)			3.26	3.65	4.03	4.4	4.75	5.1	5.42
60	Refrig. Capacity (Watt)				940	1208	1520	1882	2305	2797
	Power Input (W)				820	924	1025	1123	1217	1306
	Amps (A)				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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Performances are given at rating conditions EN12900
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)	726	941	1200	1510	1879	2313	2820	3407	4082
	Power Input	(W)	472	517	563	606	647	683	713	735	747
	Amps	(A)	2.32	2.53	2.74	2.94	3.13	3.29	3.41	3.49	3.5
40	Refrig. Capacity	(Watt)		782	1009	1276	1592	1964	2399	2905	3488
	Power Input	(W)		545	601	656	708	756	798	832	858
	Amps	(A)		2.65	2.9	3.16	3.4	3.62	3.81	3.95	4.05
50	Refrig. Capacity	(Watt)			822	1049	1315	1626	1992	2418	2912
	Power Input	(W)			636	707	776	841	900	952	996
	Amps	(A)			3.05	3.38	3.7	4	4.28	4.52	4.72
60	Refrig. Capacity	(Watt)				831	1048	1302	1599	1948	2354
	Power Input	(W)				733	824	911	992	1067	1133
	Amps	(A)				3.51	3.93	4.34	4.73	5.09	5.41

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50HZ R-455A



Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	726	970	1259	1601	2005	2477	3026	3659	4384
	Power Input	(W)	480	538	586	628	664	697	729	760	794
	Amps	(A)	2.38	2.62	2.84	3.03	3.2	3.35	3.49	3.6	3.7
40	Refrig. Capacity	(Watt)		788	1047	1350	1705	2120	2601	3158	3797
	Power Input	(W)		554	625	687	741	789	833	875	916
	Amps	(A)		2.71	3.02	3.3	3.55	3.78	3.98	4.16	4.32
50	Refrig. Capacity	(Watt)			832	1095	1401	1757	2170	2649	3202
	Power Input	(W)			638	726	804	874	938	996	1053
	Amps	(A)			3.08	3.48	3.84	4.17	4.47	4.74	4.98
60	Refrig. Capacity	(Watt)				844	1100	1396	1740	2141	2606
	Power Input	(W)				740	848	946	1036	1118	1195
	Amps	(A)				3.54	4.05	4.51	4.93	5.32	5.67