



tecumseh

AJ2446P

220 - 240V 1~ 50 Hz

Compressor

AJ2446P-FZ3A

LBP

R-404A / 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	577	1967	57 dBA
R-404A	50HZ	627	2137	
R-448A	50HZ	489	1666	
R-449A	50HZ	489	1666	
R-454C	50HZ	427	1456	
R-455A	50HZ	452	1541	

(*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	21.7 kg (48 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	280 mm (11 in)
Ø Suction Tube	1/2 in (12.7mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	26.2
Horse Power	1-1/4
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -10°C (-40°F to 14°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)	8.8
Current RLA 50Hz (A)	3.9
Current MCC (A)	8.1
Current LRA (A)	29.5
Start Capacitor	88-101 µF / 330 V
Run Capacitor	15 µF / 400 V
Overload	MST18AIN-3291
- Time Check	7.5s - 14s / 20.7 A
- Open Temp / Close Temp	120 °C / 69 °C
Potential Relay	RVA 4O3D
- 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)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	522	734	990	1296	1657	2079	2568
	Power Input (W)	481	561	641	721	803	886	971
	Amps (A)	2.27	2.57	2.89	3.25	3.64	4.07	4.54
40	Refrig. Capacity (Watt)	389	577	801	1067	1382	1751	2180
	Power Input (W)	460	557	656	755	857	962	1070
	Amps (A)	2.18	2.56	2.97	3.41	3.88	4.38	4.92
50	Refrig. Capacity (Watt)			607	830	1094	1406	1770
	Power Input (W)			652	771	894	1020	1151
	Amps (A)			3.02	3.53	4.08	4.66	5.27
60	Refrig. Capacity (Watt)				598	807	1056	1352
	Power Input (W)				772	915	1063	1216
	Amps (A)				3.63	4.25	4.9	5.58

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50HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	572	798	1067	1385	1756	2184	2674
	Power Input (W)	516	602	688	772	856	939	1022
	Amps (A)	2.44	2.76	3.1	3.48	3.89	4.32	4.78
40	Refrig. Capacity (Watt)	429	627	859	1133	1451	1819	2241
	Power Input (W)	501	604	707	810	915	1020	1128
	Amps (A)	2.38	2.77	3.2	3.65	4.13	4.64	5.18
50	Refrig. Capacity (Watt)		457	651	878	1141	1447	1799
	Power Input (W)		587	708	831	956	1085	1217
	Amps (A)		2.77	3.28	3.81	4.36	4.95	5.56
60	Refrig. Capacity (Watt)			449	626	834	1075	1354
	Power Input (W)			694	837	984	1135	1292
	Amps (A)			3.33	3.94	4.58	5.24	5.93



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Conditions DEW

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Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	418	622	875	1180	1544	1972	2471
	Power Input (W)	440	521	600	680	759	840	921
	Amps (A)	2.08	2.38	2.71	3.06	3.45	3.86	4.31
40	Refrig. Capacity (Watt)		489	707	973	1291	1667	2106
	Power Input (W)		524	620	716	813	912	1013
	Amps (A)		2.41	2.81	3.23	3.67	4.15	4.65
50	Refrig. Capacity (Watt)			546	772	1043	1366	1747
	Power Input (W)			622	737	854	973	1095
	Amps (A)			2.88	3.38	3.9	4.44	5.01
60	Refrig. Capacity (Watt)				588	814	1084	1405
	Power Input (W)				742	880	1022	1167
	Amps (A)				3.5	4.1	4.72	5.36

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50HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	418	622	875	1180	1544	1972	2471
	Power Input (W)	440	521	600	680	759	840	921
	Amps (A)	2.08	2.38	2.71	3.06	3.45	3.86	4.31
40	Refrig. Capacity (Watt)		489	707	973	1291	1667	2106
	Power Input (W)		524	620	716	813	912	1013
	Amps (A)		2.41	2.81	3.23	3.67	4.15	4.65
50	Refrig. Capacity (Watt)			546	772	1043	1366	1747
	Power Input (W)			622	737	854	973	1095
	Amps (A)			2.88	3.38	3.9	4.44	5.01
60	Refrig. Capacity (Watt)				588	814	1084	1405
	Power Input (W)				742	880	1022	1167
	Amps (A)				3.5	4.1	4.72	5.36

* 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)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	352	541	766	1032	1345	1708	2127
	Power Input (W)	383	461	535	606	674	739	800
	Amps (A)	1.98	2.29	2.6	2.92	3.24	3.56	3.88
40	Refrig. Capacity (Watt)		427	633	874	1156	1482	1858
	Power Input (W)		454	545	634	723	810	895
	Amps (A)		2.28	2.68	3.08	3.49	3.9	4.31
50	Refrig. Capacity (Watt)			485	695	940	1224	1551
	Power Input (W)			536	641	748	856	965
	Amps (A)			2.65	3.14	3.63	4.12	4.62
60	Refrig. Capacity (Watt)				509	711	946	1219
	Power Input (W)				630	754	881	1011
	Amps (A)				3.07	3.65	4.23	4.82

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50HZ R-455A



Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	373	573	807	1080	1397	1764	2185
	Power Input (W)	399	485	566	641	710	773	830
	Amps (A)	2.06	2.4	2.74	3.09	3.44	3.79	4.14
40	Refrig. Capacity (Watt)		452	670	920	1209	1542	1923
	Power Input (W)		478	578	675	768	857	942
	Amps (A)		2.38	2.82	3.25	3.69	4.14	4.59
50	Refrig. Capacity (Watt)			517	739	994	1286	1621
	Power Input (W)			571	688	804	918	1030
	Amps (A)			2.79	3.32	3.86	4.39	4.93
60	Refrig. Capacity (Watt)				552	766	1012	1294
	Power Input (W)				682	819	957	1095
	Amps (A)				3.3	3.92	4.55	5.19