



tecumseh

AJ4517P

220 - 240V 1~ 50 Hz

Compressor

AJ4517P-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	1915	6530	64 dBA
R-404A	50HZ	1928	6573	
R-448A	50HZ	1906	6500	
R-449A	50HZ	1903	6490	
R-454C	50HZ	1658	5653	
R-455A	50HZ	1772	6041	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



*Non-contractual picture

Dimensions

Weight	22.1 kg (49 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	3/8 in (9.52mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	26
Horse Power	1-1/2
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)	2.03
Start Winding (Ohm)	7.6
Current RLA 50Hz (A)	7.6
Current MCC (A)	11.2
Current LRA (A)	42.2
Start Capacitor	88-101 µF / 330 V
Run Capacitor	17.5 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 6M3D
- Pick Up / Drop Out	/ 60-135 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

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3225	4560	6164	8098	10430	13232	16581	20558
	Power Input	(W)	708	814	909	994	1067	1130	1181	1221
	Amps	(A)	3.75	4.15	4.53	4.9	5.26	5.62	5.98	6.34
105	Refrig. Capacity	(Btu/h)	2472	3713	5173	6911	8995	11494	14489	18066
	Power Input	(W)	712	835	952	1062	1165	1260	1348	1428
	Amps	(A)	3.75	4.26	4.75	5.22	5.68	6.12	6.55	6.97
120	Refrig. Capacity	(Btu/h)			4141	5664	7477	9654	12273	15427
	Power Input	(W)			982	1113	1241	1365	1485	1601
	Amps	(A)			4.89	5.49	6.07	6.62	7.16	7.68
140	Refrig. Capacity	(Btu/h)				3961	5384	7097	9182	11738
	Power Input	(W)				1175	1329	1485	1642	1799
	Amps	(A)				5.68	6.47	7.23	7.95	8.65

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3417	4760	6375	8321	10665	13477	16835	20822
	Power Input	(W)	765	860	949	1032	1111	1186	1260	1334
	Amps	(A)	3.93	4.34	4.73	5.11	5.47	5.83	6.18	6.52
105	Refrig. Capacity	(Btu/h)	2635	3867	5320	7049	9118	11600	14572	18125
	Power Input	(W)	775	894	1006	1110	1209	1304	1396	1487
	Amps	(A)	4	4.5	4.98	5.45	5.9	6.33	6.76	7.18
120	Refrig. Capacity	(Btu/h)		2963	4232	5725	7501	9632	12198	15293
	Power Input	(W)		907	1045	1175	1299	1418	1532	1645
	Amps	(A)		4.57	5.17	5.75	6.31	6.85	7.38	7.91
140	Refrig. Capacity	(Btu/h)			2784	3929	5284	6917	8908	11363
	Power Input	(W)			1062	1234	1398	1555	1707	1855
	Amps	(A)			5.25	6.02	6.77	7.5	8.21	8.91



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2968	4280	5860	7771	10077	12848	16155	20075
	Power Input	(W)	674	760	842	921	998	1073	1146	1218
	Amps	(A)	3.47	3.83	4.2	4.56	4.92	5.27	5.62	5.96
105	Refrig. Capacity	(Btu/h)		3531	4981	6714	8795	11294	14283	17842
	Power Input	(W)		792	895	994	1090	1183	1274	1363
	Amps	(A)		3.98	4.43	4.88	5.32	5.75	6.17	6.58
120	Refrig. Capacity	(Btu/h)			4078	5620	7463	9676	12333	15517
	Power Input	(W)			931	1057	1178	1296	1411	1523
	Amps	(A)			4.61	5.17	5.72	6.27	6.8	7.32
140	Refrig. Capacity	(Btu/h)				4167	5672	7482	9674	12335
	Power Input	(W)				1111	1276	1436	1592	1745
	Amps	(A)				5.42	6.18	6.93	7.66	8.38

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2960	4271	5850	7761	10068	12841	16153	20081
	Power Input	(W)	674	760	842	921	998	1073	1146	1218
	Amps	(A)	3.47	3.83	4.2	4.56	4.92	5.27	5.62	5.96
105	Refrig. Capacity	(Btu/h)		3523	4971	6704	8786	11287	14281	17849
	Power Input	(W)		792	895	994	1090	1183	1274	1363
	Amps	(A)		3.98	4.43	4.88	5.32	5.75	6.17	6.58
120	Refrig. Capacity	(Btu/h)			4068	5610	7453	9668	12331	15523
	Power Input	(W)			931	1057	1178	1296	1411	1523
	Amps	(A)			4.61	5.17	5.72	6.27	6.8	7.32
140	Refrig. Capacity	(Btu/h)				4156	5662	7475	9672	12342
	Power Input	(W)				1111	1276	1436	1592	1745
	Amps	(A)				5.42	6.18	6.93	7.66	8.38

* 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

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Superheat : 32 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		3609	5052	6809	8938	11503	14572	18213
	Power Input	(W)		679	750	814	870	920	962	998
	Amps	(A)		3.5	3.8	4.07	4.32	4.54	4.73	4.88
105	Refrig. Capacity	(Btu/h)		2931	4251	5841	7763	10080	12859	16174
	Power Input	(W)		706	796	878	953	1019	1078	1129
	Amps	(A)		3.62	4	4.35	4.68	4.98	5.24	5.48
120	Refrig. Capacity	(Btu/h)			3432	4843	6543	8595	11068	14040
	Power Input	(W)			824	930	1027	1116	1197	1269
	Amps	(A)			4.12	4.58	5.01	5.41	5.78	6.12
140	Refrig. Capacity	(Btu/h)				3529	4910	6586	8629	11116
	Power Input	(W)				967	1104	1232	1350	1458
	Amps	(A)				4.74	5.35	5.93	6.47	6.98

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		3861	5446	7382	9736	12579	15986	20032
	Power Input	(W)		712	789	857	916	965	1003	1031
	Amps	(A)		3.66	3.99	4.28	4.54	4.76	4.94	5.07
105	Refrig. Capacity	(Btu/h)		3106	4535	6267	8367	10905	13958	17606
	Power Input	(W)		736	835	926	1008	1080	1143	1196
	Amps	(A)		3.77	4.19	4.59	4.95	5.27	5.54	5.77
120	Refrig. Capacity	(Btu/h)			3646	5166	7004	9230	11922	15161
	Power Input	(W)			866	981	1088	1186	1276	1356
	Amps	(A)			4.32	4.84	5.32	5.76	6.16	6.52
140	Refrig. Capacity	(Btu/h)				3781	5259	7057	9254	11937
	Power Input	(W)				1031	1175	1312	1440	1559
	Amps	(A)				4.98	5.67	6.32	6.93	7.49