



tecumseh

AJ4519P

220 - 240V 1~ 50 Hz

Compressor

AJ4519P-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	2454	8369	68 dBA
R-404A	50HZ	2476	8442	
R-448A	50HZ	2448	8349	
R-449A	50HZ	2444	8335	
R-454C	50HZ	2136	7285	
R-455A	50HZ	2252	7680	

(*) 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	22.2 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)	34.5
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)	1.28
Start Winding (Ohm)	5.93
Current RLA 50Hz (A)	10.4
Current MCC (A)	16.3
Current LRA (A)	48
Start Capacitor	100-115 µF / 250 V
Run Capacitor	25 µF / 400 V
Overload	T0770
- Time Check	2.8s - 5.2s / 48.5 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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Performances are given at rating conditions ARI 520-90
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)	4064	5806	7901	10427	13471	17123	21484	26658
	Power Input	(W)	925	1059	1184	1298	1402	1495	1575	1642
	Amps	(A)	5.07	5.62	6.15	6.64	7.12	7.56	7.99	8.39
105	Refrig. Capacity	(Btu/h)	3127	4733	6626	8883	11586	14828	18709	23341
	Power Input	(W)	944	1097	1246	1390	1529	1662	1788	1906
	Amps	(A)	5.07	5.77	6.45	7.1	7.73	8.33	8.91	9.47
120	Refrig. Capacity	(Btu/h)			5304	7257	9586	12382	15746	19797
	Power Input	(W)			1300	1469	1638	1806	1972	2136
	Amps	(A)			6.69	7.5	8.29	9.05	9.79	10.5
140	Refrig. Capacity	(Btu/h)				5056	6832	8977	11593	14807
	Power Input	(W)				1583	1784	1991	2203	2420
	Amps	(A)				7.93	8.93	9.91	10.9	11.8

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4295	6060	8172	10708	13752	17398	21746	26905
	Power Input	(W)	982	1119	1245	1360	1463	1554	1630	1692
	Amps	(A)	5.39	5.94	6.47	6.96	7.43	7.86	8.27	8.64
105	Refrig. Capacity	(Btu/h)	3306	4923	6819	9065	11747	14954	18791	23373
	Power Input	(W)	1008	1164	1314	1459	1597	1727	1849	1961
	Amps	(A)	5.41	6.12	6.8	7.45	8.07	8.66	9.22	9.75
120	Refrig. Capacity	(Btu/h)		3777	5423	7349	9635	12370	15659	19625
	Power Input	(W)		1208	1377	1545	1712	1877	2038	2195
	Amps	(A)		6.25	7.08	7.89	8.66	9.4	10.1	10.8
140	Refrig. Capacity	(Btu/h)			3594	5044	6753	8807	11312	14400
	Power Input	(W)			1481	1673	1870	2071	2277	2485
	Amps	(A)			7.37	8.38	9.36	10.3	11.2	12.1



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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)	3728	5448	7512	9999	12995	16587	20870	25940
	Power Input	(W)	865	987	1104	1214	1315	1405	1482	1544
	Amps	(A)	4.75	5.24	5.74	6.21	6.67	7.11	7.52	7.89
105	Refrig. Capacity	(Btu/h)		4495	6385	8636	11331	14561	18419	23008
	Power Input	(W)		1030	1169	1306	1440	1567	1688	1798
	Amps	(A)		5.42	6.05	6.67	7.28	7.86	8.41	8.94
120	Refrig. Capacity	(Btu/h)			5228	7217	9586	12426	15832	19910
	Power Input	(W)			1227	1389	1553	1716	1877	2033
	Amps	(A)			6.31	7.09	7.85	8.6	9.32	10
140	Refrig. Capacity	(Btu/h)				5348	7245	9525	12284	15636
	Power Input	(W)				1506	1706	1913	2124	2338
	Amps	(A)				7.55	8.54	9.52	10.5	11.4

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3718	5436	7499	9986	12983	16578	20867	25948
	Power Input	(W)	865	987	1104	1214	1315	1405	1482	1544
	Amps	(A)	4.75	5.24	5.74	6.21	6.67	7.11	7.52	7.89
105	Refrig. Capacity	(Btu/h)		4484	6372	8623	11319	14552	18416	23016
	Power Input	(W)		1030	1169	1306	1440	1567	1688	1798
	Amps	(A)		5.42	6.05	6.67	7.28	7.86	8.41	8.94
120	Refrig. Capacity	(Btu/h)			5215	7203	9574	12417	15829	19919
	Power Input	(W)			1227	1389	1553	1716	1877	2033
	Amps	(A)			6.31	7.09	7.85	8.6	9.32	10
140	Refrig. Capacity	(Btu/h)				5335	7233	9515	12282	15645
	Power Input	(W)				1506	1706	1913	2124	2338
	Amps	(A)				7.55	8.54	9.52	10.5	11.4

* 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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Evaporating : 20 °F
Superheat : 32 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		4781	6522	8659	11264	14418	18203	22707
	Power Input	(W)		869	970	1063	1150	1229	1302	1367
	Amps	(A)		4.92	5.33	5.74	6.13	6.51	6.88	7.24
105	Refrig. Capacity	(Btu/h)		3992	5582	7510	9851	12682	16090	20163
	Power Input	(W)		901	1024	1141	1253	1359	1460	1555
	Amps	(A)		5.07	5.56	6.04	6.52	6.98	7.44	7.89
120	Refrig. Capacity	(Btu/h)			4589	6301	8367	10868	13887	17519
	Power Input	(W)			1061	1202	1338	1471	1599	1724
	Amps	(A)			5.72	6.31	6.9	7.48	8.05	8.62
140	Refrig. Capacity	(Btu/h)				4643	6331	8374	10861	13888
	Power Input	(W)				1264	1433	1599	1764	1927
	Amps	(A)				6.54	7.31	8.09	8.86	9.64

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50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		4973	6834	9140	11977	15436	19612	24603
	Power Input	(W)		904	1004	1105	1202	1289	1361	1414
	Amps	(A)		5.14	5.58	6	6.38	6.73	7.04	7.29
105	Refrig. Capacity	(Btu/h)		4167	5848	7914	10449	13545	17298	21810
	Power Input	(W)		937	1051	1172	1295	1416	1530	1630
	Amps	(A)		5.27	5.83	6.37	6.88	7.38	7.83	8.25
120	Refrig. Capacity	(Btu/h)			4822	6629	8844	11557	14866	18878
	Power Input	(W)			1089	1224	1369	1519	1667	1810
	Amps	(A)			5.96	6.63	7.3	7.94	8.56	9.15
140	Refrig. Capacity	(Btu/h)				4912	6672	8844	11530	14840
	Power Input	(W)				1289	1454	1633	1820	2011
	Amps	(A)				6.92	7.79	8.66	9.51	10.3