



tecumseh

AJ2440P

220 - 240V 1~ 50 Hz

Compressor

AJ2440P-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	666	2272	56 dBA
R-404A	50HZ	705	2403	
R-448A	50HZ	649	2215	
R-449A	50HZ	649	2212	
R-454C	50HZ	618	2106	
R-455A	50HZ	661	2255	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap -10°F / T°Return gas temp. 40°F / T°Subcooling 0°F



*Non-contractual picture

Dimensions

Weight	21 kg (46 lb)
Length	246 mm (9.7 in)
Width	178 mm (7 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)	21
Horse Power	1
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)	2.8
Start Winding (Ohm)	11.6
Current RLA 50Hz (A)	3
Current MCC (A)	5.8
Current LRA (A)	27
Start Capacitor	88-101 µF / 250 V
Run Capacitor	15 µF / 400 V
Overload	MRA38111-3291
- Time Check	7.5s - 14s / 15.4 A
- Open Temp / Close Temp	105 °C / 52 °C
Potential Relay	RVA 4P3D
- Pick Up / Drop Out	300-328 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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Performances are given at rating conditions ARI 520-90
Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1158	1741	2479	3392	4504	5836
	Power Input	(W)	403	476	550	628	711	800
	Amps	(A)	1.79	2.09	2.42	2.78	3.16	3.57
105	Refrig. Capacity	(Btu/h)	879	1386	2027	2823	3796	4969
	Power Input	(W)	384	468	556	649	747	852
	Amps	(A)	1.71	2.08	2.47	2.89	3.33	3.79
120	Refrig. Capacity	(Btu/h)		1056	1596	2272	3103	4112
	Power Input	(W)		452	552	659	772	893
	Amps	(A)		2.03	2.48	2.95	3.45	3.96
140	Refrig. Capacity	(Btu/h)			1075	1585	2222	3006
	Power Input	(W)			537	661	793	935
	Amps	(A)			2.42	2.97	3.53	4.12

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50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	1296	1912	2681	3621	4748	6080
	Power Input	(W)	424	501	581	662	747	835
	Amps	(A)	1.92	2.25	2.6	2.97	3.36	3.77
105	Refrig. Capacity	(Btu/h)	996	1526	2188	2997	3970	5123
	Power Input	(W)	409	497	589	685	785	891
	Amps	(A)	1.87	2.26	2.66	3.09	3.54	4
120	Refrig. Capacity	(Btu/h)		1170	1724	2403	3223	4199
	Power Input	(W)		484	588	697	813	936
	Amps	(A)		2.22	2.68	3.17	3.67	4.2
140	Refrig. Capacity	(Btu/h)			1154	1661	2277	3016
	Power Input	(W)			577	705	840	986
	Amps	(A)			2.64	3.21	3.79	4.39



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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	974	1541	2276	3203	4345	5724
	Power Input	(W)	362	434	508	585	664	749
	Amps	(A)	1.64	1.95	2.28	2.62	2.99	3.38
105	Refrig. Capacity	(Btu/h)		1237	1876	2687	3694	4919
	Power Input	(W)		432	518	606	699	798
	Amps	(A)		1.96	2.34	2.74	3.16	3.59
120	Refrig. Capacity	(Btu/h)		964	1512	2215	3094	4171
	Power Input	(W)		420	518	620	727	841
	Amps	(A)		1.93	2.37	2.82	3.29	3.77
140	Refrig. Capacity	(Btu/h)			1105	1672	2389	3278
	Power Input	(W)			506	627	755	889
	Amps	(A)			2.32	2.86	3.4	3.96

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50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	973	1539	2274	3200	4340	5718
	Power Input	(W)	362	434	508	585	664	749
	Amps	(A)	1.64	1.95	2.28	2.62	2.99	3.38
105	Refrig. Capacity	(Btu/h)	747	1235	1873	2684	3690	4913
	Power Input	(W)	349	432	518	606	699	798
	Amps	(A)	1.59	1.96	2.34	2.74	3.16	3.59
120	Refrig. Capacity	(Btu/h)		962	1510	2212	3089	4164
	Power Input	(W)		420	518	620	727	841
	Amps	(A)		1.93	2.37	2.82	3.29	3.77
140	Refrig. Capacity	(Btu/h)			1103	1669	2384	3271
	Power Input	(W)			506	627	755	889
	Amps	(A)			2.32	2.86	3.4	3.96

* 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. : 40 °F
Subcooling : 0 °F

50HZ R-454C

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1024	1544	2197	3001	3976	5140
	Power Input (W)	327	393	461	529	595	659
	Amps (A)	1.54	1.83	2.13	2.44	2.75	3.06
105	Refrig. Capacity (Btu/h)	782	1255	1844	2567	3444	4493
	Power Input (W)	311	385	463	543	625	707
	Amps (A)	1.48	1.8	2.14	2.5	2.88	3.26
120	Refrig. Capacity (Btu/h)		952	1470	2106	2878	3804
	Power Input (W)		366	452	544	640	738
	Amps (A)		1.72	2.11	2.52	2.96	3.42
140	Refrig. Capacity (Btu/h)			965	1473	2094	2847
	Power Input (W)			420	524	636	754
	Amps (A)			1.95	2.44	2.96	3.52

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50HZ R-455A

Condensing	Evaporating (°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity (Btu/h)	1087	1652	2359	3228	4280	5537
	Power Input (W)	344	411	481	553	625	696
	Amps (A)	1.59	1.91	2.24	2.57	2.9	3.23
105	Refrig. Capacity (Btu/h)	826	1336	1969	2745	3686	4812
	Power Input (W)	326	402	483	568	656	745
	Amps (A)	1.52	1.88	2.25	2.64	3.04	3.46
120	Refrig. Capacity (Btu/h)		1020	1575	2255	3081	4072
	Power Input (W)		384	476	573	676	781
	Amps (A)		1.79	2.22	2.67	3.14	3.64
140	Refrig. Capacity (Btu/h)			1063	1610	2276	3081
	Power Input (W)			449	561	681	808
	Amps (A)			2.06	2.6	3.17	3.79