



tecumseh

AJ4461N

220 - 240V 1~ 50 Hz

Compressor

AJ4461N-FZ1A

HBP

R-134a / R-1234yf / R-513A

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-1234yf	50HZ	736	2510	54 dBA
R-134a	50HZ	783	2668	
R-513A	50HZ	774	2638	

(*) 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	18.8 kg (41 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	268 mm (10.6 in)
Ø Suction Tube	1/2 in (12.7mm)
Ø Discharge Tube	1/4 in (6.35mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	18.3
Horse Power	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	CSIR
Main Winding (Ohm)	3.9
Start Winding (Ohm)	20.6
Current RLA 50Hz (A)	4
Current MCC (A)	5.6
Current LRA (A)	19.4
Start Capacitor	64-74 µF / 330 V
Overload	MST24ALK
- Time Check	2.8s - 5.2s / 20.6 A
- Open Temp / Close Temp	105 °C / 61 °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)	11.5
Ambient Temp. Range (°C)	-35/+150
Leak Test pressure (bar)	12.7
Free Volume (l)	4.7

Note : Tecumseh reserves the right to change information contained in this document without notification.



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AJ4461N

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-1234yf

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		1608	2250	3059	4067	5312	6829	8661
	Power Input	(W)		368	414	456	493	526	553	573
	Amps	(A)		2.82	2.97	3.12	3.26	3.4	3.51	3.6
105	Refrig. Capacity	(Btu/h)		1309	1881	2595	3485	4585	5935	7575
	Power Input	(W)		374	430	484	534	580	620	655
	Amps	(A)		2.85	3.03	3.22	3.41	3.59	3.75	3.89
120	Refrig. Capacity	(Btu/h)			1520	2144	2919	3879	5065	6518
	Power Input	(W)			439	505	567	627	682	732
	Amps	(A)			3.06	3.3	3.54	3.78	4.01	4.21
140	Refrig. Capacity	(Btu/h)				1564	2192	2972	3945	5154
	Power Input	(W)				521	601	680	755	826
	Amps	(A)				3.33	3.67	4.01	4.34	4.65

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50HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		1604	2258	3101	4169	5503	7144	9136
	Power Input	(W)		346	392	435	474	509	540	567
	Amps	(A)		2.91	3.03	3.15	3.27	3.39	3.5	3.62
105	Refrig. Capacity	(Btu/h)		1367	1948	2691	3635	4819	6284	8075
	Power Input	(W)		355	411	465	515	562	606	646
	Amps	(A)		2.89	3.06	3.23	3.4	3.57	3.74	3.91
120	Refrig. Capacity	(Btu/h)			1638	2283	3102	4134	5422	7011
	Power Input	(W)			423	488	551	611	668	722
	Amps	(A)			3.08	3.3	3.52	3.74	3.97	4.18
140	Refrig. Capacity	(Btu/h)				1755	2406	3236	4285	5601
	Power Input	(W)				507	588	667	744	817
	Amps	(A)				3.38	3.67	3.96	4.25	4.54

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-513A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	1133	1640	2306	3177	4302	5734	7531	9751
	Power Input (W)	326	378	425	469	510	546	579	608
	Amps (A)	2.79	2.91	3.03	3.15	3.27	3.39	3.5	3.62
105	Refrig. Capacity (Btu/h)	911	1362	1944	2704	3689	4953	6553	8552
	Power Input (W)	319	382	442	498	550	600	646	689
	Amps (A)	2.71	2.89	3.06	3.23	3.4	3.57	3.74	3.91
120	Refrig. Capacity (Btu/h)		1090	1591	2242	3090	4188	5594	7372
	Power Input (W)		377	449	519	585	649	710	768
	Amps (A)		2.85	3.08	3.3	3.52	3.74	3.97	4.18
140	Refrig. Capacity (Btu/h)			1141	1651	2319	3198	4348	5834
	Power Input (W)			445	535	622	707	790	871
	Amps (A)			3.09	3.38	3.67	3.96	4.25	4.54

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