



tecumseh

AJ4461N

400V 3~ 50Hz / 440V 3~ 60 Hz

Compressor

AJ4461N-TZ1A

HBP

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

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-1234yf	50HZ	758	2586	56 dBA
R-134a	50HZ	820	2795	
R-513A	50HZ / 60HZ	810 / 996	2763 / 3395	

(*) 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	19.2 kg (42 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	268 mm (10.6 in)
Ø Suction Tube	3/8 in (9.52mm)
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	3PH
Main Winding (Ohm)	21
Current RLA 50Hz (A)	1.4
Current RLA 60Hz (A)	1.4
Current MCC (A)	2.8
Current LRA (A)	9.8
Overload	Internal

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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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)		1594	2260	3092	4119	5375	6895	8717
	Power Input	(W)		343	385	424	460	493	520	543
	Amps	(A)		1.06	1.1	1.13	1.17	1.2	1.23	1.26
105	Refrig. Capacity	(Btu/h)		1296	1899	2643	3557	4676	6033	7668
	Power Input	(W)		346	399	449	494	534	569	597
	Amps	(A)		1.06	1.11	1.16	1.21	1.25	1.29	1.33
120	Refrig. Capacity	(Btu/h)			1539	2202	3011	3999	5201	6657
	Power Input	(W)			403	466	523	574	619	656
	Amps	(A)			1.11	1.17	1.23	1.29	1.35	1.4
140	Refrig. Capacity	(Btu/h)				1616	2294	3119	4126	5356
	Power Input	(W)				466	544	614	677	732
	Amps	(A)				1.18	1.26	1.33	1.4	1.47

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50HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		1707	2379	3235	4317	5667	7330	9352
	Power Input	(W)		319	361	399	436	471	506	540
	Amps	(A)		1.08	1.1	1.13	1.15	1.18	1.2	1.23
105	Refrig. Capacity	(Btu/h)		1444	2050	2817	3783	4992	6488	8319
	Power Input	(W)		327	378	426	471	515	558	600
	Amps	(A)		1.06	1.1	1.14	1.18	1.22	1.26	1.3
120	Refrig. Capacity	(Btu/h)			1716	2393	3245	4313	5642	7283
	Power Input	(W)			388	447	502	556	607	658
	Amps	(A)			1.1	1.15	1.21	1.26	1.32	1.37
140	Refrig. Capacity	(Btu/h)				1831	2530	3411	4519	5905
	Power Input	(W)				463	534	602	668	733
	Amps	(A)				1.17	1.24	1.32	1.39	1.47



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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)	1215	1745	2429	3314	4455	5906	7727	9982
	Power Input (W)	302	349	392	431	469	506	542	579
	Amps (A)	1.05	1.08	1.1	1.13	1.15	1.18	1.2	1.23
105	Refrig. Capacity (Btu/h)	958	1439	2047	2830	3839	5131	6767	8811
	Power Input (W)	295	353	406	456	504	549	595	640
	Amps (A)	1.02	1.06	1.1	1.14	1.18	1.22	1.26	1.3
120	Refrig. Capacity (Btu/h)		1130	1666	2350	3232	4369	5822	7659
	Power Input (W)		347	413	475	534	590	646	701
	Amps (A)		1.04	1.1	1.15	1.21	1.26	1.32	1.37
140	Refrig. Capacity (Btu/h)			1166	1723	2441	3376	4591	6156
	Power Input (W)			407	487	564	638	710	780
	Amps (A)			1.09	1.17	1.24	1.32	1.39	1.47

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60HZ R-513A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	1535	2268	3140	4189	5453	6968	8773	10906
	Power Input (W)	349	419	477	528	577	627	684	752
	Amps (A)	0.97	1.01	1.05	1.09	1.14	1.18	1.24	1.29
105	Refrig. Capacity (Btu/h)	1094	1784	2591	3551	4701	6080	7725	9674
	Power Input (W)	312	407	487	556	618	679	741	810
	Amps (A)	0.94	1	1.05	1.12	1.18	1.25	1.32	1.39
120	Refrig. Capacity (Btu/h)		1292	2031	2900	3936	5177	6660	8422
	Power Input (W)		367	476	568	651	727	801	878
	Amps (A)		0.97	1.05	1.13	1.21	1.29	1.38	1.47
140	Refrig. Capacity (Btu/h)			1290	2034	2915	3968	5232	6744
	Power Input (W)			413	548	666	773	873	970
	Amps (A)			1.01	1.11	1.22	1.33	1.44	1.55