



tecumseh

AG4528N

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

Compressor

AG4528N-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	2772	9453	75.7 dBA
R-134a	50HZ / 60HZ	2942 / 3473	10032 / 11842	
R-513A	50HZ	2817	9605	

(*) 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	43 kg (95 lb)
Length	361 mm (14.2 in)
Width	238 mm (9.4 in)
Height	397 mm (15.6 in)
Ø Suction Tube	7/8 in (22.2mm)
Ø Discharge Tube	5/8 in (15.9mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	90.2
Horse Power	2-1/2
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)	1760

Electrical

Motor Type	3PH
Main Winding (Ohm)	4.6
Current RLA 50Hz (A)	4.4
Current RLA 60Hz (A)	4.5
Current MCC (A)	11.1
Current LRA (A)	42.5
Overload	Internal
- Time Check	3s - 10s / 25 A
- Open Temp / Close Temp	105 °C / 69 °C

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)	11.6

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)		5884	8950	12891	17878	24096	31741	41024
	Power Input	(W)		1207	1419	1628	1823	1995	2133	2227
	Amps	(A)		3.26	3.45	3.65	3.84	4.02	4.21	4.38
105	Refrig. Capacity	(Btu/h)		4209	6845	10234	14546	19963	26686	34930
	Power Input	(W)		1157	1396	1640	1879	2104	2303	2468
	Amps	(A)		3.18	3.43	3.68	3.91	4.15	4.38	4.61
120	Refrig. Capacity	(Btu/h)			4892	7741	11386	16011	21817	29028
	Power Input	(W)			1332	1605	1881	2151	2404	2632
	Amps	(A)			3.35	3.64	3.93	4.22	4.49	4.77
140	Refrig. Capacity	(Btu/h)				4773	7548	11130	15722	21557
	Power Input	(W)				1484	1798	2117	2432	2732
	Amps	(A)				3.51	3.86	4.21	4.56	4.9

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50HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2313	4188	7202	11362	16672	23137	30759	39543
	Power Input	(W)	96.9	591	1010	1351	1616	1805	1917	1953
	Amps	(A)	494	310	169	72.5	19.9	11.3	46.8	126
105	Refrig. Capacity	(Btu/h)	1973	3493	6074	9722	14442	20240	27118	35081
	Power Input	(W)	-41.6	503	972	1364	1680	1919	2082	2169
	Amps	(A)	622	390	213	91.6	25.5	14.7	59.4	159
120	Refrig. Capacity	(Btu/h)		2804	4953	8091	12222	17352	23487	30628
	Power Input	(W)		416	935	1378	1744	2034	2247	2384
	Amps	(A)		471	258	111	31.2	18.3	72.2	193
140	Refrig. Capacity	(Btu/h)			3476	5936	9283	13524	18664	24709
	Power Input	(W)			885	1395	1829	2186	2467	2672
	Amps	(A)			317	137	39	23.1	89.3	237



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

60HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2352	4745	8426	13400	19674	27251	36137	46334
	Power Input	(W)	-59.6	581	1127	1577	1932	2192	2357	2426
	Amps	(A)	658	411	224	94.7	24.6	13.2	60.5	167
105	Refrig. Capacity	(Btu/h)	2003	3953	7105	11467	17042	23838	31859	41107
	Power Input	(W)	-237	467	1076	1590	2008	2331	2559	2692
	Amps	(A)	829	518	282	120	31.6	17.3	76.9	210
120	Refrig. Capacity	(Btu/h)		3167	5794	9544	14423	20437	27592	35892
	Power Input	(W)		353	1025	1602	2084	2470	2762	2958
	Amps	(A)		626	341	145	38.9	21.6	93.5	255
140	Refrig. Capacity	(Btu/h)			4065	7003	10955	15927	21926	28958
	Power Input	(W)			958	1619	2185	2656	3032	3312
	Amps	(A)			419	179	48.7	27.5	116	313

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50HZ R-513A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		5721	8879	12970	18181	24712	32775	42593
	Power Input	(W)		1185	1387	1598	1803	1988	2137	2234
	Amps	(A)		3.2	3.38	3.58	3.8	4.01	4.21	4.39
105	Refrig. Capacity	(Btu/h)		4056	6784	10324	14862	20597	27745	36537
	Power Input	(W)		1165	1389	1636	1889	2133	2355	2539
	Amps	(A)		3.2	3.42	3.67	3.93	4.21	4.48	4.74
120	Refrig. Capacity	(Btu/h)			4811	7797	11656	16587	22809	30561
	Power Input	(W)			1337	1607	1897	2191	2476	2734
	Amps	(A)			3.36	3.65	3.96	4.3	4.63	4.96
140	Refrig. Capacity	(Btu/h)				4755	7702	11549	16518	22859
	Power Input	(W)				1465	1787	2131	2482	2824
	Amps	(A)				3.46	3.84	4.24	4.65	5.06