



tecumseh

TAG2513Z

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

Compressor

AG2513Z-TZ1D

LBP

R-452A / R-404A

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	1413 / 1759	4817 / 5998	
R-404A	50HZ / 60HZ	1534 / 1910	5230 / 6513	
R-448A	50HZ / 60HZ	1195 / 1488	4074 / 5074	
R-449A	50HZ / 60HZ	1195 / 1488	4074 / 5074	

(*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	43.8 kg (97 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)	100.7
Horse Power	3
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)	1760

Electrical

Motor Type	3PH
Main Winding (Ohm)	4.6
Current RLA 50Hz (A)	4.2
Current RLA 60Hz (A)	4.3
Current MCC (A)	8.5
Current LRA (A)	42.5
Overload	Internal
- Time Check	2s - 10s / 33 A
- Open Temp / Close Temp	105 °C / 61 °C

Pressure Equipment Directive

Max. Ambient Temp. (°C)	+46
Max. Allowable Press. (bar)	21
Ambient Temp. Range (°C)	-35/+150
Leak Test pressure (bar)	23.1
Free Volume (l)	11.6

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



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Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1302	2035	2963	4114	5517	7201	9194
	Power Input (W)	1295	1635	1980	2334	2697	3071	3459
	Amps (A)	3.14	3.45	3.82	4.22	4.68	5.18	5.74
40	Refrig. Capacity (Watt)	789	1413	2198	3173	4367	5809	7528
	Power Input (W)	1113	1505	1908	2324	2753	3199	3662
	Amps (A)	2.87	3.28	3.72	4.21	4.75	5.32	5.95
50	Refrig. Capacity (Watt)			1471	2263	3242	4435	5871
	Power Input (W)			1746	2221	2715	3229	3765
	Amps (A)			3.53	4.1	4.71	5.36	6.06
60	Refrig. Capacity (Watt)				1435	2190	3126	4273
	Power Input (W)				2016	2570	3150	3757
	Amps (A)				3.88	4.57	5.29	6.05

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50HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1428	2212	3194	4399	5848	7565	9573
	Power Input (W)	1387	1755	2125	2498	2876	3257	3643
	Amps (A)	3.36	3.71	4.09	4.52	4.99	5.5	6.04
40	Refrig. Capacity (Watt)	872	1534	2358	3367	4585	6035	7740
	Power Input (W)	1213	1631	2057	2492	2937	3392	3858
	Amps (A)	3.13	3.55	4.02	4.52	5.06	5.65	6.27
50	Refrig. Capacity (Watt)		912	1578	2393	3381	4565	5967
	Power Input (W)		1414	1896	2393	2905	3433	3978
	Amps (A)		3.29	3.84	4.42	5.04	5.7	6.4
60	Refrig. Capacity (Watt)			882	1504	2262	3181	4282
	Power Input (W)			1628	2186	2765	3366	3990
	Amps (A)			3.56	4.21	4.91	5.65	6.43



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Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1041	1724	2616	3745	5141	6831	8844
	Power Input (W)	1182	1516	1853	2198	2550	2912	3285
	Amps (A)	2.87	3.2	3.57	3.98	4.42	4.91	5.45
40	Refrig. Capacity (Watt)		1195	1939	2891	4078	5530	7274
	Power Input (W)		1415	1803	2201	2609	3030	3465
	Amps (A)		3.08	3.52	3.99	4.5	5.04	5.63
50	Refrig. Capacity (Watt)			1319	2102	3090	4312	5796
	Power Input (W)			1667	2123	2593	3077	3579
	Amps (A)			3.37	3.92	4.5	5.11	5.76
60	Refrig. Capacity (Watt)				1413	2210	3211	4444
	Power Input (W)				1939	2475	3030	3603
	Amps (A)				3.74	4.4	5.08	5.8

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50HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1041	1724	2616	3745	5141	6831	8844
	Power Input (W)	1182	1516	1853	2198	2550	2912	3285
	Amps (A)	2.87	3.2	3.57	3.98	4.42	4.91	5.45
40	Refrig. Capacity (Watt)		1195	1939	2891	4078	5530	7274
	Power Input (W)		1415	1803	2201	2609	3030	3465
	Amps (A)		3.08	3.52	3.99	4.5	5.04	5.63
50	Refrig. Capacity (Watt)			1319	2102	3090	4312	5796
	Power Input (W)			1667	2123	2593	3077	3579
	Amps (A)			3.37	3.92	4.5	5.11	5.76
60	Refrig. Capacity (Watt)				1413	2210	3211	4444
	Power Input (W)				1939	2475	3030	3603
	Amps (A)				3.74	4.4	5.08	5.8

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

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Return gas temp. : 20 °C
Subcooling : 0 K

60HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1650	2548	3639	4951	6509	8342	10475
	Power Input (W)	1603	2021	2423	2827	3250	3711	4229
	Amps (A)	3.01	3.41	3.85	4.33	4.86	5.44	6.06
40	Refrig. Capacity (Watt)	951	1759	2732	3898	5283	6913	8817
	Power Input (W)	1304	1839	2350	2853	3368	3913	4505
	Amps (A)	2.64	3.17	3.74	4.35	5.01	5.71	6.46
50	Refrig. Capacity (Watt)			1810	2809	3999	5407	7060
	Power Input (W)			2115	2732	3352	3994	4674
	Amps (A)			3.46	4.2	4.98	5.8	6.66
60	Refrig. Capacity (Watt)				1757	2732	3896	5277
	Power Input (W)				2437	3176	3928	4711
	Amps (A)				3.87	4.77	5.7	6.68

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60HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1810	2769	3923	5292	6899	8763	10907
	Power Input (W)	1717	2170	2600	3026	3465	3935	4455
	Amps (A)	3.22	3.66	4.13	4.64	5.18	5.77	6.39
40	Refrig. Capacity (Watt)	1050	1910	2932	4137	5547	7182	9065
	Power Input (W)	1421	1993	2533	3061	3594	4149	4746
	Amps (A)	2.87	3.43	4.03	4.67	5.35	6.06	6.8
50	Refrig. Capacity (Watt)		1063	1941	2970	4171	5566	7175
	Power Input (W)		1626	2295	2943	3587	4247	4939
	Amps (A)		3.03	3.76	4.52	5.33	6.16	7.04
60	Refrig. Capacity (Watt)			1002	1842	2822	3964	5288
	Power Input (W)			1856	2642	3416	4198	5004
	Amps (A)			3.3	4.2	5.13	6.09	7.1



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60HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1321	2159	3213	4506	6064	7912	10074
	Power Input (W)	1464	1875	2268	2662	3073	3519	4017
	Amps (A)	2.75	3.16	3.6	4.08	4.6	5.16	5.76
40	Refrig. Capacity (Watt)		1488	2411	3551	4933	6580	8519
	Power Input (W)		1729	2221	2703	3192	3706	4262
	Amps (A)		2.98	3.54	4.13	4.75	5.41	6.11
50	Refrig. Capacity (Watt)			1622	2608	3811	5258	6972
	Power Input (W)			2018	2611	3202	3807	4444
	Amps (A)			3.3	4.01	4.75	5.53	6.33
60	Refrig. Capacity (Watt)				1732	2756	4000	5488
	Power Input (W)				2344	3058	3778	4519
	Amps (A)				3.72	4.59	5.48	6.41

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60HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1321	2159	3213	4506	6064	7912	10074
	Power Input (W)	1464	1875	2268	2662	3073	3519	4017
	Amps (A)	2.75	3.16	3.6	4.08	4.6	5.16	5.76
40	Refrig. Capacity (Watt)		1488	2411	3551	4933	6580	8519
	Power Input (W)		1729	2221	2703	3192	3706	4262
	Amps (A)		2.98	3.54	4.13	4.75	5.41	6.11
50	Refrig. Capacity (Watt)			1622	2608	3811	5258	6972
	Power Input (W)			2018	2611	3202	3807	4444
	Amps (A)			3.3	4.01	4.75	5.53	6.33
60	Refrig. Capacity (Watt)				1732	2756	4000	5488
	Power Input (W)				2344	3058	3778	4519
	Amps (A)				3.72	4.59	5.48	6.41

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