



tecumseh

TAG4546Z

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

Compressor

AGB4546ZTZ

HBP

R-404A / R-448A / R-449A / R-452A / R-22 / R-407C

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	9903 / 11915	33768 / 40629	78 dBA
R-404A	50HZ / 60HZ	9878 / 11886	33683 / 40530	
R-448A	50HZ / 60HZ	9913 / 11926	33803 / 40668	
R-449A	50HZ / 60HZ	9913 / 11926	33803 / 40668	
R-407C	50HZ / 60HZ	9490 / 11418	32361 / 38934	
R-22	50HZ / 60HZ	10251 / 12336	34955 / 42065	

(*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	43.1 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	4 hp
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 cSt@40°C
Oil Charge (cc)	1760

Electrical

Motor Type	3PH
Main Winding (Ohm)	4.59
Current RLA 50Hz (A)	7
Current RLA 60Hz (A)	7.2
Current LRA (A)	42.5
Overload	Internal

Pressure Equipment Directive

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

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)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	3091	4342	5864	7692	9862	12408	15365	18769	22655
	Power Input	(W)	1759	2081	2378	2653	2913	3160	3400	3638	3878
	Amps	(A)	3.75	4.16	4.56	4.95	5.32	5.68	6.02	6.36	6.68
40	Refrig. Capacity	(Watt)		3223	4534	6096	7944	10113	12637	15554	18896
	Power Input	(W)		2046	2426	2778	3107	3416	3712	3998	4279
	Amps	(A)		4.1	4.61	5.1	5.58	6.04	6.5	6.94	7.37
50	Refrig. Capacity	(Watt)			3247	4530	6044	7823	9903	12318	15105
	Power Input	(W)			2356	2804	3221	3613	3983	4337	4678
	Amps	(A)			4.51	5.11	5.69	6.27	6.83	7.38	7.92
60	Refrig. Capacity	(Watt)				3049	4216	5592	7214	9117	11335
	Power Input	(W)				2688	3214	3706	4170	4611	5032
	Amps	(A)				4.96	5.66	6.34	7.01	7.67	8.33

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50HZ R-404A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	3296	4578	6126	7972	10149	12690	15628	18995	22823
	Power Input	(W)	1863	2196	2500	2781	3042	3289	3525	3757	3988
	Amps	(A)	3.97	4.39	4.8	5.18	5.55	5.91	6.24	6.56	6.87
40	Refrig. Capacity	(Watt)	2273	3394	4721	6287	8125	10267	12746	15595	18846
	Power Input	(W)	1742	2168	2558	2916	3247	3555	3846	4124	4394
	Amps	(A)	3.82	4.35	4.86	5.35	5.83	6.29	6.73	7.16	7.57
50	Refrig. Capacity	(Watt)		2273	3370	4646	6134	7867	9878	12198	14861
	Power Input	(W)		2003	2497	2951	3371	3761	4125	4469	4797
	Amps	(A)		4.16	4.78	5.37	5.96	6.52	7.07	7.6	8.12
60	Refrig. Capacity	(Watt)			2133	3109	4238	5552	7084	8866	10931
	Power Input	(W)			2275	2846	3374	3864	4321	4749	5154
	Amps	(A)			4.54	5.25	5.94	6.61	7.27	7.9	8.53



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

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Conditions DEW

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

50HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2723	3922	5394	7177	9313	11839	14796	18224	22161
	Power Input (W)	1640	1937	2215	2478	2728	2968	3199	3425	3649
	Amps (A)	3.5	3.87	4.25	4.62	4.98	5.33	5.67	5.99	6.28
40	Refrig. Capacity (Watt)		2927	4203	5743	7586	9773	12343	15334	18788
	Power Input (W)		1921	2276	2609	2922	3219	3501	3771	4032
	Amps (A)		3.85	4.32	4.79	5.25	5.69	6.13	6.55	6.94
50	Refrig. Capacity (Watt)			3056	4347	5894	7736	9913	12464	15429
	Power Input (W)			2226	2654	3056	3435	3793	4133	4457
	Amps (A)			4.26	4.83	5.4	5.96	6.5	7.03	7.54
60	Refrig. Capacity (Watt)				3054	4299	5791	7571	9676	12147
	Power Input (W)				2554	3071	3557	4016	4451	4863
	Amps (A)				4.71	5.4	6.08	6.75	7.41	8.05

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2723	3922	5394	7177	9313	11839	14796	18224	22161
	Power Input (W)	1640	1937	2215	2478	2728	2968	3199	3425	3649
	Amps (A)	3.5	3.87	4.25	4.62	4.98	5.33	5.67	5.99	6.28
40	Refrig. Capacity (Watt)		2927	4203	5743	7586	9773	12343	15334	18788
	Power Input (W)		1921	2276	2609	2922	3219	3501	3771	4032
	Amps (A)		3.85	4.32	4.79	5.25	5.69	6.13	6.55	6.94
50	Refrig. Capacity (Watt)			3056	4347	5894	7736	9913	12464	15429
	Power Input (W)			2226	2654	3056	3435	3793	4133	4457
	Amps (A)			4.26	4.83	5.4	5.96	6.5	7.03	7.54
60	Refrig. Capacity (Watt)				3054	4299	5791	7571	9676	12147
	Power Input (W)				2554	3071	3557	4016	4451	4863
	Amps (A)				4.71	5.4	6.08	6.75	7.41	8.05

* 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. : 20 °C
Subcooling : 0 K

50HZ R-407C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2402	3538	4940	6649	8704	11148	14019	17361	21212
	Power Input (W)	1465	1769	2047	2303	2540	2762	2973	3176	3376
	Amps (A)	3.12	3.54	3.93	4.3	4.64	4.96	5.26	5.55	5.82
40	Refrig. Capacity (Watt)		2610	3833	5318	7106	9238	11754	14695	18102
	Power Input (W)		1713	2078	2415	2727	3020	3296	3559	3813
	Amps (A)		3.44	3.95	4.43	4.9	5.34	5.77	6.18	6.57
50	Refrig. Capacity (Watt)		1708	2747	4004	5519	7334	9490	12026	14985
	Power Input (W)		1512	1983	2420	2828	3210	3570	3913	4241
	Amps (A)		3.16	3.79	4.41	5	5.57	6.12	6.66	7.18
60	Refrig. Capacity (Watt)			1760	2784	4022	5515	7305	9432	11936
	Power Input (W)			1721	2278	2801	3292	3757	4198	4619
	Amps (A)			3.46	4.2	4.93	5.63	6.32	6.99	7.64

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50HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	3235	4478	5972	7751	9846	12291	15119	18361
	Power Input (W)	2032	2377	2694	2988	3264	3527	3782	4035
	Amps (A)	4.08	4.52	4.95	5.36	5.77	6.17	6.57	6.95
50	Refrig. Capacity (Watt)	2398	3463	4749	6287	8110	10251	12743	15618
	Power Input (W)	1940	2380	2786	3163	3518	3853	4176	4489
	Amps (A)	4.02	4.55	5.07	5.59	6.1	6.61	7.11	7.6
60	Refrig. Capacity (Watt)		2532	3605	4899	6446	8279	10432	12937
	Power Input (W)		2261	2773	3251	3700	4125	4531	4923
	Amps (A)		4.5	5.11	5.72	6.33	6.94	7.54	8.14



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Conditions DEW

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

60HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3810	5414	7292	9484	12026	14957	18315	22137	26462
	Power Input (W)	2173	2617	3036	3427	3792	4130	4440	4722	4976
	Amps (A)	4.13	4.58	5.02	5.44	5.85	6.25	6.63	6.99	7.35
40	Refrig. Capacity (Watt)		3948	5632	7556	9757	12274	15143	18404	22093
	Power Input (W)		2494	3010	3501	3967	4406	4819	5206	5565
	Amps (A)		4.51	5.07	5.61	6.14	6.65	7.15	7.63	8.11
50	Refrig. Capacity (Watt)			3915	5571	7432	9533	11915	14614	17668
	Power Input (W)			2845	3441	4013	4560	5081	5578	6048
	Amps (A)			4.96	5.62	6.26	6.89	7.51	8.12	8.71
60	Refrig. Capacity (Watt)				3571	5090	6778	8671	10808	13227
	Power Input (W)				3236	3919	4579	5215	5827	6414
	Amps (A)				5.46	6.22	6.97	7.71	8.44	9.16

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60HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	4063	5707	7617	9828	12377	15298	18628	22403	26659
	Power Input (W)	2302	2762	3192	3592	3960	4298	4603	4876	5116
	Amps (A)	4.37	4.83	5.28	5.7	6.11	6.5	6.87	7.22	7.55
40	Refrig. Capacity (Watt)	2641	4159	5864	7793	9980	12461	15274	18453	22034
	Power Input (W)	2084	2643	3174	3675	4146	4585	4994	5370	5715
	Amps (A)	4.21	4.79	5.35	5.89	6.41	6.92	7.41	7.87	8.32
50	Refrig. Capacity (Watt)		2560	4064	5713	7542	9588	11886	14472	17382
	Power Input (W)		2379	3015	3622	4199	4746	5263	5748	6201
	Amps (A)		4.57	5.25	5.91	6.55	7.18	7.78	8.37	8.93
60	Refrig. Capacity (Watt)			2268	3641	5115	6728	8515	10512	12754
	Power Input (W)			2707	3425	4114	4774	5403	6001	6569
	Amps (A)			5	5.77	6.53	7.27	7.99	8.69	9.38



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Conditions DEW

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

60HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3357	4890	6707	8849	11357	14273	17638	21494	25882
	Power Input (W)	2026	2435	2828	3201	3553	3879	4178	4446	4681
	Amps (A)	3.85	4.26	4.68	5.08	5.48	5.87	6.24	6.58	6.91
40	Refrig. Capacity (Watt)		3583	5221	7120	9320	11863	14791	18144	21965
	Power Input (W)		2342	2824	3288	3731	4152	4546	4911	5245
	Amps (A)		4.24	4.76	5.27	5.77	6.26	6.74	7.2	7.64
50	Refrig. Capacity (Watt)			3682	5347	7248	9427	11926	14785	18047
	Power Input (W)			2688	3257	3807	4335	4839	5315	5762
	Amps (A)			4.68	5.32	5.94	6.55	7.15	7.74	8.3
60	Refrig. Capacity (Watt)				3581	5192	7016	9095	11469	14181
	Power Input (W)				3074	3744	4395	5022	5624	6198
	Amps (A)				5.18	5.94	6.69	7.43	8.15	8.85

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60HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3357	4890	6707	8849	11357	14273	17638	21494	25882
	Power Input (W)	2026	2435	2828	3201	3553	3879	4178	4446	4681
	Amps (A)	3.85	4.26	4.68	5.08	5.48	5.87	6.24	6.58	6.91
40	Refrig. Capacity (Watt)		3583	5221	7120	9320	11863	14791	18144	21965
	Power Input (W)		2342	2824	3288	3731	4152	4546	4911	5245
	Amps (A)		4.24	4.76	5.27	5.77	6.26	6.74	7.2	7.64
50	Refrig. Capacity (Watt)			3682	5347	7248	9427	11926	14785	18047
	Power Input (W)			2688	3257	3807	4335	4839	5315	5762
	Amps (A)			4.68	5.32	5.94	6.55	7.15	7.74	8.3
60	Refrig. Capacity (Watt)				3581	5192	7016	9095	11469	14181
	Power Input (W)				3074	3744	4395	5022	5624	6198
	Amps (A)				5.18	5.94	6.69	7.43	8.15	8.85

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Conditions DEW

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

60HZ R-407C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2966	4412	6141	8193	10612	13438	16713	20479	24776
	Power Input (W)	1810	2225	2614	2975	3307	3610	3882	4123	4331
	Amps (A)	3.44	3.89	4.32	4.73	5.1	5.46	5.79	6.1	6.4
40	Refrig. Capacity (Watt)		3195	4761	6592	8729	11213	14085	17388	21163
	Power Input (W)		2089	2579	3043	3482	3894	4279	4634	4960
	Amps (A)		3.78	4.34	4.88	5.39	5.88	6.35	6.79	7.22
50	Refrig. Capacity (Watt)		1894	3308	4926	6789	8939	11418	14266	17527
	Power Input (W)		1796	2394	2970	3522	4051	4555	5032	5482
	Amps (A)		3.47	4.17	4.85	5.5	6.13	6.73	7.32	7.9
60	Refrig. Capacity (Watt)			1847	3260	4858	6683	8776	11179	13934
	Power Input (W)			2048	2742	3415	4068	4698	5305	5887
	Amps (A)			3.81	4.62	5.42	6.19	6.95	7.69	8.41

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60HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	3958	5561	7405	9524	11954	14730	17888	21462
	Power Input (W)	2478	2950	3395	3815	4209	4579	4925	5248
	Amps (A)	4.49	4.97	5.44	5.9	6.35	6.79	7.22	7.64
50	Refrig. Capacity (Watt)	2696	4173	5840	7732	9886	12336	15117	18266
	Power Input (W)	2305	2874	3419	3941	4439	4916	5371	5804
	Amps (A)	4.42	5.01	5.58	6.15	6.71	7.27	7.82	8.36
60	Refrig. Capacity (Watt)		2725	4231	5913	7806	9945	12366	15104
	Power Input (W)		2689	3337	3965	4572	5159	5726	6275
	Amps (A)		4.95	5.62	6.3	6.96	7.63	8.3	8.96