

Compressor

AGB4553ZTZ

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	11101 / 13445	37853 / 45847	79 dBA
R-404A	50HZ / 60HZ	11073 / 13412	37760 / 45735	
R-448A	50HZ / 60HZ	11112 / 13457	37891 / 45890	
R-449A	50HZ / 60HZ	11112 / 13457	37891 / 45890	
R-407C	50HZ / 60HZ	10638 / 12884	36276 / 43934	
R-22	50HZ / 60HZ	11493 / 13919	39190 / 47464	

(*) 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	44.7 kg (98 lb)
Length	361 mm (14.2 in)
Width	238 mm (9.4 in)
Height	410 mm (16.1 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	4-1/2
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)	4.03
Current RLA 50Hz (A)	7.9
Current RLA 60Hz (A)	8.4
Current LRA (A)	45
Overload	Internal

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.

Performances are given at rating conditions EN12900
 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)		3557	4955	6650	8690	11119	13985	17334	21212	25665
	Power Input (W)		1993	2360	2698	3011	3304	3580	3846	4105	4363
	Amps (A)		4.05	4.51	4.96	5.39	5.8	6.2	6.58	6.95	7.31
40	Refrig. Capacity (Watt)			3717	5189	6926	8975	11382	14193	17455	21213
	Power Input (W)			2316	2754	3161	3541	3900	4241	4569	4890
	Amps (A)			4.43	5.01	5.57	6.11	6.65	7.16	7.67	8.16
50	Refrig. Capacity (Watt)				3726	5174	6855	8815	11101	13758	16835
	Power Input (W)				2666	3187	3676	4136	4573	4992	5396
	Amps (A)				4.92	5.61	6.29	6.96	7.61	8.25	8.88
60	Refrig. Capacity (Watt)					3450	4775	6301	8073	10140	12546
	Power Input (W)					3051	3668	4252	4805	5334	5842
	Amps (A)					5.5	6.32	7.12	7.91	8.69	9.46

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50HZ R-404A

Condensing	Evaporating (°C)		-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)		3793	5224	6947	9005	11443	14304	17630	21467	25856
	Power Input (W)		2111	2490	2837	3155	3450	3726	3988	4240	4486
	Amps (A)		4.29	4.76	5.21	5.64	6.06	6.45	6.82	7.18	7.51
40	Refrig. Capacity (Watt)		2636	3915	5403	7143	9180	11556	14315	17501	21157
	Power Input (W)		1967	2455	2904	3317	3701	4058	4394	4714	5021
	Amps (A)		4.1	4.7	5.28	5.84	6.39	6.92	7.42	7.91	8.38
50	Refrig. Capacity (Watt)			2598	3868	5306	6957	8865	11073	13625	16563
	Power Input (W)			2254	2825	3355	3847	4306	4737	5144	5532
	Amps (A)			4.49	5.21	5.9	6.58	7.24	7.88	8.5	9.1
60	Refrig. Capacity (Watt)				2364	3517	4799	6255	7928	9861	12098
	Power Input (W)				2565	3230	3851	4432	4978	5494	5983
	Amps (A)				5	5.83	6.64	7.43	8.2	8.95	9.69

Performances are given at rating conditions EN12900
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)		3133	4476	6117	8108	10500	13345	16693	20596	25104
	Power Input (W)		1858	2196	2514	2812	3095	3363	3619	3865	4105
	Amps (A)		3.78	4.2	4.62	5.03	5.43	5.82	6.19	6.55	6.87
40	Refrig. Capacity (Watt)			3375	4810	6526	8572	11001	13862	17209	21091
	Power Input (W)			2175	2584	2968	3331	3674	4000	4311	4608
	Amps (A)			4.16	4.7	5.23	5.75	6.26	6.76	7.23	7.69
50	Refrig. Capacity (Watt)				3507	4966	6685	8717	11112	13921	17195
	Power Input (W)				2518	3016	3487	3932	4355	4757	5141
	Amps (A)				4.64	5.31	5.97	6.61	7.25	7.86	8.46
60	Refrig. Capacity (Watt)					3457	4869	6523	8470	10761	13448
	Power Input (W)					2900	3505	4081	4628	5148	5645
	Amps (A)					5.23	6.04	6.84	7.62	8.39	9.14

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50HZ R-449A*

Condensing	Evaporating (°C)		-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)		3133	4476	6117	8108	10500	13345	16693	20596	25104
	Power Input (W)		1858	2196	2514	2812	3095	3363	3619	3865	4105
	Amps (A)		3.78	4.2	4.62	5.03	5.43	5.82	6.19	6.55	6.87
40	Refrig. Capacity (Watt)			3375	4810	6526	8572	11001	13862	17209	21091
	Power Input (W)			2175	2584	2968	3331	3674	4000	4311	4608
	Amps (A)			4.16	4.7	5.23	5.75	6.26	6.76	7.23	7.69
50	Refrig. Capacity (Watt)				3507	4966	6685	8717	11112	13921	17195
	Power Input (W)				2518	3016	3487	3932	4355	4757	5141
	Amps (A)				4.64	5.31	5.97	6.61	7.25	7.86	8.46
60	Refrig. Capacity (Watt)					3457	4869	6523	8470	10761	13448
	Power Input (W)					2900	3505	4081	4628	5148	5645
	Amps (A)					5.23	6.04	6.84	7.62	8.39	9.14

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



Performances are given at rating conditions EN12900
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)		2766	4038	5602	7509	9813	12564	15816	19621	24031
	Power Input (W)		1659	2006	2323	2614	2881	3130	3363	3585	3798
	Amps (A)		3.38	3.84	4.27	4.68	5.06	5.42	5.75	6.07	6.36
40	Refrig. Capacity (Watt)			3009	4387	6043	8029	10398	13201	16492	20322
	Power Input (W)			1940	2359	2747	3109	3447	3765	4068	4358
	Amps (A)			3.71	4.29	4.84	5.37	5.87	6.36	6.82	7.27
50	Refrig. Capacity (Watt)			1941	3151	4574	6261	8265	10638	13432	16700
	Power Input (W)			1701	2243	2751	3227	3675	4099	4504	4891
	Amps (A)			3.41	4.14	4.84	5.52	6.18	6.82	7.44	8.05
60	Refrig. Capacity (Watt)				1942	3149	4556	6213	8173	10489	13213
	Power Input (W)				1938	2586	3197	3777	4329	4856	5362
	Amps (A)				3.8	4.67	5.51	6.33	7.13	7.92	8.69

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50HZ R-22

Condensing	Evaporating (°C)		-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)		3728	5124	6787	8759	11084	13805	16966	20610
	Power Input (W)		2301	2699	3065	3406	3726	4030	4323	4611
	Amps (A)		4.4	4.91	5.4	5.88	6.35	6.81	7.26	7.7
50	Refrig. Capacity (Watt)		2739	3974	5424	7131	9140	11493	14233	17405
	Power Input (W)		2184	2693	3166	3610	4027	4425	4807	5178
	Amps (A)		4.34	4.96	5.57	6.18	6.77	7.36	7.94	8.52
60	Refrig. Capacity (Watt)			2827	4084	5546	7258	9262	11603	14322
	Power Input (W)			2549	3148	3711	4245	4753	5242	5715
	Amps (A)			4.95	5.67	6.4	7.11	7.83	8.54	9.26

Performances are given at rating conditions EN12900
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)		4537	6284	8322	10693	13439	16602	20224	24347	29013
	Power Input (W)		2538	3029	3479	3900	4307	4712	5128	5570	6049
	Amps (A)		4.46	4.96	5.45	5.92	6.38	6.82	7.24	7.65	8.04
40	Refrig. Capacity (Watt)			4711	6554	8653	11051	13789	16910	20455	24466
	Power Input (W)			2930	3512	4046	4543	5018	5483	5952	6438
	Amps (A)			4.88	5.51	6.12	6.73	7.31	7.88	8.43	8.98
50	Refrig. Capacity (Watt)				4682	6498	8536	10837	13445	16400	19746
	Power Input (W)				3336	4029	4665	5258	5820	6365	6906
	Amps (A)				5.41	6.17	6.92	7.65	8.37	9.08	9.77
60	Refrig. Capacity (Watt)					4286	5951	7805	9887	12241	14908
	Power Input (W)					3722	4545	5304	6012	6681	7325
	Amps (A)					6.05	6.95	7.84	8.71	9.56	10.4

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60HZ R-404A

Condensing	Evaporating (°C)		-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)		4838	6625	8693	11082	13831	16980	20570	24639	29229
	Power Input (W)		2688	3196	3658	4087	4498	4903	5317	5751	6220
	Amps (A)		4.72	5.24	5.73	6.21	6.66	7.09	7.51	7.9	8.27
40	Refrig. Capacity (Watt)		3301	4963	6824	8924	11302	14000	17055	20509	24401
	Power Input (W)		2440	3105	3703	4246	4748	5222	5682	6140	6611
	Amps (A)		4.5	5.17	5.81	6.43	7.03	7.61	8.16	8.7	9.22
50	Refrig. Capacity (Watt)			3215	4861	6663	8663	10899	13412	16241	19427
	Power Input (W)			2753	3535	4240	4882	5473	6028	6560	7081
	Amps (A)			4.94	5.73	6.49	7.24	7.97	8.67	9.35	10
60	Refrig. Capacity (Watt)				2873	4370	5981	7748	9709	11905	14375
	Power Input (W)				3026	3942	4772	5530	6228	6881	7502
	Amps (A)				5.5	6.41	7.3	8.17	9.02	9.85	10.7

Performances are given at rating conditions EN12900
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)		3997	5676	7654	9977	12691	15842	19476	23639	28377
	Power Input (W)		2366	2818	3240	3642	4034	4425	4825	5245	5693
	Amps (A)		4.16	4.62	5.08	5.53	5.98	6.4	6.81	7.2	7.56
40	Refrig. Capacity (Watt)			4276	6075	8153	10556	13328	16516	20166	24324
	Power Input (W)			2752	3295	3799	4273	4727	5171	5614	6067
	Amps (A)			4.58	5.17	5.75	6.33	6.89	7.43	7.96	8.46
50	Refrig. Capacity (Watt)				4406	6237	8325	10717	13457	16593	20170
	Power Input (W)				3151	3813	4426	4999	5542	6065	6579
	Amps (A)				5.11	5.84	6.56	7.27	7.97	8.65	9.31
60	Refrig. Capacity (Watt)					4297	6070	8079	10370	12990	15983
	Power Input (W)					3535	4343	5091	5790	6450	7079
	Amps (A)					5.75	6.64	7.52	8.38	9.23	10.1

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60HZ R-449A*

Condensing	Evaporating (°C)		-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)		3997	5676	7654	9977	12691	15842	19476	23639	28377
	Power Input (W)		2366	2818	3240	3642	4034	4425	4825	5245	5693
	Amps (A)		4.16	4.62	5.08	5.53	5.98	6.4	6.81	7.2	7.56
40	Refrig. Capacity (Watt)			4276	6075	8153	10556	13328	16516	20166	24324
	Power Input (W)			2752	3295	3799	4273	4727	5171	5614	6067
	Amps (A)			4.58	5.17	5.75	6.33	6.89	7.43	7.96	8.46
50	Refrig. Capacity (Watt)				4406	6237	8325	10717	13457	16593	20170
	Power Input (W)				3151	3813	4426	4999	5542	6065	6579
	Amps (A)				5.11	5.84	6.56	7.27	7.97	8.65	9.31
60	Refrig. Capacity (Watt)					4297	6070	8079	10370	12990	15983
	Power Input (W)					3535	4343	5091	5790	6450	7079
	Amps (A)					5.75	6.64	7.52	8.38	9.23	10.1

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.

Performances are given at rating conditions EN12900
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)		3532	5122	7008	9239	11859	14915	18454	22522	27164
	Power Input (W)		2114	2575	2995	3385	3756	4119	4484	4863	5266
	Amps (A)		3.71	4.22	4.7	5.14	5.56	5.96	6.33	6.68	7
40	Refrig. Capacity (Watt)			3812	5540	7549	9886	12597	15728	19326	23437
	Power Input (W)			2454	3008	3516	3988	4435	4869	5299	5737
	Amps (A)			4.08	4.72	5.32	5.91	6.46	7	7.51	8
50	Refrig. Capacity (Watt)			2390	3958	5745	7797	10162	12884	16011	19588
	Power Input (W)			2074	2807	3477	4094	4671	5217	5743	6261
	Amps (A)			3.75	4.55	5.32	6.07	6.8	7.5	8.19	8.85
60	Refrig. Capacity (Watt)				2350	3913	5679	7695	10007	12662	15704
	Power Input (W)				2277	3154	3962	4712	5415	6082	6724
	Amps (A)				4.18	5.13	6.06	6.96	7.84	8.71	9.55

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60HZ R-22

Condensing	Evaporating (°C)		-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)		4723	6471	8480	10786	13429	16448	19882	23769
	Power Input (W)		2911	3441	3923	4370	4794	5210	5631	6070
	Amps (A)		4.84	5.4	5.94	6.47	6.98	7.49	7.98	8.47
50	Refrig. Capacity (Watt)		3379	4991	6812	8881	11237	13919	16965	20415
	Power Input (W)		2669	3369	4001	4580	5119	5631	6130	6628
	Amps (A)		4.78	5.46	6.13	6.79	7.45	8.1	8.74	9.37
60	Refrig. Capacity (Watt)			3436	5076	6914	8989	11340	14005	17023
	Power Input (W)			3016	3843	4598	5295	5946	6566	7167
	Amps (A)			5.44	6.24	7.04	7.83	8.61	9.4	10.2