



tecumseh

AG4553P

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

Compressor

AG4553P-TZ1A

HBP

R-404A / R-448A / R-449A / R-452A / R-454C / R-455A

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	82.2 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-454C	50HZ / 60HZ	9717 / 11769	33136 / 40133	
R-455A	50HZ / 60HZ	10329 / 12699	35222 / 43304	

(*) 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 (99 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	4.5 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)	3.98
Current RLA 50Hz (A)	8.1
Current RLA 60Hz (A)	8.9
Current MCC (A)	13.7
Current LRA (A)	46
Overload	Internal

Pressure Equipment Directive

Max. Ambient Temp. (°C)	+46 °C
Max. Allowable Press. (bar)	21.5 bar
Ambient Temp. Range (°C)	-35/+150 °C
Leak Test pressure (bar)	23.7 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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400V 3~ 50 Hz / 440V 3~ 60 Hz

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



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

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.



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AG4553P

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

Performances are given at rating conditions EN12900
Conditions DEW

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

50HZ R-454C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2897	4133	5619	7397	9508	11992	14892	18248	22102
	Power Input (W)	1579	1888	2156	2395	2615	2826	3039	3265	3513
	Amps (A)	3.21	3.61	3.96	4.29	4.59	4.89	5.2	5.53	5.88
40	Refrig. Capacity (Watt)		3085	4382	5899	7677	9758	12183	14994	18231
	Power Input (W)		1845	2207	2522	2801	3055	3295	3531	3773
	Amps (A)		3.53	4.01	4.44	4.84	5.21	5.57	5.93	6.3
50	Refrig. Capacity (Watt)			3190	4495	5990	7717	9717	12032	14701
	Power Input (W)			2143	2568	2941	3273	3573	3854	4124
	Amps (A)			3.95	4.52	5.03	5.5	5.95	6.37	6.79
60	Refrig. Capacity (Watt)				3141	4402	5824	7448	9315	11467
	Power Input (W)				2487	2988	3431	3827	4185	4518
	Amps (A)				4.49	5.15	5.75	6.3	6.82	7.32

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50HZ R-455A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2885	4192	5772	7666	9917	12566	15656	19227	23322
	Power Input (W)	1549	1902	2220	2512	2785	3048	3310	3579	3864
	Amps (A)	3.72	4.08	4.42	4.74	5.04	5.31	5.56	5.79	6
40	Refrig. Capacity (Watt)		3066	4449	6092	8036	10323	12996	16095	19662
	Power Input (W)		1841	2250	2617	2952	3262	3556	3843	4130
	Amps (A)		3.97	4.43	4.88	5.3	5.7	6.07	6.43	6.76
50	Refrig. Capacity (Watt)			3129	4518	6153	8076	10329	12953	15991
	Power Input (W)			2141	2609	3029	3410	3760	4088	4403
	Amps (A)			4.28	4.84	5.39	5.91	6.42	6.9	7.36
60	Refrig. Capacity (Watt)				3017	4340	5896	7727	9874	12380
	Power Input (W)				2437	2966	3442	3873	4267	4632
	Amps (A)				4.64	5.32	5.97	6.59	7.2	7.78



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AG4553P

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

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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)	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



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

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

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AG4553P

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

Performances are given at rating conditions EN12900
Conditions DEW

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

60HZ R-454C

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3695	5243	7033	9104	11493	14238	17375	20943	24979
	Power Input (W)	2010	2423	2780	3100	3406	3716	4051	4433	4880
	Amps (A)	3.53	3.97	4.36	4.71	5.05	5.38	5.72	6.08	6.47
40	Refrig. Capacity (Watt)		3907	5533	7370	9454	11824	14518	17572	21025
	Power Input (W)		2335	2817	3229	3593	3928	4256	4596	4969
	Amps (A)		3.88	4.41	4.89	5.32	5.73	6.12	6.52	6.93
50	Refrig. Capacity (Watt)			4008	5643	7457	9486	11769	14343	17246
	Power Input (W)			2680	3249	3736	4162	4547	4911	5276
	Amps (A)			4.35	4.97	5.54	6.05	6.54	7.01	7.47
60	Refrig. Capacity (Watt)				3913	5489	7211	9117	11244	13629
	Power Input (W)				3024	3701	4283	4790	5244	5665
	Amps (A)				4.93	5.66	6.33	6.94	7.5	8.05

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60HZ R-455A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3592	5110	6906	9027	11518	14428	17803	21691	26136
	Power Input (W)	1964	2347	2702	3036	3355	3665	3974	4287	4610
	Amps (A)	3.44	3.83	4.22	4.61	5	5.38	5.75	6.12	6.49
40	Refrig. Capacity (Watt)		3938	5596	7524	9768	12377	15396	18872	22852
	Power Input (W)		2336	2800	3233	3642	4034	4415	4792	5170
	Amps (A)		3.81	4.33	4.85	5.37	5.88	6.39	6.89	7.39
50	Refrig. Capacity (Watt)			4118	5823	7790	10067	12699	15734	19219
	Power Input (W)			2716	3272	3796	4293	4770	5234	5690
	Amps (A)			4.24	4.89	5.53	6.18	6.82	7.45	8.08
60	Refrig. Capacity (Watt)				4036	5696	7610	9825	12389	15348
	Power Input (W)				3086	3747	4373	4970	5544	6103
	Amps (A)				4.72	5.5	6.27	7.05	7.81	8.58