



tecumseh

AG4553P

400V 3~ 50Hz / 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	5922 / 7395	20193 / 25215	82.2 dBA
R-404A	50HZ / 60HZ	5973 / 7458	20369 / 25433	
R-448A	50HZ / 60HZ	5905 / 7375	20137 / 25148	
R-449A	50HZ / 60HZ	5896 / 7363	20105 / 25108	
R-454C	50HZ / 60HZ	5261 / 6568	17941 / 22397	
R-455A	50HZ / 60HZ	5414 / 6864	18463 / 23407	

(*) 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	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	4-1/2
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)	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
Max. Allowable Press. (bar)	21.5
Ambient Temp. Range (°C)	-35/+150
Leak Test pressure (bar)	23.7
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

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8940	13586	19496	26951	36255	47732	61730	78622
	Power Input	(W)	1882	2321	2721	3088	3430	3751	4059	4360
	Amps	(A)	3.91	4.45	4.98	5.49	5.98	6.45	6.9	7.34
105	Refrig. Capacity	(Btu/h)	6152	10309	15478	21930	29959	39889	52076	66906
	Power Input	(W)	1718	2258	2753	3210	3634	4032	4411	4775
	Amps	(A)	3.69	4.36	5.01	5.64	6.25	6.84	7.42	7.98
120	Refrig. Capacity	(Btu/h)			11523	16988	23763	32166	42556	55339
	Power Input	(W)			2684	3246	3769	4259	4724	5168
	Amps	(A)			4.93	5.69	6.42	7.14	7.85	8.54
140	Refrig. Capacity	(Btu/h)				10609	15730	22117	30132	40204
	Power Input	(W)				3122	3801	4439	5043	5618
	Amps	(A)				5.6	6.5	7.39	8.26	9.12

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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	11369	17268	24471	33238	43852	56614	71850	89901
	Power Input	(W)	2378	2967	3498	3988	4455	4918	5396	5905
	Amps	(A)	4.3	4.9	5.48	6.04	6.57	7.09	7.59	8.07
105	Refrig. Capacity	(Btu/h)	7623	13052	19552	27372	36789	48105	61650	77788
	Power Input	(W)	2108	2849	3509	4108	4662	5191	5712	6244
	Amps	(A)	4.06	4.79	5.51	6.2	6.87	7.53	8.16	8.78
120	Refrig. Capacity	(Btu/h)			14502	21319	29485	39299	51098	65263
	Power Input	(W)			3370	4114	4792	5424	6026	6617
	Amps	(A)			5.43	6.26	7.07	7.86	8.63	9.39
140	Refrig. Capacity	(Btu/h)				13195	19592	27305	36677	48118
	Power Input	(W)				3817	4719	5545	6313	7041
	Amps	(A)				6.15	7.15	8.13	9.09	10



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

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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-404A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	9447	14178	20164	27677	37014	48500	62486	79352
	Power Input (W)	1999	2452	2862	3236	3580	3899	4201	4491
	Amps (A)	4.15	4.71	5.24	5.75	6.24	6.7	7.14	7.56
105	Refrig. Capacity (Btu/h)	6509	10723	15927	22382	30376	40231	52303	66995
	Power Input (W)	1838	2395	2904	3368	3795	4190	4561	4913
	Amps (A)	3.94	4.62	5.28	5.91	6.52	7.11	7.67	8.21
120	Refrig. Capacity (Btu/h)		7342	11783	17205	23884	32136	42320	54858
	Power Input (W)		2221	2842	3413	3939	4426	4882	5312
	Amps (A)		4.44	5.22	5.98	6.71	7.42	8.11	8.77
140	Refrig. Capacity (Btu/h)			6521	10586	15544	21694	29398	39105
	Power Input (W)			2565	3301	3984	4618	5211	5769
	Amps (A)			5	5.92	6.81	7.69	8.54	9.37

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60HZ R-404A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	12012	18021	25309	34133	44771	57526	72729	90736
	Power Input (W)	2526	3135	3679	4178	4650	5112	5583	6082
	Amps (A)	4.56	5.18	5.76	6.33	6.86	7.37	7.86	8.31
105	Refrig. Capacity (Btu/h)	8074	13579	20118	27935	37301	48518	61921	77891
	Power Input (W)	2258	3022	3700	4309	4868	5394	5907	6424
	Amps (A)	4.34	5.08	5.81	6.5	7.18	7.82	8.44	9.04
120	Refrig. Capacity (Btu/h)		9099	14830	21589	29634	39263	50816	64696
	Power Input (W)		2720	3568	4325	5008	5636	6228	6801
	Amps (A)		4.89	5.74	6.58	7.38	8.16	8.92	9.65
140	Refrig. Capacity (Btu/h)			7926	13167	19358	26782	35785	46803
	Power Input (W)			3026	4038	4946	5768	6523	7229
	Amps (A)			5.5	6.51	7.5	8.46	9.39	10.3



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8207	12756	18541	25846	34970	46230	59959	76503
	Power Input	(W)	1763	2164	2538	2887	3215	3525	3819	4101
	Amps	(A)	3.66	4.15	4.65	5.13	5.6	6.06	6.49	6.9
105	Refrig. Capacity	(Btu/h)		9794	14917	21319	29298	39168	51268	65958
	Power Input	(W)		2122	2584	3016	3421	3802	4163	4505
	Amps	(A)		4.09	4.7	5.3	5.88	6.45	7	7.53
120	Refrig. Capacity	(Btu/h)			11344	16885	23760	32282	42793	55666
	Power Input	(W)			2534	3070	3573	4047	4495	4918
	Amps	(A)			4.66	5.38	6.09	6.79	7.47	8.12
140	Refrig. Capacity	(Btu/h)				11228	16692	23479	31932	42439
	Power Input	(W)				2969	3636	4266	4862	5427
	Amps	(A)				5.32	6.22	7.1	7.97	8.81

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	10433	16211	23272	31877	42301	54836	69788	87475
	Power Input	(W)	2227	2766	3262	3727	4176	4621	5076	5555
	Amps	(A)	4.02	4.57	5.11	5.64	6.16	6.67	7.14	7.59
105	Refrig. Capacity	(Btu/h)		12394	18842	26613	35981	47237	60694	76683
	Power Input	(W)		2678	3294	3860	4389	4894	5390	5889
	Amps	(A)		4.5	5.17	5.83	6.47	7.1	7.7	8.28
120	Refrig. Capacity	(Btu/h)			14274	21192	29483	39440	51380	65649
	Power Input	(W)			3182	3892	4545	5154	5733	6296
	Amps	(A)			5.12	5.92	6.7	7.47	8.21	8.93
140	Refrig. Capacity	(Btu/h)				13970	20791	28979	38859	50794
	Power Input	(W)				3628	4514	5329	6087	6802
	Amps	(A)				5.85	6.84	7.81	8.76	9.69

* 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

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8186	12729	18510	25812	34938	46206	59951	76525
	Power Input	(W)	1763	2164	2538	2887	3215	3525	3819	4101
	Amps	(A)	3.66	4.15	4.65	5.13	5.6	6.06	6.49	6.9
105	Refrig. Capacity	(Btu/h)		9770	14887	21286	29266	39143	51260	65980
	Power Input	(W)		2122	2584	3016	3421	3802	4163	4505
	Amps	(A)		4.09	4.7	5.3	5.88	6.45	7	7.53
120	Refrig. Capacity	(Btu/h)			11316	16854	23729	32258	42786	55689
	Power Input	(W)			2534	3070	3573	4047	4495	4918
	Amps	(A)			4.66	5.38	6.09	6.79	7.47	8.12
140	Refrig. Capacity	(Btu/h)				11200	16663	23456	31925	42463
	Power Input	(W)				2969	3636	4266	4862	5427
	Amps	(A)				5.32	6.22	7.1	7.97	8.81

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	10407	16177	23232	31834	42262	54807	69779	87500
	Power Input	(W)	2227	2766	3262	3727	4176	4621	5076	5555
	Amps	(A)	4.02	4.57	5.11	5.64	6.16	6.67	7.14	7.59
105	Refrig. Capacity	(Btu/h)		12363	18804	26572	35942	47208	60685	76709
	Power Input	(W)		2678	3294	3860	4389	4894	5390	5889
	Amps	(A)		4.5	5.17	5.83	6.47	7.1	7.7	8.28
120	Refrig. Capacity	(Btu/h)			14240	21152	29445	39411	51371	65676
	Power Input	(W)			3182	3892	4545	5154	5733	6296
	Amps	(A)			5.12	5.92	6.7	7.47	8.21	8.93
140	Refrig. Capacity	(Btu/h)				13935	20754	28950	38850	50823
	Power Input	(W)				3628	4514	5329	6087	6802
	Amps	(A)				5.85	6.84	7.81	8.76	9.69

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

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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7424	11586	16796	23291	31320	41150	53059	67340
	Power Input	(W)	1478	1854	2175	2454	2707	2947	3190	3449
	Amps	(A)	3.07	3.56	3.98	4.36	4.72	5.07	5.42	5.8
105	Refrig. Capacity	(Btu/h)		8810	13418	19070	26010	34499	44819	57268
	Power Input	(W)		1795	2206	2560	2870	3150	3416	3681
	Amps	(A)		3.47	4.01	4.49	4.93	5.35	5.75	6.15
120	Refrig. Capacity	(Btu/h)			10177	15101	21072	28346	37200	47941
	Power Input	(W)			2157	2611	3004	3351	3666	3964
	Amps	(A)			3.96	4.57	5.12	5.62	6.09	6.55
140	Refrig. Capacity	(Btu/h)				10071	14926	20762	27854	36510
	Power Input	(W)				2546	3091	3568	3990	4373
	Amps	(A)				4.56	5.29	5.94	6.54	7.1

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60HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9432	14726	21086	28731	37892	48815	61757	76988
	Power Input	(W)	1865	2372	2796	3167	3512	3860	4239	4676
	Amps	(A)	3.38	3.91	4.38	4.8	5.19	5.57	5.97	6.38
105	Refrig. Capacity	(Btu/h)		11144	16945	23804	31947	41615	53068	66581
	Power Input	(W)		2265	2815	3277	3680	4051	4419	4811
	Amps	(A)		3.81	4.41	4.94	5.43	5.88	6.32	6.77
120	Refrig. Capacity	(Btu/h)			12804	18945	26141	34630	44671	56546
	Power Input	(W)			2708	3312	3823	4268	4675	5072
	Amps	(A)			4.36	5.03	5.63	6.18	6.7	7.2
140	Refrig. Capacity	(Btu/h)				12555	18590	25617	33890	43698
	Power Input	(W)				3105	3838	4459	4998	5481
	Amps	(A)				5.02	5.82	6.53	7.19	7.81



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7387	11795	17357	24313	32916	43435	56148	71345
	Power Input	(W)	1437	1861	2236	2575	2889	3188	3486	3792
	Amps	(A)	3.6	4.03	4.44	4.82	5.18	5.51	5.81	6.08
105	Refrig. Capacity	(Btu/h)		8791	13702	19819	27391	36689	47997	61617
	Power Input	(W)		1785	2248	2660	3031	3373	3698	4017
	Amps	(A)		3.9	4.43	4.93	5.4	5.84	6.26	6.65
120	Refrig. Capacity	(Btu/h)			10112	15374	21901	29960	39842	51860
	Power Input	(W)			2162	2664	3112	3515	3886	4237
	Amps	(A)			4.3	4.92	5.5	6.06	6.6	7.1
140	Refrig. Capacity	(Btu/h)				9775	14882	21261	29206	39048
	Power Input	(W)				2498	3076	3590	4052	4473
	Amps	(A)				4.72	5.46	6.18	6.86	7.53

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60HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9360	14586	21011	28899	38528	50193	64201	80873
	Power Input	(W)	1857	2315	2736	3128	3500	3861	4220	4585
	Amps	(A)	3.32	3.8	4.27	4.73	5.19	5.64	6.09	6.53
105	Refrig. Capacity	(Btu/h)		11354	17280	24492	33267	43901	56709	72026
	Power Input	(W)		2276	2801	3287	3745	4182	4607	5030
	Amps	(A)		3.74	4.33	4.92	5.5	6.07	6.64	7.21
120	Refrig. Capacity	(Btu/h)			13243	19685	27510	37015	48523	62382
	Power Input	(W)			2736	3336	3897	4429	4939	5438
	Amps	(A)			4.26	4.96	5.67	6.36	7.06	7.74
140	Refrig. Capacity	(Btu/h)				13048	19455	27298	36910	48660
	Power Input	(W)				3161	3889	4575	5227	5856
	Amps	(A)				4.81	5.67	6.53	7.39	8.24