



tecumseh

AG4561P

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

Compressor

AG4561P-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	6753 / 8548	23027 / 29149	82.7 dBA
R-404A	50HZ / 60HZ	6812 / 8622	23228 / 29400	
R-448A	50HZ / 60HZ	6734 / 8526	22965 / 29075	
R-449A	50HZ / 60HZ	6724 / 8513	22928 / 29029	
R-454C	50HZ / 60HZ	6205 / 7454	21160 / 25417	
R-455A	50HZ / 60HZ	6730 / 8014	22951 / 27328	

(*) 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	45.2 kg (100 lb)
Length	361 mm (14.2 in)
Width	238 mm (9.4 in)
Height	410 mm (16.1 in)
Ø Suction Tube	1-1/8 in (28.6mm)
Ø Discharge Tube	5/8 in (15.9mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	112.5
Horse Power	5
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)	3.32
Current RLA 50Hz (A)	9.2
Current RLA 60Hz (A)	9.6
Current MCC (A)	15.1
Current LRA (A)	59
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)	10584	15677	22090	30129	40126	52436	67444	85554
	Power Input (W)	2158	2608	3032	3451	3886	4359	4890	5501
	Amps (A)	4.06	4.56	5.09	5.66	6.25	6.87	7.53	8.22
105	Refrig. Capacity (Btu/h)	7512	12147	17812	24800	33433	44062	57074	72892
	Power Input (W)	2039	2597	3110	3598	4083	4585	5126	5727
	Amps (A)	3.94	4.53	5.15	5.8	6.48	7.19	7.93	8.71
120	Refrig. Capacity (Btu/h)			13542	19545	26885	35907	46999	60599
	Power Input (W)			3095	3680	4242	4802	5381	6001
	Amps (A)			5.15	5.89	6.65	7.45	8.28	9.15
140	Refrig. Capacity (Btu/h)				12565	18272	25252	33891	44649
	Power Input (W)				3630	4339	5019	5692	6380
	Amps (A)				5.91	6.8	7.72	8.67	9.66

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60HZ R-452A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	13610	19794	27857	37774	49512	63027	78265	95156
	Power Input (W)	2690	3290	3877	4468	5083	5741	6460	7260
	Amps (A)	4.39	5.17	6	6.87	7.79	8.76	9.78	10.9
105	Refrig. Capacity (Btu/h)	10399	15532	22463	31184	41677	53916	67868	83491
	Power Input (W)	2529	3248	3931	4595	5260	5945	6668	7447
	Amps (A)	4.3	5.14	6.03	6.97	7.95	8.99	10.1	11.2
120	Refrig. Capacity (Btu/h)			17298	24769	33959	44862	57471	71777
	Power Input (W)			3880	4655	5408	6157	6920	7718
	Amps (A)			6	7	8.05	9.15	10.3	11.5
140	Refrig. Capacity (Btu/h)				15847	23167	32156	42852	55307
	Power Input (W)				4523	5451	6344	7221	8101
	Amps (A)				6.94	8.08	9.27	10.5	11.8



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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)	11183	16360	22846	30939	40966	53281	68269	86350
	Power Input	(W)	2292	2755	3189	3616	4056	4531	5061	5666
	Amps	(A)	4.31	4.82	5.36	5.93	6.52	7.14	7.79	8.47
105	Refrig. Capacity	(Btu/h)	7953	12637	18329	25311	33899	44440	57324	72988
	Power Input	(W)	2183	2756	3279	3775	4263	4765	5301	5893
	Amps	(A)	4.21	4.81	5.43	6.08	6.76	7.47	8.2	8.97
120	Refrig. Capacity	(Btu/h)		8891	13849	19794	27022	35874	46738	60070
	Power Input	(W)		2637	3278	3869	4434	4991	5562	6168
	Amps	(A)		4.75	5.45	6.19	6.95	7.74	8.56	9.41
140	Refrig. Capacity	(Btu/h)			7899	12536	18054	24769	33068	43430
	Power Input	(W)			3075	3839	4547	5222	5882	6550
	Amps	(A)			5.4	6.25	7.13	8.03	8.96	9.92

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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	14353	20661	28816	38790	50548	64046	79232	96040
	Power Input	(W)	2858	3476	4078	4682	5305	5967	6685	7478
	Amps	(A)	4.66	5.46	6.31	7.2	8.13	9.11	10.1	11.2
105	Refrig. Capacity	(Btu/h)	10936	16153	23119	31825	42254	54380	68172	83598
	Power Input	(W)	2708	3446	4145	4821	5492	6178	6895	7663
	Amps	(A)	4.59	5.46	6.36	7.31	8.3	9.34	10.4	11.5
120	Refrig. Capacity	(Btu/h)		11964	17699	25086	34127	44818	57159	71155
	Power Input	(W)		3277	4109	4894	5651	6398	7152	7933
	Amps	(A)		5.39	6.35	7.36	8.42	9.51	10.7	11.8
140	Refrig. Capacity	(Btu/h)			10322	15824	22877	31521	41807	53810
	Power Input	(W)			3794	4784	5713	6600	7462	8317
	Amps	(A)			6.25	7.34	8.47	9.65	10.9	12.1



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Conditions DEW

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Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9715	14719	21009	28894	38705	50788	65508	83246
	Power Input	(W)	2021	2432	2827	3225	3642	4095	4601	5176
	Amps	(A)	3.8	4.25	4.75	5.29	5.86	6.46	7.09	7.74
105	Refrig. Capacity	(Btu/h)		11536	17165	24111	32696	43265	56188	71857
	Power Input	(W)		2441	2919	3381	3843	4323	4837	5402
	Amps	(A)		4.26	4.83	5.45	6.1	6.78	7.49	8.22
120	Refrig. Capacity	(Btu/h)			13329	19427	26883	36037	47260	60957
	Power Input	(W)			2922	3482	4023	4564	5120	5709
	Amps	(A)			4.86	5.57	6.31	7.08	7.88	8.71
140	Refrig. Capacity	(Btu/h)				13301	19390	26803	35911	47130
	Power Input	(W)				3449	4149	4824	5490	6164
	Amps	(A)				5.62	6.5	7.42	8.36	9.34

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	12538	18575	26485	36230	47767	61044	76005	92581
	Power Input	(W)	2521	3068	3614	4175	4763	5393	6078	6831
	Amps	(A)	4.11	4.82	5.59	6.42	7.3	8.23	9.21	10.2
105	Refrig. Capacity	(Btu/h)		14756	21640	30320	40767	52942	66804	82305
	Power Input	(W)		3054	3690	4318	4951	5604	6291	7024
	Amps	(A)		4.84	5.66	6.55	7.49	8.48	9.51	10.6
120	Refrig. Capacity	(Btu/h)			17008	24617	33964	45027	57781	72202
	Power Input	(W)			3664	4405	5129	5851	6584	7343
	Amps	(A)			5.67	6.63	7.64	8.7	9.81	11
140	Refrig. Capacity	(Btu/h)				16767	24610	34150	45395	58358
	Power Input	(W)				4296	5213	6097	6964	7827
	Amps	(A)				6.59	7.72	8.91	10.1	11.4

* 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

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Superheat : 32 °F

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9691	14688	20973	28856	38669	50761	65500	83270
	Power Input	(W)	2021	2432	2827	3225	3642	4095	4601	5176
	Amps	(A)	3.8	4.25	4.75	5.29	5.86	6.46	7.09	7.74
105	Refrig. Capacity	(Btu/h)		11508	17131	24074	32660	43238	56180	71881
	Power Input	(W)		2441	2919	3381	3843	4323	4837	5402
	Amps	(A)		4.26	4.83	5.45	6.1	6.78	7.49	8.22
120	Refrig. Capacity	(Btu/h)			13297	19391	26848	36010	47252	60983
	Power Input	(W)			2922	3482	4023	4564	5120	5709
	Amps	(A)			4.86	5.57	6.31	7.08	7.88	8.71
140	Refrig. Capacity	(Btu/h)				13268	19356	26776	35902	47157
	Power Input	(W)				3449	4149	4824	5490	6164
	Amps	(A)				5.62	6.5	7.42	8.36	9.34

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	12506	18536	26440	36182	47722	61012	75996	92608
	Power Input	(W)	2521	3068	3614	4175	4763	5393	6078	6831
	Amps	(A)	4.11	4.82	5.59	6.42	7.3	8.23	9.21	10.2
105	Refrig. Capacity	(Btu/h)		14720	21596	30273	40723	52909	66794	82333
	Power Input	(W)		3054	3690	4318	4951	5604	6291	7024
	Amps	(A)		4.84	5.66	6.55	7.49	8.48	9.51	10.6
120	Refrig. Capacity	(Btu/h)			16967	24572	33920	44993	57771	72232
	Power Input	(W)			3664	4405	5129	5851	6584	7343
	Amps	(A)			5.67	6.63	7.64	8.7	9.81	11
140	Refrig. Capacity	(Btu/h)				16725	24566	34116	45384	58391
	Power Input	(W)				4296	5213	6097	6964	7827
	Amps	(A)				6.59	7.72	8.91	10.1	11.4

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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)	9359	13927	19654	26797	35628	46435	59521	75204
	Power Input	(W)	1827	2183	2535	2870	3173	3429	3624	3745
	Amps	(A)	4.3	4.64	5.01	5.41	5.84	6.29	6.76	7.27
105	Refrig. Capacity	(Btu/h)		10904	15991	22304	30112	39705	51393	65505
	Power Input	(W)		2180	2593	3003	3393	3750	4060	4308
	Amps	(A)		4.65	5.09	5.56	6.05	6.57	7.12	7.69
120	Refrig. Capacity	(Btu/h)			12450	17942	24738	33127	43423	55970
	Power Input	(W)			2583	3059	3529	3979	4394	4762
	Amps	(A)			5.12	5.65	6.22	6.81	7.42	8.07
140	Refrig. Capacity	(Btu/h)				12462	17921	24716	33169	43640
	Power Input	(W)				3016	3578	4139	4682	5195
	Amps	(A)				5.71	6.36	7.05	7.76	8.49

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60HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	11295	16278	22425	29994	39259	50511	64056	80212
	Power Input	(W)	2193	2613	3033	3441	3824	4171	4468	4704
	Amps	(A)	3.9	4.34	4.8	5.29	5.8	6.32	6.87	7.44
105	Refrig. Capacity	(Btu/h)		13388	19089	26066	34592	44961	57488	72508
	Power Input	(W)		2658	3151	3642	4117	4565	4972	5327
	Amps	(A)		4.36	4.91	5.48	6.07	6.69	7.32	7.98
120	Refrig. Capacity	(Btu/h)			15472	21764	29457	38847	50260	64048
	Power Input	(W)			3182	3755	4321	4868	5385	5858
	Amps	(A)			4.94	5.6	6.28	6.99	7.71	8.45
140	Refrig. Capacity	(Btu/h)				15725	22158	30091	39863	51854
	Power Input	(W)				3738	4423	5102	5762	6391
	Amps	(A)				5.66	6.46	7.27	8.11	8.97



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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)	9929	14821	20949	28591	38042	49613	63629	80428
	Power Input	(W)	1944	2316	2684	3033	3347	3611	3809	3925
	Amps	(A)	4.37	4.81	5.24	5.68	6.12	6.56	7.01	7.46
105	Refrig. Capacity	(Btu/h)		11725	17244	24089	32551	42944	55600	70873
	Power Input	(W)		2331	2768	3200	3612	3989	4314	4571
	Amps	(A)		4.76	5.3	5.84	6.38	6.92	7.47	8.02
120	Refrig. Capacity	(Btu/h)			13443	19438	26858	36017	47256	60941
	Power Input	(W)			2767	3274	3776	4256	4699	5090
	Amps	(A)			5.29	5.93	6.57	7.22	7.87	8.52
140	Refrig. Capacity	(Btu/h)				13299	19246	26673	35927	47399
	Power Input	(W)				3205	3813	4419	5007	5562
	Amps	(A)				5.96	6.74	7.52	8.3	9.09

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60HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	11886	17366	24059	32241	42209	54272	68757	86001
	Power Input	(W)	2273	2730	3181	3616	4021	4385	4695	4940
	Amps	(A)	3.97	4.41	4.92	5.49	6.13	6.84	7.62	8.46
105	Refrig. Capacity	(Btu/h)		14113	20400	28055	37371	48667	62277	78559
	Power Input	(W)		2751	3297	3836	4357	4847	5293	5685
	Amps	(A)		4.44	5.02	5.67	6.39	7.18	8.03	8.96
120	Refrig. Capacity	(Btu/h)			16323	23288	31790	42151	54718	69870
	Power Input	(W)			3302	3948	4585	5202	5786	6326
	Amps	(A)			5.05	5.78	6.57	7.44	8.37	9.37
140	Refrig. Capacity	(Btu/h)				16485	23645	32496	43407	56788
	Power Input	(W)				3883	4678	5466	6236	6975
	Amps	(A)				5.8	6.7	7.67	8.7	9.81