



tecumseh

TAG4581Z

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

Compressor

AGB4581ZTZ

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	16610 / 19468	56641 / 66384	
R-404A	50HZ / 60HZ	16569 / 19419	56501 / 66219	
R-448A	50HZ / 60HZ	16626 / 19487	56696 / 66451	
R-449A	50HZ / 60HZ	16626 / 19487	56696 / 66451	
R-407C	50HZ / 60HZ	15918 / 18656	54279 / 63618	
R-22	50HZ / 60HZ	17193 / 20149	58628 / 68710	

(*) 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	47.9 kg (106 lb)
Length	361 mm (14.2 in)
Width	238 mm (9.4 in)
Height	423 mm (16.7 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)	145
Horse Power	6.5 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)	1.63
Current RLA 50Hz (A)	12.7
Current RLA 60Hz (A)	13.9
Current MCC (A)	20.8
Current LRA (A)	85
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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400V 3~ 50 Hz / 440V 3~ 60 Hz

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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)	6133	8066	10337	12997	16099	19692	23829	28560	33937
	Power Input (W)	3373	3866	4327	4774	5222	5687	6186	6734	7348
	Amps (A)	6.76	7.25	7.77	8.33	8.91	9.52	10.2	10.9	11.6
40	Refrig. Capacity (Watt)		6532	8577	10925	13626	16733	20296	24366	28995
	Power Input (W)		3950	4533	5083	5614	6144	6687	7261	7882
	Amps (A)		7.36	8	8.68	9.39	10.1	10.9	11.7	12.6
50	Refrig. Capacity (Watt)			6711	8734	11024	13633	16610	20008	23878
	Power Input (W)			4593	5280	5930	6559	7183	7818	8480
	Amps (A)			8.14	8.95	9.79	10.7	11.6	12.5	13.5
60	Refrig. Capacity (Watt)				6432	8300	10398	12779	15493	18592
	Power Input (W)				5321	6124	6887	7626	8356	9095
	Amps (A)				9.12	10.1	11.1	12.1	13.2	14.3

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	6540	8504	10797	13470	16568	20141	24237	28904	34190
	Power Input (W)	3573	4078	4549	5003	5454	5919	6413	6954	7556
	Amps (A)	7.16	7.65	8.17	8.72	9.3	9.91	10.5	11.2	11.9
40	Refrig. Capacity (Watt)	5068	6881	8931	11267	13937	16989	20471	24431	28918
	Power Input (W)	3539	4186	4779	5334	5867	6393	6929	7491	8094
	Amps (A)	7.18	7.8	8.44	9.11	9.82	10.5	11.3	12.1	12.9
50	Refrig. Capacity (Watt)		5169	6966	8957	11189	13710	16569	19814	23492
	Power Input (W)		4118	4867	5558	6206	6828	7439	8056	8694
	Amps (A)		7.86	8.63	9.42	10.2	11.1	12	12.9	13.8
60	Refrig. Capacity (Watt)			4920	6557	8341	10323	12549	15069	17929
	Power Input (W)			4771	5631	6429	7181	7901	8607	9314
	Amps (A)			8.73	9.65	10.6	11.6	12.6	13.6	14.7



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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)	5403	7284	9507	12128	15204	18792	22949	27731	33196
	Power Input (W)	3145	3597	4031	4458	4891	5341	5820	6341	6916
	Amps (A)	6.3	6.75	7.24	7.78	8.34	8.95	9.57	10.2	10.9
40	Refrig. Capacity (Watt)		5928	7950	10293	13015	16172	19822	24021	28826
	Power Input (W)		3708	4253	4773	5281	5788	6307	6849	7427
	Amps (A)		6.91	7.51	8.15	8.84	9.55	10.3	11.1	11.8
50	Refrig. Capacity (Watt)			6317	8384	10753	13482	16626	20244	24391
	Power Input (W)			4339	4998	5626	6236	6840	7450	8077
	Amps (A)			7.69	8.47	9.29	10.1	11	11.9	12.9
60	Refrig. Capacity (Watt)				6444	8462	10763	13404	16441	19932
	Power Input (W)				5055	5851	6610	7344	8067	8789
	Amps (A)				8.67	9.64	10.7	11.7	12.8	13.9

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	5403	7284	9507	12128	15204	18792	22949	27731	33196
	Power Input (W)	3145	3597	4031	4458	4891	5341	5820	6341	6916
	Amps (A)	6.3	6.75	7.24	7.78	8.34	8.95	9.57	10.2	10.9
40	Refrig. Capacity (Watt)		5928	7950	10293	13015	16172	19822	24021	28826
	Power Input (W)		3708	4253	4773	5281	5788	6307	6849	7427
	Amps (A)		6.91	7.51	8.15	8.84	9.55	10.3	11.1	11.8
50	Refrig. Capacity (Watt)			6317	8384	10753	13482	16626	20244	24391
	Power Input (W)			4339	4998	5626	6236	6840	7450	8077
	Amps (A)			7.69	8.47	9.29	10.1	11	11.9	12.9
60	Refrig. Capacity (Watt)				6444	8462	10763	13404	16441	19932
	Power Input (W)				5055	5851	6610	7344	8067	8789
	Amps (A)				8.67	9.64	10.7	11.7	12.8	13.9

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

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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)	4772	6572	8706	11232	14207	17691	21742	26418	31778
	Power Input (W)	2809	3286	3726	4144	4554	4970	5407	5879	6402
	Amps (A)	5.63	6.16	6.69	7.23	7.77	8.32	8.89	9.48	10.1
40	Refrig. Capacity (Watt)		5285	7249	9531	12191	15287	18878	23021	27775
	Power Input (W)		3308	3882	4418	4930	5432	5938	6463	7022
	Amps (A)		6.16	6.85	7.55	8.25	8.96	9.69	10.4	11.2
50	Refrig. Capacity (Watt)		3878	5676	7721	10070	12783	15918	19533	23686
	Power Input (W)		3120	3865	4555	5205	5828	6440	7054	7686
	Amps (A)		5.99	6.85	7.72	8.59	9.48	10.4	11.3	12.2
60	Refrig. Capacity (Watt)			4062	5873	7917	10252	12935	16027	19585
	Power Input (W)			3632	4512	5336	6116	6869	7608	8348
	Amps (A)			6.68	7.74	8.79	9.86	10.9	12	13.2

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50HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	6548	8471	10706	13298	16295	19741	23685	28171
	Power Input (W)	3924	4442	4928	5399	5869	6354	6870	7433
	Amps (A)	7.31	7.84	8.42	9.03	9.68	10.4	11.1	11.9
50	Refrig. Capacity (Watt)	5403	7153	9160	11471	14134	17193	20696	24688
	Power Input (W)	3986	4639	5247	5824	6386	6949	7527	8137
	Amps (A)	7.59	8.22	8.9	9.62	10.4	11.2	12	13
60	Refrig. Capacity (Watt)		5821	7608	9645	11979	14657	17726	21230
	Power Input (W)		4730	5486	6196	6877	7544	8212	8897
	Amps (A)		8.63	9.4	10.2	11.1	12	13	14



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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)	7258	9498	12070	15034	18452	22387	26900	32052	37906
	Power Input (W)	4092	4705	5303	5910	6552	7253	8040	8936	9967
	Amps (A)	6.5	7.22	7.97	8.75	9.56	10.4	11.3	12.2	13.2
40	Refrig. Capacity (Watt)		7827	10204	12886	15936	19415	23385	27907	33045
	Power Input (W)		4840	5567	6271	6979	7714	8503	9369	10339
	Amps (A)		7.35	8.23	9.14	10.1	11.1	12.1	13.1	14.2
50	Refrig. Capacity (Watt)			8126	10479	13112	16088	19468	23313	27686
	Power Input (W)			5666	6533	7371	8206	9062	9964	10938
	Amps (A)			8.4	9.44	10.5	11.6	12.8	14	15.2
60	Refrig. Capacity (Watt)				7884	10054	12479	15221	18342	21904
	Power Input (W)				6576	7609	8608	9596	10599	11642
	Amps (A)				9.65	10.9	12.1	13.4	14.7	16.1

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60HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	7739	10013	12607	15580	18990	22898	27360	32438	38189
	Power Input (W)	4335	4964	5575	6193	6843	7549	8335	9227	10250
	Amps (A)	6.89	7.62	8.38	9.17	9.99	10.8	11.7	12.6	13.6
40	Refrig. Capacity (Watt)	6091	8245	10625	13290	16299	19712	23586	27981	32957
	Power Input (W)	4341	5130	5869	6581	7293	8028	8810	9666	10618
	Amps (A)	6.94	7.79	8.68	9.59	10.5	11.5	12.5	13.5	14.6
50	Refrig. Capacity (Watt)		6315	8435	10747	13308	16180	19419	23086	27239
	Power Input (W)		5073	6004	6876	7714	8542	9386	10268	11215
	Amps (A)		7.89	8.9	9.94	11	12.1	13.2	14.4	15.6
60	Refrig. Capacity (Watt)			6126	8037	10105	12388	14947	17838	21123
	Power Input (W)			5864	6960	7989	8975	9943	10918	11923
	Amps (A)			9.05	10.2	11.4	12.6	13.9	15.2	16.5



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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)	6393	8579	11102	14029	17427	21364	25906	31122	37078
	Power Input (W)	3816	4378	4939	5518	6135	6811	7564	8416	9385
	Amps (A)	6.06	6.72	7.42	8.17	8.96	9.78	10.6	11.5	12.4
40	Refrig. Capacity (Watt)		7104	9457	12140	15220	18763	22838	27512	32852
	Power Input (W)		4545	5223	5889	6564	7267	8017	8836	9743
	Amps (A)		6.9	7.72	8.58	9.48	10.4	11.4	12.4	13.4
50	Refrig. Capacity (Watt)			7651	10059	12790	15910	19487	23588	28281
	Power Input (W)			5352	6184	6995	7803	8630	9495	10418
	Amps (A)			7.94	8.94	9.98	11.1	12.2	13.3	14.5
60	Refrig. Capacity (Watt)				7899	10250	12917	15966	19464	23480
	Power Input (W)				6244	7269	8262	9243	10233	11251
	Amps (A)				9.17	10.4	11.6	12.9	14.2	15.6

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60HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	6393	8579	11102	14029	17427	21364	25906	31122	37078
	Power Input (W)	3816	4378	4939	5518	6135	6811	7564	8416	9385
	Amps (A)	6.06	6.72	7.42	8.17	8.96	9.78	10.6	11.5	12.4
40	Refrig. Capacity (Watt)		7104	9457	12140	15220	18763	22838	27512	32852
	Power Input (W)		4545	5223	5889	6564	7267	8017	8836	9743
	Amps (A)		6.9	7.72	8.58	9.48	10.4	11.4	12.4	13.4
50	Refrig. Capacity (Watt)			7651	10059	12790	15910	19487	23588	28281
	Power Input (W)			5352	6184	6995	7803	8630	9495	10418
	Amps (A)			7.94	8.94	9.98	11.1	12.2	13.3	14.5
60	Refrig. Capacity (Watt)				7899	10250	12917	15966	19464	23480
	Power Input (W)				6244	7269	8262	9243	10233	11251
	Amps (A)				9.17	10.4	11.6	12.9	14.2	15.6

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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)	5645	7741	10167	12991	16283	20111	24543	29648	35494
	Power Input (W)	3407	3999	4566	5130	5714	6338	7027	7801	8684
	Amps (A)	5.42	6.14	6.86	7.6	8.34	9.1	9.87	10.7	11.5
40	Refrig. Capacity (Watt)		6334	8624	11242	14257	17737	21751	26367	31654
	Power Input (W)		4054	4767	5451	6128	6820	7550	8340	9211
	Amps (A)		6.16	7.05	7.95	8.85	9.78	10.7	11.7	12.7
50	Refrig. Capacity (Watt)		4744	6875	9262	11976	15085	18656	22760	27463
	Power Input (W)		3847	4769	5636	6469	7291	8125	8992	9914
	Amps (A)		6	7.07	8.15	9.23	10.3	11.5	12.6	13.8
60	Refrig. Capacity (Watt)			5067	7200	9589	12302	15408	18975	23071
	Power Input (W)			4466	5578	6630	7645	8644	9651	10687
	Amps (A)			6.92	8.19	9.47	10.8	12.1	13.4	14.8

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60HZ R-22

Condensing	Evaporating (°C)	-20	-15	-10	-5	0	5	10	15
40	Refrig. Capacity (Watt)	7847	10078	12628	15551	18905	22745	27127	32107
	Power Input (W)	4809	5454	6081	6711	7370	8080	8865	9749
	Amps (A)	7.31	8.07	8.86	9.69	10.6	11.5	12.4	13.4
50	Refrig. Capacity (Watt)	6602	8662	10990	13644	16678	20149	24113	28626
	Power Input (W)	4911	5723	6491	7238	7989	8767	9595	10497
	Amps (A)	7.62	8.48	9.39	10.3	11.3	12.4	13.4	14.6
60	Refrig. Capacity (Watt)		7235	9321	11684	14378	17460	20985	25009
	Power Input (W)		5819	6782	7699	8595	9493	10417	11390
	Amps (A)		8.95	9.95	11	12.1	13.3	14.5	15.7