



tecumseh

AG2516P

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

Compressor

AG2516P-TZ1A

LBP

R-404A / 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	3037 / 3824	10357 / 13041	76.7 dBA
R-404A	50HZ / 60HZ	3172 / 3873	10815 / 13206	
R-448A	50HZ / 60HZ	2920 / 3672	9957 / 12522	
R-449A	50HZ / 60HZ	2916 / 3667	9942 / 12504	
R-454C	50HZ / 60HZ	2379 / 2745	8112 / 9359	
R-455A	50HZ / 60HZ	2533 / 2923	8638 / 9966	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap -10°F / T°Return gas temp. 40°F / T°Subcooling 0°F



*Non-contractual picture

Dimensions

Weight	45.8 kg (101 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)	112.5
Horse Power	4
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -10°C (-40°F to 14°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	1760

Electrical

Motor Type	3PH
Main Winding (Ohm)	3.67
Current RLA 50Hz (A)	4.9
Current RLA 60Hz (A)	4.4
Current LRA (A)	47
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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400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4831	7812	11623	16396	22260	29345
	Power Input	(W)	1312	1688	2083	2501	2944	3418
	Amps	(A)	3	3.37	3.84	4.38	4.97	5.59
105	Refrig. Capacity	(Btu/h)	3344	5943	9241	13370	18456	24625
	Power Input	(W)	1209	1627	2064	2524	3012	3530
	Amps	(A)	2.89	3.3	3.82	4.42	5.08	5.76
120	Refrig. Capacity	(Btu/h)		4159	6909	10357	14629	19846
	Power Input	(W)		1521	2000	2503	3034	3597
	Amps	(A)		3.18	3.75	4.41	5.12	5.87
140	Refrig. Capacity	(Btu/h)			4078	6566	9697	13588
	Power Input	(W)			1840	2399	2987	3608
	Amps	(A)			3.51	4.24	5.03	5.85

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	6121	9878	14436	19899	26370	33952
	Power Input	(W)	1483	1929	2383	2856	3359	3903
	Amps	(A)	2.65	3.13	3.63	4.18	4.78	5.45
105	Refrig. Capacity	(Btu/h)	4097	7494	11590	16486	22285	29086
	Power Input	(W)	1277	1801	2328	2868	3432	4032
	Amps	(A)	2.42	2.98	3.57	4.19	4.86	5.61
120	Refrig. Capacity	(Btu/h)		5168	8756	13041	18122	24095
	Power Input	(W)		1572	2184	2804	3443	4111
	Amps	(A)		2.73	3.4	4.11	4.88	5.7
140	Refrig. Capacity	(Btu/h)			5014	8412	12461	17250
	Power Input	(W)			1819	2566	3324	4105
	Amps	(A)			2.98	3.84	4.74	5.7



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

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	5273	8433	12423	17349	23311	30408
	Power Input	(W)	1410	1816	2236	2674	3132	3611
	Amps	(A)	3.23	3.62	4.12	4.69	5.29	5.9
105	Refrig. Capacity	(Btu/h)	3676	6408	9829	14042	19145	25235
	Power Input	(W)	1319	1762	2223	2703	3205	3731
	Amps	(A)	3.14	3.57	4.11	4.74	5.4	6.08
120	Refrig. Capacity	(Btu/h)		4489	7328	10815	15047	20116
	Power Input	(W)		1664	2166	2689	3236	3810
	Amps	(A)		3.48	4.06	4.74	5.46	6.22
140	Refrig. Capacity	(Btu/h)			4260	6760	9810	13496
	Power Input	(W)			2012	2595	3204	3843
	Amps	(A)			3.84	4.58	5.39	6.23

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60HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	6529	10360	14978	20441	26807	34130
	Power Input	(W)	1739	2256	2779	3317	3881	4481
	Amps	(A)	3.1	3.66	4.23	4.85	5.52	6.26
105	Refrig. Capacity	(Btu/h)	4378	7832	11965	16832	22489	28985
	Power Input	(W)	1511	2118	2724	3339	3972	4634
	Amps	(A)	2.87	3.51	4.17	4.88	5.63	6.44
120	Refrig. Capacity	(Btu/h)		5381	8982	13206	18106	23729
	Power Input	(W)		1865	2570	3276	3994	4734
	Amps	(A)		3.23	4	4.81	5.66	6.57
140	Refrig. Capacity	(Btu/h)			5136	8426	12238	16614
	Power Input	(W)			2163	3016	3871	4740
	Amps	(A)			3.55	4.51	5.51	6.58



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

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3931	6772	10530	15339	21329	28630
	Power Input	(W)	1203	1572	1956	2359	2786	3239
	Amps	(A)	2.75	3.14	3.6	4.14	4.71	5.29
105	Refrig. Capacity	(Btu/h)		5169	8414	12587	17818	24235
	Power Input	(W)		1531	1953	2393	2855	3343
	Amps	(A)		3.1	3.62	4.19	4.81	5.45
120	Refrig. Capacity	(Btu/h)		3671	6410	9957	14437	19979
	Power Input	(W)		1443	1908	2390	2893	3421
	Amps	(A)		3.02	3.58	4.21	4.89	5.58
140	Refrig. Capacity	(Btu/h)			4066	6791	10287	14674
	Power Input	(W)			1763	2309	2876	3466
	Amps	(A)			3.37	4.08	4.84	5.62

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	5016	8571	13079	18617	25263	33094
	Power Input	(W)	1366	1797	2236	2692	3176	3699
	Amps	(A)	2.44	2.91	3.41	3.94	4.52	5.16
105	Refrig. Capacity	(Btu/h)		6508	10550	15541	21556	28670
	Power Input	(W)		1694	2202	2719	3254	3820
	Amps	(A)		2.8	3.37	3.97	4.61	5.31
120	Refrig. Capacity	(Btu/h)		4526	8091	12522	17893	24277
	Power Input	(W)		1488	2084	2679	3284	3910
	Amps	(A)		2.58	3.25	3.93	4.65	5.42
140	Refrig. Capacity	(Btu/h)			5057	8722	13214	18602
	Power Input	(W)			1743	2471	3197	3932
	Amps	(A)			2.86	3.69	4.55	5.46

* 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~ 50Hz / 440V 3~ 60 Hz

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3927	6765	10520	15323	21306	28599
	Power Input	(W)	1203	1572	1956	2359	2786	3239
	Amps	(A)	2.75	3.14	3.6	4.14	4.71	5.29
105	Refrig. Capacity	(Btu/h)	2719	5163	8404	12572	17796	24204
	Power Input	(W)	1124	1531	1953	2393	2855	3343
	Amps	(A)	2.68	3.1	3.62	4.19	4.81	5.45
120	Refrig. Capacity	(Btu/h)		3665	6401	9942	14416	19948
	Power Input	(W)		1443	1908	2390	2893	3421
	Amps	(A)		3.02	3.58	4.21	4.89	5.58
140	Refrig. Capacity	(Btu/h)			4059	6778	10266	14644
	Power Input	(W)			1763	2309	2876	3466
	Amps	(A)			3.37	4.08	4.84	5.62

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	5011	8562	13065	18597	25236	33058
	Power Input	(W)	1366	1797	2236	2692	3176	3699
	Amps	(A)	2.44	2.91	3.41	3.94	4.52	5.16
105	Refrig. Capacity	(Btu/h)	3333	6501	10538	15522	21529	28634
	Power Input	(W)	1184	1694	2202	2719	3254	3820
	Amps	(A)	2.25	2.8	3.37	3.97	4.61	5.31
120	Refrig. Capacity	(Btu/h)		4520	8080	12504	17867	24241
	Power Input	(W)		1488	2084	2679	3284	3910
	Amps	(A)		2.58	3.25	3.93	4.65	5.42
140	Refrig. Capacity	(Btu/h)			5048	8705	13188	18564
	Power Input	(W)			1743	2471	3197	3932
	Amps	(A)			2.86	3.69	4.55	5.46

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Subcooling : 0 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	2881	5712	9156	13301	18232	24038
	Power Input	(W)	1031	1411	1778	2140	2505	2880
	Amps	(A)	2.46	2.84	3.28	3.76	4.28	4.84
105	Refrig. Capacity	(Btu/h)	1239	3823	6935	10659	15082	20289
	Power Input	(W)	862	1299	1720	2133	2546	2967
	Amps	(A)	2.29	2.72	3.21	3.74	4.32	4.93
120	Refrig. Capacity	(Btu/h)		2045	4816	8112	12019	16619
	Power Input	(W)		1123	1602	2071	2537	3007
	Amps	(A)		2.53	3.07	3.65	4.28	4.94
140	Refrig. Capacity	(Btu/h)			2258	4970	8176	11954
	Power Input	(W)			1333	1883	2426	2969
	Amps	(A)			2.76	3.41	4.11	4.84

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60HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3682	6774	10435	14770	19885	25887
	Power Input	(W)	1247	1666	2071	2472	2881	3310
	Amps	(A)	2.97	3.36	3.82	4.34	4.92	5.56
105	Refrig. Capacity	(Btu/h)	1777	4692	8081	12051	16706	22151
	Power Input	(W)	1062	1551	2020	2480	2943	3421
	Amps	(A)	2.81	3.25	3.77	4.35	4.99	5.69
120	Refrig. Capacity	(Btu/h)		2664	5768	9359	13541	18415
	Power Input	(W)		1358	1900	2428	2954	3489
	Amps	(A)		3.06	3.64	4.28	4.98	5.74
140	Refrig. Capacity	(Btu/h)			2869	5933	9461	13551
	Power Input	(W)			1607	2239	2861	3486
	Amps	(A)			3.33	4.06	4.84	5.69



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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-455A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3069	6075	9769	14264	19672	26103
	Power Input	(W)	1078	1474	1861	2248	2647	3067
	Amps	(A)	2.57	2.97	3.43	3.95	4.52	5.16
105	Refrig. Capacity	(Btu/h)	1336	4060	7369	11375	16188	21918
	Power Input	(W)	908	1364	1807	2247	2694	3159
	Amps	(A)	2.41	2.86	3.37	3.94	4.57	5.25
120	Refrig. Capacity	(Btu/h)		2189	5117	8638	12862	17895
	Power Input	(W)		1184	1688	2186	2687	3202
	Amps	(A)		2.67	3.23	3.85	4.53	5.27
140	Refrig. Capacity	(Btu/h)			2432	5315	8759	12871
	Power Input	(W)			1408	1991	2573	3164
	Amps	(A)			2.92	3.61	4.36	5.16

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60HZ R-455A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3922	7205	11133	15839	21455	28111
	Power Input	(W)	1304	1741	2167	2596	3044	3525
	Amps	(A)	3.11	3.51	3.99	4.56	5.2	5.93
105	Refrig. Capacity	(Btu/h)	1914	4982	8587	12860	17931	23929
	Power Input	(W)	1118	1629	2122	2612	3114	3642
	Amps	(A)	2.96	3.42	3.96	4.58	5.28	6.06
120	Refrig. Capacity	(Btu/h)		2849	6129	9966	14491	19829
	Power Input	(W)		1432	2002	2563	3129	3716
	Amps	(A)		3.23	3.83	4.51	5.27	6.11
140	Refrig. Capacity	(Btu/h)			3091	6344	10135	14590
	Power Input	(W)			1697	2367	3035	3714
	Amps	(A)			3.52	4.29	5.14	6.06