



tecumseh

AG2522P

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

Compressor

AG2522P-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	3925 / 5030	13385 / 17154	78.6 dBA
R-404A	50HZ / 60HZ	4099 / 5196	13978 / 17718	
R-448A	50HZ / 60HZ	3774 / 4830	12868 / 16471	
R-449A	50HZ / 60HZ	3768 / 4823	12849 / 16448	
R-454C	50HZ / 60HZ	3344 / 3987	11403 / 13597	
R-455A	50HZ / 60HZ	3561 / 4246	12142 / 14479	

(*) 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	47.4 kg (104 lb)
Length	319 mm (12.6 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)	135
Horse Power	5-1/2
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)	2.32
Current RLA 50Hz (A)	6.2
Current RLA 60Hz (A)	6.8
Current LRA (A)	61
Overload	Internal
- Time Check	2s - 10s / 36 A
- Open Temp / Close Temp	115 °C / 61 °C

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

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)	6829	10325	14793	20412	27357	35803
	Power Input	(W)	1725	2160	2626	3131	3684	4292
	Amps	(A)	4.05	4.58	5.19	5.88	6.66	7.52
105	Refrig. Capacity	(Btu/h)	5044	8117	11996	16856	22869	30207
	Power Input	(W)	1611	2096	2609	3160	3757	4409
	Amps	(A)	3.9	4.52	5.22	6	6.86	7.81
120	Refrig. Capacity	(Btu/h)		6008	9291	13385	18461	24684
	Power Input	(W)		1987	2552	3152	3797	4495
	Amps	(A)		4.38	5.17	6.04	6.98	8
140	Refrig. Capacity	(Btu/h)			5944	9008	12822	17546
	Power Input	(W)			2407	3078	3792	4557
	Amps	(A)			4.98	5.96	7.01	8.13

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	8686	13185	18528	24877	32391	41227
	Power Input	(W)	2209	2792	3396	4078	4892	5895
	Amps	(A)	3.9	4.58	5.33	6.16	7.08	8.08
105	Refrig. Capacity	(Btu/h)	6276	10458	15370	21171	28016	36061
	Power Input	(W)	2014	2706	3382	4096	4904	5861
	Amps	(A)	3.69	4.5	5.39	6.35	7.4	8.53
120	Refrig. Capacity	(Btu/h)		7562	11972	17154	23260	30439
	Power Input	(W)		2498	3294	4089	4940	5902
	Amps	(A)		4.23	5.25	6.35	7.52	8.79
140	Refrig. Capacity	(Btu/h)			7241	11484	16486	22388
	Power Input	(W)			2961	3943	4929	5973
	Amps	(A)			4.77	6.04	7.4	8.84



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

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Conditions DEW

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Subcooling : 0 °F

50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7457	11146	15811	21597	28647	37100
	Power Input	(W)	1853	2323	2819	3349	3918	4534
	Amps	(A)	4.36	4.93	5.57	6.29	7.08	7.94
105	Refrig. Capacity	(Btu/h)	5538	8753	12761	17705	23724	30955
	Power Input	(W)	1758	2271	2811	3384	3998	4659
	Amps	(A)	4.25	4.9	5.63	6.43	7.3	8.25
120	Refrig. Capacity	(Btu/h)		6481	9854	13978	18990	25020
	Power Input	(W)		2174	2763	3386	4049	4761
	Amps	(A)		4.79	5.6	6.49	7.44	8.48
140	Refrig. Capacity	(Btu/h)			6212	9273	12971	17428
	Power Input	(W)			2632	3329	4067	4853
	Amps	(A)			5.45	6.44	7.51	8.66

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60HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	9442	14101	19604	26061	33579	42263
	Power Input	(W)	2563	3229	3918	4686	5592	6695
	Amps	(A)	4.52	5.3	6.15	7.08	8.09	9.18
105	Refrig. Capacity	(Btu/h)	6829	11149	16185	22044	28831	36645
	Power Input	(W)	2360	3148	3915	4717	5614	6664
	Amps	(A)	4.32	5.24	6.24	7.31	8.47	9.7
120	Refrig. Capacity	(Btu/h)		8035	12530	17718	23699	30568
	Power Input	(W)		2933	3833	4726	5670	6723
	Amps	(A)		4.97	6.11	7.33	8.63	10
140	Refrig. Capacity	(Btu/h)			7556	11727	16509	21988
	Power Input	(W)			3484	4585	5679	6823
	Amps	(A)			5.62	7.03	8.52	10.1



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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)	5560	8952	13403	19095	26211	34931
	Power Input	(W)	1581	2011	2466	2955	3486	4068
	Amps	(A)	3.72	4.27	4.87	5.55	6.3	7.13
105	Refrig. Capacity	(Btu/h)		7061	10922	15867	22075	29726
	Power Input	(W)		1973	2469	2996	3561	4174
	Amps	(A)		4.25	4.94	5.69	6.5	7.39
120	Refrig. Capacity	(Btu/h)		5300	8621	12868	18219	24850
	Power Input	(W)		1885	2434	3010	3620	4274
	Amps	(A)		4.16	4.93	5.77	6.66	7.61
140	Refrig. Capacity	(Btu/h)			5926	9319	13602	18949
	Power Input	(W)			2306	2963	3650	4377
	Amps	(A)			4.77	5.73	6.74	7.81

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7116	11445	16787	23271	31028	40183
	Power Input	(W)	2034	2601	3186	3843	4625	5587
	Amps	(A)	3.59	4.26	5	5.81	6.7	7.66
105	Refrig. Capacity	(Btu/h)		9084	13991	19952	27094	35543
	Power Input	(W)		2546	3200	3882	4648	5551
	Amps	(A)		4.23	5.1	6.02	7.02	8.08
120	Refrig. Capacity	(Btu/h)		6627	11067	16471	22966	30673
	Power Input	(W)		2365	3143	3908	4713	5612
	Amps	(A)		4.01	5.01	6.06	7.18	8.36
140	Refrig. Capacity	(Btu/h)			7295	11905	17481	24142
	Power Input	(W)			2837	3797	4741	5722
	Amps	(A)			4.58	5.82	7.11	8.46

* 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)	5554	8943	13389	19075	26183	34893
	Power Input	(W)	1581	2011	2466	2955	3486	4068
	Amps	(A)	3.72	4.27	4.87	5.55	6.3	7.13
105	Refrig. Capacity	(Btu/h)	4098	7053	10909	15847	22048	29688
	Power Input	(W)	1498	1973	2469	2996	3561	4174
	Amps	(A)	3.62	4.25	4.94	5.69	6.5	7.39
120	Refrig. Capacity	(Btu/h)		5293	8609	12849	18192	24812
	Power Input	(W)		1885	2434	3010	3620	4274
	Amps	(A)		4.16	4.93	5.77	6.66	7.61
140	Refrig. Capacity	(Btu/h)			5915	9301	13575	18910
	Power Input	(W)			2306	2963	3650	4377
	Amps	(A)			4.77	5.73	6.74	7.81

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7109	11433	16769	23247	30994	40139
	Power Input	(W)	2034	2601	3186	3843	4625	5587
	Amps	(A)	3.59	4.26	5	5.81	6.7	7.66
105	Refrig. Capacity	(Btu/h)	5097	9073	13974	19928	27061	35498
	Power Input	(W)	1868	2546	3200	3882	4648	5551
	Amps	(A)	3.42	4.23	5.1	6.02	7.02	8.08
120	Refrig. Capacity	(Btu/h)		6618	11051	16448	22932	30627
	Power Input	(W)		2365	3143	3908	4713	5612
	Amps	(A)		4.01	5.01	6.06	7.18	8.36
140	Refrig. Capacity	(Btu/h)			7281	11882	17447	24093
	Power Input	(W)			2837	3797	4741	5722
	Amps	(A)			4.58	5.82	7.11	8.46

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Subcooling : 0 °F

50HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4933	8096	12002	16761	22479	29264
	Power Input	(W)	1397	1813	2244	2682	3117	3540
	Amps	(A)	3.29	3.75	4.24	4.78	5.35	5.95
105	Refrig. Capacity	(Btu/h)	3344	6268	9841	14169	19359	25515
	Power Input	(W)	1269	1737	2230	2741	3259	3775
	Amps	(A)	3.11	3.66	4.25	4.88	5.55	6.25
120	Refrig. Capacity	(Btu/h)		4374	7559	11403	16011	21486
	Power Input	(W)		1596	2147	2724	3320	3924
	Amps	(A)		3.46	4.15	4.88	5.64	6.44
140	Refrig. Capacity	(Btu/h)			4508	7626	11376	15859
	Power Input	(W)			1917	2576	3266	3978
	Amps	(A)			3.84	4.7	5.59	6.51

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60HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	6114	9665	14033	19323	25640	33088
	Power Input	(W)	1696	2176	2678	3191	3706	4215
	Amps	(A)	3.26	3.78	4.38	5.03	5.75	6.52
105	Refrig. Capacity	(Btu/h)	4573	7828	11771	16504	22131	28753
	Power Input	(W)	1591	2126	2690	3275	3873	4473
	Amps	(A)	3.03	3.62	4.28	5.01	5.8	6.65
120	Refrig. Capacity	(Btu/h)		5933	9435	13597	18520	24305
	Power Input	(W)		2023	2644	3294	3966	4650
	Amps	(A)		3.43	4.16	4.96	5.82	6.74
140	Refrig. Capacity	(Btu/h)			6309	9688	13652	18298
	Power Input	(W)			2486	3213	3973	4758
	Amps	(A)			3.97	4.86	5.81	6.82



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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)	5258	8611	12804	17974	24254	31779
	Power Input	(W)	1461	1894	2349	2818	3294	3771
	Amps	(A)	3.44	3.91	4.44	5.02	5.65	6.34
105	Refrig. Capacity	(Btu/h)	3592	6659	10457	15119	20777	27565
	Power Input	(W)	1336	1823	2342	2886	3448	4020
	Amps	(A)	3.27	3.84	4.47	5.14	5.87	6.66
120	Refrig. Capacity	(Btu/h)		4679	8034	12142	17133	23137
	Power Input	(W)		1683	2262	2875	3517	4179
	Amps	(A)		3.65	4.37	5.15	5.98	6.86
140	Refrig. Capacity	(Btu/h)			4858	8156	12186	17074
	Power Input	(W)			2024	2723	3464	4239
	Amps	(A)			4.06	4.97	5.92	6.94

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60HZ R-455A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	6518	10278	14968	20720	27665	35934
	Power Input	(W)	1773	2274	2802	3352	3916	4489
	Amps	(A)	3.41	3.95	4.58	5.29	6.07	6.94
105	Refrig. Capacity	(Btu/h)	4911	8319	12508	17608	23750	31062
	Power Input	(W)	1676	2232	2825	3449	4097	4762
	Amps	(A)	3.19	3.8	4.5	5.28	6.14	7.08
120	Refrig. Capacity	(Btu/h)		6347	10032	14479	19816	26169
	Power Input	(W)		2133	2785	3477	4201	4953
	Amps	(A)		3.62	4.39	5.24	6.17	7.18
140	Refrig. Capacity	(Btu/h)			6794	10365	14627	19700
	Power Input	(W)			2626	3397	4214	5070
	Amps	(A)			4.19	5.13	6.16	7.27