



tecumseh

AG2525P

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

Compressor

AG2525P-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	4317 / 5364	14720 / 18293	83.9 dBA
R-404A	50HZ / 60HZ	4508 / 5596	15371 / 19082	
R-448A	50HZ / 60HZ	4150 / 5152	14152 / 17569	
R-449A	50HZ / 60HZ	4144 / 5145	14131 / 17544	
R-454C	50HZ / 60HZ	3554 / 4478	12120 / 15271	
R-455A	50HZ / 60HZ	3822 / 4408	13033 / 15030	

(*) 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	48.2 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
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)	6.7
Current RLA 60Hz (A)	7.2
Current LRA (A)	61
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

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)	7556	11406	16155	21944	28910	37193
	Power Input	(W)	1923	2425	2951	3504	4087	4704
	Amps	(A)	4.12	4.66	5.27	5.97	6.76	7.64
105	Refrig. Capacity	(Btu/h)	5584	9027	13233	18340	24486	31803
	Power Input	(W)	1809	2370	2958	3574	4224	4909
	Amps	(A)	3.96	4.59	5.31	6.1	6.97	7.93
120	Refrig. Capacity	(Btu/h)		6735	10346	14720	19992	26290
	Power Input	(W)		2266	2913	3591	4305	5056
	Amps	(A)		4.45	5.26	6.14	7.09	8.13
140	Refrig. Capacity	(Btu/h)			6744	10060	14084	18938
	Power Input	(W)			2775	3532	4328	5164
	Amps	(A)			5.06	6.05	7.12	8.26

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	9454	14049	19499	25958	33581	42519
	Power Input	(W)	2410	3043	3683	4345	5049	5810
	Amps	(A)	4.07	4.82	5.63	6.47	7.37	8.32
105	Refrig. Capacity	(Btu/h)	7121	11407	16405	22269	29149	37193
	Power Input	(W)	2253	2990	3727	4481	5270	6110
	Amps	(A)	3.84	4.74	5.67	6.66	7.69	8.78
120	Refrig. Capacity	(Btu/h)		8605	13088	18293	24366	31451
	Power Input	(W)		2816	3665	4525	5414	6348
	Amps	(A)		4.5	5.57	6.69	7.86	9.09
140	Refrig. Capacity	(Btu/h)			8383	12607	17501	23200
	Power Input	(W)			3382	4407	5452	6534
	Amps	(A)			5.22	6.52	7.88	9.28



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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)	8252	12315	17267	23217	30273	38541
	Power Input	(W)	2067	2608	3168	3748	4348	4970
	Amps	(A)	4.43	5.01	5.66	6.39	7.19	8.07
105	Refrig. Capacity	(Btu/h)	6129	9735	14078	19265	25402	32591
	Power Input	(W)	1974	2568	3186	3828	4495	5188
	Amps	(A)	4.31	4.98	5.72	6.53	7.42	8.38
120	Refrig. Capacity	(Btu/h)		7265	10972	15371	20564	26649
	Power Input	(W)		2479	3154	3857	4591	5355
	Amps	(A)		4.87	5.69	6.59	7.56	8.61
140	Refrig. Capacity	(Btu/h)			7050	10357	14247	18811
	Power Input	(W)			3034	3820	4641	5499
	Amps	(A)			5.53	6.55	7.63	8.8

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60HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	10379	15177	20838	27464	35160	44023
	Power Input	(W)	2752	3466	4181	4913	5679	6495
	Amps	(A)	4.64	5.49	6.39	7.32	8.29	9.3
105	Refrig. Capacity	(Btu/h)	7826	12284	17448	23418	30295	38174
	Power Input	(W)	2596	3424	4246	5078	5936	6837
	Amps	(A)	4.42	5.42	6.46	7.54	8.66	9.82
120	Refrig. Capacity	(Btu/h)		9236	13835	19082	25074	31902
	Power Input	(W)		3254	4199	5147	6114	7116
	Amps	(A)		5.2	6.39	7.61	8.88	10.2
140	Refrig. Capacity	(Btu/h)			8829	13003	17704	23016
	Power Input	(W)			3916	5044	6181	7344
	Amps	(A)			6.04	7.47	8.93	10.4



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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)	6149	9889	14637	20529	27702	36288
	Power Input	(W)	1763	2258	2771	3307	3868	4458
	Amps	(A)	3.78	4.33	4.95	5.64	6.4	7.24
105	Refrig. Capacity	(Btu/h)		7851	12049	17267	23638	31296
	Power Input	(W)		2231	2799	3389	4004	4648
	Amps	(A)		4.32	5.02	5.78	6.61	7.51
120	Refrig. Capacity	(Btu/h)		5944	9600	14152	19730	26466
	Power Input	(W)		2150	2779	3429	4104	4808
	Amps	(A)		4.22	5.01	5.86	6.76	7.73
140	Refrig. Capacity	(Btu/h)			6727	10401	14934	20450
	Power Input	(W)			2659	3399	4165	4959
	Amps	(A)			4.85	5.82	6.85	7.93

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7736	12188	17664	24285	32173	41447
	Power Input	(W)	2219	2836	3456	4096	4774	5506
	Amps	(A)	3.74	4.5	5.28	6.1	6.97	7.88
105	Refrig. Capacity	(Btu/h)		9908	14936	20991	28192	36657
	Power Input	(W)		2812	3526	4248	4997	5788
	Amps	(A)		4.45	5.37	6.31	7.29	8.31
120	Refrig. Capacity	(Btu/h)		7554	12107	17569	24057	31685
	Power Input	(W)		2667	3496	4323	5165	6038
	Amps	(A)		4.26	5.32	6.4	7.5	8.64
140	Refrig. Capacity	(Btu/h)			8431	13059	18551	25017
	Power Input	(W)			3243	4243	5243	6258
	Amps	(A)			5	6.28	7.57	8.89

* 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)	6142	9879	14622	20508	27672	36248
	Power Input	(W)	1763	2258	2771	3307	3868	4458
	Amps	(A)	3.78	4.33	4.95	5.64	6.4	7.24
105	Refrig. Capacity	(Btu/h)	4532	7842	12035	17246	23609	31256
	Power Input	(W)	1682	2231	2799	3389	4004	4648
	Amps	(A)	3.68	4.32	5.02	5.78	6.61	7.51
120	Refrig. Capacity	(Btu/h)		5936	9587	14131	19701	26426
	Power Input	(W)		2150	2779	3429	4104	4808
	Amps	(A)		4.22	5.01	5.86	6.76	7.73
140	Refrig. Capacity	(Btu/h)			6715	10381	14904	20409
	Power Input	(W)			2659	3399	4165	4959
	Amps	(A)			4.85	5.82	6.85	7.93

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7728	12176	17646	24260	32139	41402
	Power Input	(W)	2219	2836	3456	4096	4774	5506
	Amps	(A)	3.74	4.5	5.28	6.1	6.97	7.88
105	Refrig. Capacity	(Btu/h)	5779	9896	14918	20965	28157	36610
	Power Input	(W)	2090	2812	3526	4248	4997	5788
	Amps	(A)	3.56	4.45	5.37	6.31	7.29	8.31
120	Refrig. Capacity	(Btu/h)		7543	12090	17544	24021	31636
	Power Input	(W)		2667	3496	4323	5165	6038
	Amps	(A)		4.26	5.32	6.4	7.5	8.64
140	Refrig. Capacity	(Btu/h)			8415	13034	18514	24966
	Power Input	(W)			3243	4243	5243	6258
	Amps	(A)			5	6.28	7.57	8.89

* 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

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

50HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	5299	8572	12747	17969	24385	32137
	Power Input	(W)	1449	1880	2325	2784	3256	3741
	Amps	(A)	3.55	3.98	4.48	5.05	5.68	6.38
105	Refrig. Capacity	(Btu/h)	3789	6719	10423	15043	20725	27610
	Power Input	(W)	1349	1825	2320	2835	3369	3921
	Amps	(A)	3.43	3.94	4.51	5.15	5.85	6.63
120	Refrig. Capacity	(Btu/h)		4915	8124	12120	17046	23040
	Power Input	(W)		1719	2263	2833	3428	4048
	Amps	(A)		3.82	4.46	5.17	5.95	6.79
140	Refrig. Capacity	(Btu/h)			5221	8351	12234	17007
	Power Input	(W)			2100	2742	3418	4125
	Amps	(A)			4.27	5.07	5.94	6.88

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60HZ R-454C

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7194	11096	15897	21733	28735	37036
	Power Input	(W)	1889	2398	2902	3412	3937	4489
	Amps	(A)	3.46	4.01	4.6	5.21	5.86	6.53
105	Refrig. Capacity	(Btu/h)	5203	8828	13250	18602	25013	32614
	Power Input	(W)	1728	2333	2932	3536	4154	4799
	Amps	(A)	3.25	3.94	4.66	5.41	6.19	7
120	Refrig. Capacity	(Btu/h)		6448	10448	15271	21048	27905
	Power Input	(W)		2150	2856	3567	4292	5042
	Amps	(A)		3.71	4.56	5.45	6.36	7.31
140	Refrig. Capacity	(Btu/h)			6625	10677	15539	21334
	Power Input	(W)			2549	3423	4310	5222
	Amps	(A)			4.17	5.24	6.33	7.46



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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)	5647	9394	14000	19605	26348	34367
	Power Input	(W)	1538	2049	2558	3059	3543	4003
	Amps	(A)	3.65	4.14	4.69	5.31	6	6.75
105	Refrig. Capacity	(Btu/h)	3696	7101	11239	16248	22267	29431
	Power Input	(W)	1366	1930	2506	3084	3657	4217
	Amps	(A)	3.45	4.05	4.72	5.45	6.25	7.12
120	Refrig. Capacity	(Btu/h)		4946	8617	13033	18329	24640
	Power Input	(W)		1767	2407	3061	3722	4382
	Amps	(A)		3.82	4.6	5.45	6.36	7.34
140	Refrig. Capacity	(Btu/h)			5411	9038	13374	18549
	Power Input	(W)			2206	2961	3738	4530
	Amps	(A)			4.23	5.22	6.28	7.41

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60HZ R-455A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	7246	11150	15943	21760	28740	37017
	Power Input	(W)	1861	2420	2979	3532	4075	4600
	Amps	(A)	4.41	4.89	5.46	6.13	6.9	7.76
105	Refrig. Capacity	(Btu/h)	5165	8746	13099	18358	24660	32138
	Power Input	(W)	1681	2306	2942	3584	4226	4862
	Amps	(A)	4.24	4.84	5.54	6.34	7.23	8.21
120	Refrig. Capacity	(Btu/h)		6442	10341	15030	20641	27306
	Power Input	(W)		2138	2855	3589	4334	5084
	Amps	(A)		4.63	5.46	6.39	7.41	8.51
140	Refrig. Capacity	(Btu/h)			6889	10795	15464	21022
	Power Input	(W)			2659	3521	4409	5318
	Amps	(A)			5.09	6.21	7.41	8.7