



tecumseh

AG4546P

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

Compressor

AG4546P-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	5211 / 6422	17768 / 21897	82.9 dBA
R-404A	50HZ / 60HZ	5256 / 6477	17923 / 22086	
R-448A	50HZ / 60HZ	5196 / 6404	17717 / 21839	
R-449A	50HZ / 60HZ	5187 / 6394	17689 / 21804	
R-454C	50HZ / 60HZ	4024 / 4889	13724 / 16671	
R-455A	50HZ / 60HZ	4325 / 5254	14747 / 17915	

(*) 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	42.4 kg (93 lb)
Length	319 mm (12.6 in)
Width	238 mm (9.4 in)
Height	397 mm (15.6 in)
Ø Suction Tube	7/8 in (22.2mm)
Ø Discharge Tube	5/8 in (15.9mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	90.2
Horse Power	4
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)	4.59
Current RLA 50Hz (A)	7.2
Current RLA 60Hz (A)	7.9
Current LRA (A)	43
Overload	Internal
- Time Check	2s - 10s / 34 A
- Open Temp / Close Temp	120 °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.



tecumseh

AG4546P

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

Performances are given at rating conditions ARI 520-90
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)	7731	11862	17157	23843	32163	42377	54765	69622
	Power Input (W)	1662	2047	2397	2719	3019	3304	3581	3855
	Amps (A)	3.63	4.12	4.59	5.04	5.48	5.9	6.3	6.69
105	Refrig. Capacity (Btu/h)	5321	8930	13518	19307	26538	35474	46402	59638
	Power Input (W)	1524	1995	2426	2821	3187	3530	3858	4176
	Amps (A)	3.45	4.04	4.61	5.16	5.69	6.21	6.72	7.21
120	Refrig. Capacity (Btu/h)			10035	14889	20990	28602	38021	49583
	Power Input (W)			2371	2854	3301	3718	4111	4488
	Amps (A)			4.53	5.18	5.81	6.43	7.04	7.63
140	Refrig. Capacity (Btu/h)				9370	13901	19675	27004	36253
	Power Input (W)				2748	3326	3864	4369	4847
	Amps (A)				5.04	5.81	6.56	7.31	8.04

© 2025 Tecumseh Products Company

60HZ R-452A

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity (Btu/h)	9388	14761	21357	29414	39192	50965	65030	81700
	Power Input (W)	2030	2552	3042	3499	3924	4315	4673	4996
	Amps (A)	3.99	4.53	5.04	5.54	6.02	6.49	6.93	7.36
105	Refrig. Capacity (Btu/h)	5963	10874	16782	23915	32525	42887	55301	70099
	Power Input (W)	1812	2424	3005	3555	4074	4561	5015	5436
	Amps (A)	3.8	4.44	5.07	5.68	6.26	6.84	7.39	7.93
120	Refrig. Capacity (Btu/h)			12172	18357	25779	34709	45451	58354
	Power Input (W)			2871	3518	4135	4722	5277	5800
	Amps (A)			4.98	5.7	6.39	7.08	7.74	8.4
140	Refrig. Capacity (Btu/h)				11035	16824	23801	32272	42609
	Power Input (W)				3313	4067	4793	5490	6156
	Amps (A)				5.54	6.39	7.22	8.04	8.84



tecumseh

AG4546P

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

Performances are given at rating conditions ARI 520-90
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)	8167	12380	17746	24485	32837	43060	55436	70268
	Power Input	(W)	1765	2162	2521	2849	3151	3434	3705	3970
	Amps	(A)	3.85	4.35	4.82	5.28	5.71	6.13	6.52	6.89
105	Refrig. Capacity	(Btu/h)	5619	9286	13911	19707	26909	35778	46606	59717
	Power Input	(W)	1630	2117	2558	2959	3327	3669	3990	4296
	Amps	(A)	3.69	4.28	4.86	5.41	5.95	6.46	6.95	7.42
120	Refrig. Capacity	(Btu/h)		6408	10260	15080	21098	28575	37810	49152
	Power Input	(W)		1973	2511	3001	3449	3863	4249	4613
	Amps	(A)		4.12	4.79	5.44	6.08	6.69	7.28	7.84
140	Refrig. Capacity	(Btu/h)			5883	9352	13737	19297	26343	35262
	Power Input	(W)			2275	2907	3486	4020	4515	4977
	Amps	(A)			4.54	5.33	6.09	6.83	7.55	8.25

© 2025 Tecumseh Products Company

60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9920	15404	22088	30206	40013	51786	65825	82459
	Power Input	(W)	2155	2696	3200	3666	4095	4485	4835	5146
	Amps	(A)	4.24	4.78	5.31	5.81	6.29	6.74	7.17	7.58
105	Refrig. Capacity	(Btu/h)	6322	11314	17269	24408	32978	43255	55544	70192
	Power Input	(W)	1938	2571	3169	3730	4254	4739	5186	5593
	Amps	(A)	4.06	4.71	5.35	5.95	6.54	7.1	7.64	8.16
120	Refrig. Capacity	(Btu/h)		7249	12448	18589	25910	34677	45201	57847
	Power Input	(W)		2345	3040	3699	4322	4907	5453	5961
	Amps	(A)		4.53	5.27	5.99	6.68	7.35	8	8.63
140	Refrig. Capacity	(Btu/h)			6256	11012	16623	23345	31489	41444
	Power Input	(W)			2707	3503	4263	4987	5673	6320
	Amps	(A)			5	5.86	6.7	7.51	8.31	9.08



tecumseh

AG4546P

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

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

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7100	11138	16317	22865	31023	41043	53191	67746
	Power Input	(W)	1557	1908	2235	2541	2830	3105	3369	3626
	Amps	(A)	3.39	3.84	4.28	4.71	5.13	5.54	5.93	6.29
105	Refrig. Capacity	(Btu/h)		8488	13027	18768	25951	34831	45681	58793
	Power Input	(W)		1875	2277	2650	3000	3329	3641	3939
	Amps	(A)		3.8	4.32	4.85	5.36	5.86	6.34	6.8
120	Refrig. Capacity	(Btu/h)			9879	14797	20986	28706	38234	49877
	Power Input	(W)			2238	2699	3130	3533	3912	4271
	Amps	(A)			4.27	4.9	5.51	6.11	6.7	7.26
140	Refrig. Capacity	(Btu/h)				9913	14752	20892	28621	38264
	Power Input	(W)				2613	3181	3713	4212	4682
	Amps	(A)				4.79	5.55	6.31	7.05	7.77

© 2025 Tecumseh Products Company

60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8615	13859	20311	28210	37805	49364	63164	79494
	Power Input	(W)	1901	2379	2837	3271	3679	4055	4396	4699
	Amps	(A)	3.73	4.22	4.7	5.18	5.65	6.09	6.52	6.92
105	Refrig. Capacity	(Btu/h)		10324	16174	23253	31811	42114	54444	69103
	Power Input	(W)		2278	2820	3340	3835	4301	4733	5128
	Amps	(A)		4.18	4.76	5.33	5.9	6.45	6.98	7.48
120	Refrig. Capacity	(Btu/h)			11978	18247	25778	34834	45703	58699
	Power Input	(W)			2711	3328	3921	4486	5020	5519
	Amps	(A)			4.7	5.39	6.06	6.72	7.37	7.99
140	Refrig. Capacity	(Btu/h)				11686	17855	25260	34191	44978
	Power Input	(W)				3149	3891	4607	5293	5947
	Amps	(A)				5.27	6.11	6.94	7.75	8.54

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



tecumseh

AG4546P

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

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

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7083	11115	16289	22835	30994	41021	53185	67765
	Power Input	(W)	1557	1908	2235	2541	2830	3105	3369	3626
	Amps	(A)	3.39	3.84	4.28	4.71	5.13	5.54	5.93	6.29
105	Refrig. Capacity	(Btu/h)		8467	13001	18739	25922	34809	45675	58813
	Power Input	(W)		1875	2277	2650	3000	3329	3641	3939
	Amps	(A)		3.8	4.32	4.85	5.36	5.86	6.34	6.8
120	Refrig. Capacity	(Btu/h)			9855	14769	20959	28684	38227	49898
	Power Input	(W)			2238	2699	3130	3533	3912	4271
	Amps	(A)			4.27	4.9	5.51	6.11	6.7	7.26
140	Refrig. Capacity	(Btu/h)				9888	14726	20871	28614	38286
	Power Input	(W)				2613	3181	3713	4212	4682
	Amps	(A)				4.79	5.55	6.31	7.05	7.77

© 2025 Tecumseh Products Company

60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8593	13830	20277	28172	37770	49338	63156	79517
	Power Input	(W)	1901	2379	2837	3271	3679	4055	4396	4699
	Amps	(A)	3.73	4.22	4.7	5.18	5.65	6.09	6.52	6.92
105	Refrig. Capacity	(Btu/h)		10299	16141	23217	31777	42088	54436	69127
	Power Input	(W)		2278	2820	3340	3835	4301	4733	5128
	Amps	(A)		4.18	4.76	5.33	5.9	6.45	6.98	7.48
120	Refrig. Capacity	(Btu/h)			11949	18213	25744	34808	45695	58723
	Power Input	(W)			2711	3328	3921	4486	5020	5519
	Amps	(A)			4.7	5.39	6.06	6.72	7.37	7.99
140	Refrig. Capacity	(Btu/h)				11657	17824	25234	34183	45004
	Power Input	(W)				3149	3891	4607	5293	5947
	Amps	(A)				5.27	6.11	6.94	7.75	8.54

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



tecumseh

AG4546P

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

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

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)	4913	8699	13457	19394	26731	35699	46546	59525
	Power Input	(W)	1228	1553	1869	2163	2424	2639	2797	2886
	Amps	(A)	3.12	3.51	3.86	4.18	4.46	4.7	4.91	5.07
105	Refrig. Capacity	(Btu/h)		5895	10004	15089	21367	29067	38437	49740
	Power Input	(W)		1455	1823	2181	2518	2821	3078	3278
	Amps	(A)		3.32	3.78	4.21	4.59	4.94	5.25	5.51
120	Refrig. Capacity	(Btu/h)			6877	11204	16518	23046	31035	40756
	Power Input	(W)			1720	2131	2532	2911	3256	3556
	Amps	(A)			3.62	4.15	4.64	5.09	5.5	5.87
140	Refrig. Capacity	(Btu/h)				6645	10816	15929	22226	29985
	Power Input	(W)				1976	2446	2909	3354	3769
	Amps	(A)				3.95	4.58	5.17	5.72	6.22

© 2025 Tecumseh Products Company

60HZ R-454C

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6473	10630	16065	23028	31790	42634	55859	71775
	Power Input	(W)	1521	1900	2293	2682	3048	3374	3641	3831
	Amps	(A)	2.91	3.32	3.74	4.18	4.62	5.08	5.54	6.02
105	Refrig. Capacity	(Btu/h)		7536	12186	18164	25737	35190	46828	60975
	Power Input	(W)		1798	2243	2701	3154	3584	3973	4303
	Amps	(A)		3.22	3.74	4.26	4.8	5.34	5.9	6.46
120	Refrig. Capacity	(Btu/h)			8601	13645	20079	28191	38290	50714
	Power Input	(W)			2122	2636	3164	3686	4185	4642
	Amps	(A)			3.58	4.2	4.83	5.46	6.1	6.75
140	Refrig. Capacity	(Btu/h)				8215	13208	19605	27724	37921
	Power Input	(W)				2430	3037	3663	4288	4896
	Amps	(A)				3.9	4.65	5.4	6.16	6.91



tecumseh

AG4546P

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

Performances are given at rating conditions ARI 520-90
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)	5160	9289	14448	20856	28745	38361	49959	63805
	Power Input	(W)	1273	1623	1960	2273	2548	2774	2939	3032
	Amps	(A)	3.24	3.67	4.05	4.39	4.69	4.94	5.16	5.32
105	Refrig. Capacity	(Btu/h)		6197	10690	16244	23090	31471	41649	53897
	Power Input	(W)		1506	1908	2298	2664	2994	3276	3498
	Amps	(A)		3.44	3.96	4.43	4.86	5.24	5.59	5.89
120	Refrig. Capacity	(Btu/h)			7242	11980	17819	25002	33792	44475
	Power Input	(W)			1784	2241	2688	3111	3499	3839
	Amps	(A)			3.76	4.36	4.92	5.44	5.91	6.34
140	Refrig. Capacity	(Btu/h)				6997	11551	17192	24187	32832
	Power Input	(W)				2051	2587	3118	3630	4113
	Amps	(A)				4.11	4.85	5.54	6.19	6.79

© 2025 Tecumseh Products Company

60HZ R-455A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6804	11348	17244	24762	34184	45811	59955	76941
	Power Input	(W)	1577	1986	2405	2818	3204	3547	3826	4024
	Amps	(A)	3.02	3.47	3.93	4.39	4.86	5.34	5.83	6.32
105	Refrig. Capacity	(Btu/h)		7932	13021	19553	27811	38099	50738	66069
	Power Input	(W)		1862	2347	2845	3336	3804	4228	4592
	Amps	(A)		3.34	3.91	4.49	5.08	5.67	6.28	6.89
120	Refrig. Capacity	(Btu/h)			9064	14591	21663	30586	41691	55336
	Power Input	(W)			2202	2773	3358	3938	4496	5012
	Amps	(A)			3.72	4.42	5.12	5.84	6.56	7.29
140	Refrig. Capacity	(Btu/h)				8641	14099	21163	30177	41524
	Power Input	(W)				2521	3212	3925	4642	5344
	Amps	(A)				4.05	4.92	5.79	6.66	7.55