



tecumseh

FH4532Z-XG1A

380-420V 3~ 50 Hz / 460V 3~ 60 Hz

Compressor

HBP

R-404A / R-448A / R-449A / R-452A

Voltage Code : XG

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	6260 / 7561	21348 / 25783	73 dBA
R-404A	50HZ / 60HZ	6248 / 7547	21307 / 25734	
R-448A	50HZ / 60HZ	6270 / 7572	21380 / 25821	
R-449A	50HZ / 60HZ	6270 / 7572	21380 / 25821	

(*) 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	29.1 kg (64 lb)
Length	274 mm (10.8 in)
Width	288 mm (11.3 in)
Height	354 mm (13.9 in)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	50.6
Horse Power	2-1/2 hp
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Oil Type	P.O.E. / 32 cSt@40°C
Oil Charge (cc)	1140

Electrical

Motor Type	3PH
Main Winding (Ohm)	5
Current RLA 50Hz (A)	3.89
Current RLA 60Hz (A)	4.2
Current MCC (A)	7.33
Current LRA (A)	30
Overload	Internal
- Time Check	3.0-10s / 25 A
- Open Temp / Close Temp	105 °C / 69 °C

Note : Tecumseh reserves the right to change information contained in this document without notification.



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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)	2200	2972	3879	4943	6185	7626	9288	11191	13359
	Power Input (W)	1114	1275	1418	1545	1656	1752	1834	1903	1959
	Amps (A)	2.2	2.38	2.55	2.69	2.82	2.94	3.04	3.14	3.24
40	Refrig. Capacity (Watt)		2345	3148	4074	5143	6376	7795	9421	11276
	Power Input (W)		1337	1525	1696	1849	1986	2107	2213	2305
	Amps (A)		2.43	2.67	2.88	3.08	3.25	3.4	3.55	3.68
50	Refrig. Capacity (Watt)			2411	3189	4076	5093	6260	7601	9135
	Power Input (W)			1598	1817	2017	2200	2365	2515	2648
	Amps (A)			2.74	3.04	3.3	3.54	3.76	3.96	4.15
60	Refrig. Capacity (Watt)				2314	3011	3803	4711	5757	6961
	Power Input (W)				1904	2157	2391	2606	2803	2983
	Amps (A)				3.13	3.48	3.81	4.1	4.37	4.62

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2371	3135	4039	5102	6344	7785	9443	11340	13494
	Power Input (W)	1194	1357	1502	1629	1736	1822	1886	1927	1944
	Amps (A)	2.35	2.54	2.7	2.84	2.96	3.05	3.13	3.18	3.21
40	Refrig. Capacity (Watt)	1815	2502	3291	4202	5256	6470	7867	9463	11281
	Power Input (W)	1225	1427	1613	1783	1935	2068	2180	2272	2341
	Amps (A)	2.34	2.59	2.82	3.03	3.22	3.38	3.52	3.64	3.74
50	Refrig. Capacity (Watt)		1861	2529	3282	4140	5122	6248	7539	9012
	Power Input (W)		1477	1703	1913	2108	2286	2445	2585	2704
	Amps (A)		2.62	2.92	3.2	3.45	3.68	3.89	4.07	4.24
60	Refrig. Capacity (Watt)			1783	2370	3025	3767	4617	5593	6716
	Power Input (W)			1782	2032	2268	2488	2692	2878	3046
	Amps (A)			3	3.34	3.66	3.96	4.24	4.49	4.71



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380-420V 3~ 50 Hz / 460V 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)	1958	2685	3556	4594	5822	7263	8942	10880	13102
	Power Input	(W)	1051	1197	1331	1452	1558	1645	1712	1757	1777
	Amps	(A)	2.07	2.24	2.39	2.53	2.65	2.76	2.84	2.9	2.94
40	Refrig. Capacity	(Watt)		2156	2929	3839	4908	6160	7618	9305	11245
	Power Input	(W)		1263	1435	1595	1742	1873	1985	2078	2148
	Amps	(A)		2.3	2.51	2.71	2.9	3.06	3.21	3.33	3.43
50	Refrig. Capacity	(Watt)			2295	3073	3979	5036	6270	7702	9356
	Power Input	(W)			1518	1720	1910	2087	2248	2391	2513
	Amps	(A)			2.61	2.88	3.13	3.36	3.58	3.77	3.94
60	Refrig. Capacity	(Watt)				2329	3068	3927	4932	6104	7468
	Power Input	(W)				1827	2064	2290	2501	2697	2874
	Amps	(A)				3.01	3.34	3.65	3.94	4.2	4.45

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50HZ R-449A*

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30	Refrig. Capacity	(Watt)	1958	2685	3556	4594	5822	7263	8942	10880	13102
	Power Input	(W)	1051	1197	1331	1452	1558	1645	1712	1757	1777
	Amps	(A)	2.07	2.24	2.39	2.53	2.65	2.76	2.84	2.9	2.94
40	Refrig. Capacity	(Watt)		2156	2929	3839	4908	6160	7618	9305	11245
	Power Input	(W)		1263	1435	1595	1742	1873	1985	2078	2148
	Amps	(A)		2.3	2.51	2.71	2.9	3.06	3.21	3.33	3.43
50	Refrig. Capacity	(Watt)			2295	3073	3979	5036	6270	7702	9356
	Power Input	(W)			1518	1720	1910	2087	2248	2391	2513
	Amps	(A)			2.61	2.88	3.13	3.36	3.58	3.77	3.94
60	Refrig. Capacity	(Watt)				2329	3068	3927	4932	6104	7468
	Power Input	(W)				1827	2064	2290	2501	2697	2874
	Amps	(A)				3.01	3.34	3.65	3.94	4.2	4.45

* 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. : 20 °C
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60HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2606	3578	4684	5950	7399	9058	10952	13105	15543
	Power Input (W)	1306	1520	1716	1890	2040	2165	2262	2329	2363
	Amps (A)	2.32	2.54	2.75	2.93	3.11	3.28	3.45	3.61	3.78
40	Refrig. Capacity (Watt)		2809	3824	4959	6240	7691	9338	11206	13320
	Power Input (W)		1567	1813	2041	2250	2437	2601	2738	2847
	Amps (A)		2.59	2.86	3.11	3.34	3.56	3.76	3.96	4.16
50	Refrig. Capacity (Watt)			2902	3882	4968	6186	7561	9118	10882
	Power Input (W)			1863	2138	2398	2641	2864	3065	3241
	Amps (A)			2.9	3.22	3.52	3.8	4.06	4.31	4.55
60	Refrig. Capacity (Watt)				2784	3650	4609	5685	6905	8294
	Power Input (W)				2187	2491	2782	3057	3314	3552
	Amps (A)				3.24	3.62	3.98	4.31	4.62	4.92

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60HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2809	3775	4878	6142	7590	9247	11135	13278	15701
	Power Input (W)	1400	1618	1817	1992	2137	2250	2326	2359	2347
	Amps (A)	2.49	2.71	2.91	3.09	3.26	3.41	3.54	3.65	3.74
40	Refrig. Capacity (Watt)	2093	2996	3996	5115	6377	7806	9424	11257	13327
	Power Input (W)	1415	1673	1918	2147	2354	2537	2690	2810	2891
	Amps (A)	2.49	2.77	3.02	3.27	3.5	3.71	3.9	4.07	4.22
50	Refrig. Capacity (Watt)		2173	3045	3995	5046	6222	7547	9044	10736
	Power Input (W)		1708	1984	2252	2507	2744	2960	3150	3310
	Amps (A)		2.78	3.09	3.39	3.68	3.95	4.2	4.43	4.65
60	Refrig. Capacity (Watt)			2096	2851	3667	4566	5572	6709	8001
	Power Input (W)			2041	2332	2619	2896	3159	3404	3627
	Amps (A)			3.11	3.47	3.81	4.14	4.45	4.74	5.02



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Conditions DEW

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Subcooling : 0 K

60HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2319	3233	4294	5529	6965	8628	10544	12741	15244
	Power Input (W)	1232	1427	1611	1776	1918	2032	2111	2151	2145
	Amps (A)	2.19	2.39	2.58	2.76	2.93	3.08	3.22	3.33	3.42
40	Refrig. Capacity (Watt)		2582	3558	4673	5956	7431	9127	11069	13283
	Power Input (W)		1481	1706	1920	2120	2298	2450	2570	2654
	Amps (A)		2.45	2.69	2.92	3.15	3.36	3.55	3.72	3.87
50	Refrig. Capacity (Watt)			2764	3741	4849	6118	7572	9239	11145
	Power Input (W)			1769	2024	2271	2505	2721	2913	3076
	Amps (A)			2.76	3.05	3.33	3.61	3.86	4.1	4.32
60	Refrig. Capacity (Watt)				2803	3718	4759	5951	7323	8900
	Power Input (W)				2097	2384	2665	2935	3190	3423
	Amps (A)				3.12	3.47	3.81	4.14	4.45	4.74

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30	Refrig. Capacity (Watt)	2319	3233	4294	5529	6965	8628	10544	12741	15244
	Power Input (W)	1232	1427	1611	1776	1918	2032	2111	2151	2145
	Amps (A)	2.19	2.39	2.58	2.76	2.93	3.08	3.22	3.33	3.42
40	Refrig. Capacity (Watt)		2582	3558	4673	5956	7431	9127	11069	13283
	Power Input (W)		1481	1706	1920	2120	2298	2450	2570	2654
	Amps (A)		2.45	2.69	2.92	3.15	3.36	3.55	3.72	3.87
50	Refrig. Capacity (Watt)			2764	3741	4849	6118	7572	9239	11145
	Power Input (W)			1769	2024	2271	2505	2721	2913	3076
	Amps (A)			2.76	3.05	3.33	3.61	3.86	4.1	4.32
60	Refrig. Capacity (Watt)				2803	3718	4759	5951	7323	8900
	Power Input (W)				2097	2384	2665	2935	3190	3423
	Amps (A)				3.12	3.47	3.81	4.14	4.45	4.74

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