



tecumseh

FH2511Z-XG1A

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

Compressor

LBP

R-452A / R-404A

Voltage Code : XG

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	2494 / 2757	8505 / 9400	74 dBA
R-404A	50HZ / 60HZ	2628 / 2904	8960 / 9903	
R-448A	50HZ / 60HZ	2401 / 2654	8187 / 9049	
R-449A	50HZ / 60HZ	2397 / 2650	8175 / 9036	

(*) 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	30.3 kg (67 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)	68
Horse Power	3-1/2
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -12.2°C (-40°F to 10°F)
Oil Type	P.O.E 32
Oil Charge (cc)	1140

Electrical

Motor Type	3PH
Main Winding (Ohm)	3.8
Current RLA 50Hz (A)	3.4
Current RLA 60Hz (A)	3.03
Current MCC (A)	8.3
Current LRA (A)	60
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. : 40 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4035	6364	9310	12956	17386	22682
	Power Input	(W)	1110	1414	1717	2014	2296	2557
	Amps	(A)	2.95	3.15	3.37	3.62	3.88	4.16
105	Refrig. Capacity	(Btu/h)	2798	4881	7503	10745	14689	19416
	Power Input	(W)	1023	1370	1725	2081	2431	2768
	Amps	(A)	2.84	3.11	3.4	3.7	4.03	4.37
120	Refrig. Capacity	(Btu/h)		3424	5694	8505	11936	16065
	Power Input	(W)		1274	1681	2097	2516	2930
	Amps	(A)		2.99	3.35	3.72	4.11	4.52
140	Refrig. Capacity	(Btu/h)			3359	5552	8253	11536
	Power Input	(W)			1533	2032	2543	3061
	Amps	(A)			3.15	3.63	4.11	4.62

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60HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4459	7034	10290	14320	19216	25070
	Power Input	(W)	1208	1538	1868	2191	2498	2782
	Amps	(A)	2.63	2.81	3.01	3.22	3.45	3.71
105	Refrig. Capacity	(Btu/h)	3092	5395	8293	11876	16235	21460
	Power Input	(W)	1113	1490	1877	2264	2645	3012
	Amps	(A)	2.53	2.77	3.03	3.3	3.59	3.9
120	Refrig. Capacity	(Btu/h)		3785	6294	9400	13192	17756
	Power Input	(W)		1386	1829	2282	2738	3188
	Amps	(A)		2.66	2.98	3.32	3.67	4.03
140	Refrig. Capacity	(Btu/h)			3713	6136	9122	12750
	Power Input	(W)			1668	2211	2768	3331
	Amps	(A)			2.81	3.23	3.67	4.12



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Subcooling : 0 °F

50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4557	6949	9946	13626	18065	23335
	Power Input	(W)	1220	1536	1849	2151	2437	2697
	Amps	(A)	3.24	3.43	3.63	3.86	4.11	4.39
105	Refrig. Capacity	(Btu/h)	3282	5409	8057	11300	15213	19866
	Power Input	(W)	1147	1508	1873	2237	2591	2929
	Amps	(A)	3.18	3.42	3.69	3.98	4.29	4.63
120	Refrig. Capacity	(Btu/h)		3907	6180	8960	12320	16328
	Power Input	(W)		1432	1851	2276	2699	3114
	Amps	(A)		3.36	3.68	4.04	4.41	4.81
140	Refrig. Capacity	(Btu/h)			3775	5896	8475	11573
	Power Input	(W)			1741	2248	2765	3284
	Amps	(A)			3.58	4.01	4.47	4.95

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60HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	5037	7680	10993	15061	19966	25792
	Power Input	(W)	1327	1671	2012	2341	2651	2935
	Amps	(A)	2.89	3.05	3.24	3.44	3.67	3.91
105	Refrig. Capacity	(Btu/h)	3627	5979	8905	12490	16814	21957
	Power Input	(W)	1249	1641	2039	2434	2820	3187
	Amps	(A)	2.84	3.05	3.29	3.55	3.83	4.12
120	Refrig. Capacity	(Btu/h)		4318	6830	9903	13617	18046
	Power Input	(W)		1558	2014	2476	2937	3388
	Amps	(A)		2.99	3.28	3.6	3.93	4.28
140	Refrig. Capacity	(Btu/h)			4172	6517	9367	12792
	Power Input	(W)			1895	2447	3009	3573
	Amps	(A)			3.19	3.58	3.99	4.41



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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)	3502	5703	8524	12062	16414	21676
	Power Input	(W)	1019	1309	1601	1888	2163	2418
	Amps	(A)	2.71	2.92	3.15	3.39	3.65	3.93
105	Refrig. Capacity	(Btu/h)		4387	6938	10140	14088	18876
	Power Input	(W)		1261	1603	1949	2290	2620
	Amps	(A)		2.86	3.16	3.47	3.8	4.14
120	Refrig. Capacity	(Btu/h)		3078	5341	8187	11711	16007
	Power Input	(W)		1164	1556	1961	2370	2776
	Amps	(A)		2.73	3.1	3.48	3.87	4.29
140	Refrig. Capacity	(Btu/h)			3280	5624	8554	12162
	Power Input	(W)			1409	1894	2394	2903
	Amps	(A)			2.9	3.38	3.87	4.38

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60HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3870	6303	9421	13332	18142	23958
	Power Input	(W)	1109	1424	1742	2055	2354	2631
	Amps	(A)	2.41	2.6	2.8	3.02	3.26	3.51
105	Refrig. Capacity	(Btu/h)		4849	7669	11207	15570	20863
	Power Input	(W)		1372	1744	2121	2492	2851
	Amps	(A)		2.55	2.81	3.09	3.38	3.69
120	Refrig. Capacity	(Btu/h)		3403	5903	9049	12944	17692
	Power Input	(W)		1266	1693	2134	2579	3021
	Amps	(A)		2.43	2.76	3.1	3.45	3.82
140	Refrig. Capacity	(Btu/h)			3625	6216	9455	13442
	Power Input	(W)			1533	2061	2605	3158
	Amps	(A)			2.58	3.01	3.45	3.9

* 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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50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3498	5697	8515	12050	16397	21652
	Power Input	(W)	1019	1309	1601	1888	2163	2418
	Amps	(A)	2.71	2.92	3.15	3.39	3.65	3.93
105	Refrig. Capacity	(Btu/h)	2388	4382	6930	10127	14070	18852
	Power Input	(W)	931	1261	1603	1949	2290	2620
	Amps	(A)	2.58	2.86	3.16	3.47	3.8	4.14
120	Refrig. Capacity	(Btu/h)		3074	5333	8175	11694	15983
	Power Input	(W)		1164	1556	1961	2370	2776
	Amps	(A)		2.73	3.1	3.48	3.87	4.29
140	Refrig. Capacity	(Btu/h)			3274	5613	8538	12137
	Power Input	(W)			1409	1894	2394	2903
	Amps	(A)			2.9	3.38	3.87	4.38

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60HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3866	6297	9412	13318	18123	23932
	Power Input	(W)	1109	1424	1742	2055	2354	2631
	Amps	(A)	2.41	2.6	2.8	3.02	3.26	3.51
105	Refrig. Capacity	(Btu/h)	2640	4843	7659	11194	15551	20836
	Power Input	(W)	1013	1372	1744	2121	2492	2851
	Amps	(A)	2.3	2.55	2.81	3.09	3.38	3.69
120	Refrig. Capacity	(Btu/h)		3398	5894	9036	12925	17665
	Power Input	(W)		1266	1693	2134	2579	3021
	Amps	(A)		2.43	2.76	3.1	3.45	3.82
140	Refrig. Capacity	(Btu/h)			3618	6204	9436	13415
	Power Input	(W)			1533	2061	2605	3158
	Amps	(A)			2.58	3.01	3.45	3.9

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