



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	1495 / 1652	5097 / 5634	74 dBA
R-404A	50HZ / 60HZ	1671 / 1846	5696 / 6296	
R-448A	50HZ / 60HZ	1309 / 1447	4463 / 4933	
R-449A	50HZ / 60HZ	1309 / 1447	4463 / 4933	

(*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



*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. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1360	2022	2843	3843	5041	6456	8109
	Power Input (W)	1125	1388	1650	1905	2149	2376	2581
	Amps (A)	2.97	3.13	3.31	3.51	3.73	3.96	4.21
40	Refrig. Capacity (Watt)	906	1495	2220	3102	4161	5414	6883
	Power Input (W)	1031	1339	1655	1973	2286	2591	2882
	Amps (A)	2.85	3.09	3.34	3.61	3.89	4.19	4.5
50	Refrig. Capacity (Watt)			1591	2344	3252	4333	5607
	Power Input (W)			1587	1967	2352	2736	3114
	Amps (A)			3.26	3.6	3.96	4.33	4.71
60	Refrig. Capacity (Watt)				1589	2336	3234	4302
	Power Input (W)				1881	2338	2802	3268
	Amps (A)				3.48	3.92	4.36	4.82

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50HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1533	2217	3060	4078	5291	6717	8373
	Power Input (W)	1231	1505	1775	2037	2284	2512	2714
	Amps (A)	3.25	3.4	3.57	3.75	3.96	4.18	4.42
40	Refrig. Capacity (Watt)	1065	1671	2410	3301	4363	5612	7068
	Power Input (W)	1154	1475	1801	2126	2444	2751	3041
	Amps (A)	3.19	3.4	3.63	3.88	4.16	4.44	4.75
50	Refrig. Capacity (Watt)		1132	1758	2512	3411	4475	5721
	Power Input (W)		1376	1758	2147	2537	2924	3301
	Amps (A)		3.31	3.61	3.93	4.27	4.62	5
60	Refrig. Capacity (Watt)			1128	1733	2461	3328	4353
	Power Input (W)			1642	2095	2558	3025	3490
	Amps (A)			3.5	3.88	4.29	4.71	5.15



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Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1160	1772	2540	3485	4630	5996	7605
	Power Input (W)	1035	1285	1537	1784	2021	2243	2442
	Amps (A)	2.73	2.9	3.09	3.29	3.5	3.73	3.98
40	Refrig. Capacity (Watt)		1309	1996	2843	3871	5102	6557
	Power Input (W)		1232	1536	1844	2150	2448	2733
	Amps (A)		2.84	3.1	3.37	3.66	3.96	4.27
50	Refrig. Capacity (Watt)			1443	2184	3087	4175	5470
	Power Input (W)			1465	1834	2209	2586	2957
	Amps (A)			3.01	3.35	3.72	4.09	4.47
60	Refrig. Capacity (Watt)				1532	2304	3242	4369
	Power Input (W)				1746	2193	2648	3107
	Amps (A)				3.23	3.67	4.12	4.59

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50HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1160	1772	2540	3485	4630	5996	7605
	Power Input (W)	1035	1285	1537	1784	2021	2243	2442
	Amps (A)	2.73	2.9	3.09	3.29	3.5	3.73	3.98
40	Refrig. Capacity (Watt)		1309	1996	2843	3871	5102	6557
	Power Input (W)		1232	1536	1844	2150	2448	2733
	Amps (A)		2.84	3.1	3.37	3.66	3.96	4.27
50	Refrig. Capacity (Watt)			1443	2184	3087	4175	5470
	Power Input (W)			1465	1834	2209	2586	2957
	Amps (A)			3.01	3.35	3.72	4.09	4.47
60	Refrig. Capacity (Watt)				1532	2304	3242	4369
	Power Input (W)				1746	2193	2648	3107
	Amps (A)				3.23	3.67	4.12	4.59

* 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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Return gas temp. : 20 °C
Subcooling : 0 K

60HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1503	2235	3142	4247	5571	7136	8963
	Power Input (W)	1224	1510	1795	2073	2338	2585	2809
	Amps (A)	2.65	2.79	2.95	3.13	3.32	3.53	3.75
40	Refrig. Capacity (Watt)	1002	1652	2454	3429	4599	5984	7608
	Power Input (W)	1121	1457	1801	2146	2488	2820	3136
	Amps (A)	2.54	2.75	2.98	3.21	3.47	3.73	4.01
50	Refrig. Capacity (Watt)			1758	2591	3594	4789	6198
	Power Input (W)			1727	2141	2560	2978	3389
	Amps (A)			2.9	3.21	3.53	3.86	4.2
60	Refrig. Capacity (Watt)				1757	2582	3574	4755
	Power Input (W)				2046	2544	3049	3556
	Amps (A)				3.1	3.49	3.89	4.3

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60HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1695	2451	3382	4508	5848	7424	9255
	Power Input (W)	1340	1638	1932	2216	2485	2733	2954
	Amps (A)	2.9	3.03	3.18	3.35	3.53	3.73	3.94
40	Refrig. Capacity (Watt)	1177	1846	2663	3649	4822	6203	7812
	Power Input (W)	1255	1605	1959	2313	2660	2994	3309
	Amps (A)	2.84	3.03	3.24	3.46	3.7	3.96	4.23
50	Refrig. Capacity (Watt)		1252	1943	2776	3770	4946	6323
	Power Input (W)		1498	1913	2336	2761	3182	3592
	Amps (A)		2.95	3.22	3.5	3.8	4.12	4.45
60	Refrig. Capacity (Watt)			1247	1916	2720	3678	4811
	Power Input (W)			1787	2280	2783	3291	3798
	Amps (A)			3.12	3.46	3.82	4.2	4.59



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60HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1282	1959	2807	3852	5117	6627	8406
	Power Input (W)	1126	1399	1673	1942	2200	2440	2658
	Amps (A)	2.43	2.59	2.75	2.93	3.12	3.33	3.55
40	Refrig. Capacity (Watt)		1447	2206	3142	4278	5639	7248
	Power Input (W)		1341	1672	2006	2339	2664	2974
	Amps (A)		2.53	2.76	3	3.26	3.53	3.8
50	Refrig. Capacity (Watt)			1595	2413	3412	4615	6046
	Power Input (W)			1594	1995	2404	2814	3218
	Amps (A)			2.68	2.99	3.31	3.64	3.99
60	Refrig. Capacity (Watt)				1693	2546	3583	4828
	Power Input (W)				1900	2386	2881	3380
	Amps (A)				2.88	3.27	3.68	4.09

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60HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1282	1959	2807	3852	5117	6627	8406
	Power Input (W)	1126	1399	1673	1942	2200	2440	2658
	Amps (A)	2.43	2.59	2.75	2.93	3.12	3.33	3.55
40	Refrig. Capacity (Watt)		1447	2206	3142	4278	5639	7248
	Power Input (W)		1341	1672	2006	2339	2664	2974
	Amps (A)		2.53	2.76	3	3.26	3.53	3.8
50	Refrig. Capacity (Watt)			1595	2413	3412	4615	6046
	Power Input (W)			1594	1995	2404	2814	3218
	Amps (A)			2.68	2.99	3.31	3.64	3.99
60	Refrig. Capacity (Watt)				1693	2546	3583	4828
	Power Input (W)				1900	2386	2881	3380
	Amps (A)				2.88	3.27	3.68	4.09

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