



tecumseh

FH4524Z-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	5139 / 6260	17523 / 21347	71 dBA
R-404A	50HZ / 60HZ	5129 / 6248	17489 / 21307	
R-448A	50HZ / 60HZ	5147 / 6269	17550 / 21379	
R-449A	50HZ / 60HZ	5147 / 6269	17550 / 21379	

(*) 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	29.2 kg (64 lb)
Length	238 mm (9.4 in)
Width	222 mm (8.7 in)
Height	354 mm (13.9 in)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	43.3
Horse Power	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)	7.05
Current RLA 50Hz (A)	3.59
Current RLA 60Hz (A)	3.61
Current MCC (A)	6.6
Current LRA (A)	26
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)	1704	2370	3162	4098	5198	6480	7962	9664	11605
	Power Input (W)	876	1056	1208	1334	1434	1509	1558	1584	1586
	Amps (A)	1.95	2.18	2.38	2.54	2.68	2.79	2.88	2.95	3.01
40	Refrig. Capacity (Watt)		1770	2459	3261	4193	5276	6527	7965	9610
	Power Input (W)		1026	1232	1411	1562	1687	1786	1860	1909
	Amps (A)		2.14	2.41	2.66	2.87	3.04	3.2	3.32	3.43
50	Refrig. Capacity (Watt)			1785	2456	3226	4114	5139	6318	7672
	Power Input (W)			1206	1440	1645	1823	1974	2098	2196
	Amps (A)			2.37	2.7	2.99	3.25	3.47	3.67	3.84
60	Refrig. Capacity (Watt)				1691	2303	3001	3804	4729	5796
	Power Input (W)				1420	1682	1915	2120	2297	2446
	Amps (A)				2.65	3.04	3.38	3.69	3.96	4.2

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1837	2500	3293	4231	5332	6614	8096	9793	11723
	Power Input (W)	938	1124	1280	1406	1502	1568	1602	1605	1575
	Amps (A)	2.09	2.32	2.52	2.68	2.81	2.9	2.96	2.99	2.98
40	Refrig. Capacity (Watt)	1301	1888	2570	3363	4285	5354	6587	8001	9615
	Power Input (W)	857	1094	1303	1484	1635	1757	1848	1909	1939
	Amps (A)	1.97	2.28	2.55	2.79	3	3.17	3.31	3.41	3.49
50	Refrig. Capacity (Watt)		1296	1873	2528	3277	4138	5129	6266	7569
	Power Input (W)		1026	1285	1516	1720	1894	2040	2156	2242
	Amps (A)		2.17	2.52	2.84	3.13	3.37	3.59	3.77	3.92
60	Refrig. Capacity (Watt)			1209	1731	2314	2973	3728	4595	5593
	Power Input (W)			1236	1516	1768	1993	2190	2359	2498
	Amps (A)			2.44	2.83	3.19	3.52	3.81	4.07	4.29



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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)	1518	2142	2899	3809	4893	6171	7665	9395	11382
	Power Input (W)	826	991	1134	1254	1348	1416	1454	1463	1439
	Amps (A)	1.84	2.05	2.23	2.39	2.52	2.62	2.69	2.73	2.73
40	Refrig. Capacity (Watt)		1628	2288	3072	4002	5097	6378	7867	9585
	Power Input (W)		969	1159	1328	1472	1591	1683	1746	1779
	Amps (A)		2.02	2.27	2.5	2.7	2.87	3.01	3.12	3.2
50	Refrig. Capacity (Watt)			1698	2366	3149	4069	5147	6403	7858
	Power Input (W)			1145	1363	1558	1729	1875	1994	2084
	Amps (A)			2.25	2.56	2.83	3.08	3.3	3.49	3.64
60	Refrig. Capacity (Watt)				1702	2347	3101	3983	5014	6216
	Power Input (W)				1363	1610	1834	2035	2210	2357
	Amps (A)				2.55	2.91	3.24	3.54	3.81	4.05

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1518	2142	2899	3809	4893	6171	7665	9395	11382
	Power Input (W)	826	991	1134	1254	1348	1416	1454	1463	1439
	Amps (A)	1.84	2.05	2.23	2.39	2.52	2.62	2.69	2.73	2.73
40	Refrig. Capacity (Watt)		1628	2288	3072	4002	5097	6378	7867	9585
	Power Input (W)		969	1159	1328	1472	1591	1683	1746	1779
	Amps (A)		2.02	2.27	2.5	2.7	2.87	3.01	3.12	3.2
50	Refrig. Capacity (Watt)			1698	2366	3149	4069	5147	6403	7858
	Power Input (W)			1145	1363	1558	1729	1875	1994	2084
	Amps (A)			2.25	2.56	2.83	3.08	3.3	3.49	3.64
60	Refrig. Capacity (Watt)				1702	2347	3101	3983	5014	6216
	Power Input (W)				1363	1610	1834	2035	2210	2357
	Amps (A)				2.55	2.91	3.24	3.54	3.81	4.05

* 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

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Subcooling : 0 K

60HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2000	2881	3884	5031	6343	7842	9550	11488	13678
	Power Input (W)	1065	1283	1469	1622	1743	1834	1895	1926	1928
	Amps (A)	1.95	2.19	2.39	2.56	2.7	2.81	2.9	2.97	3.03
40	Refrig. Capacity (Watt)		2085	2995	4013	5161	6461	7935	9604	11490
	Power Input (W)		1247	1498	1715	1899	2051	2172	2261	2321
	Amps (A)		2.14	2.43	2.67	2.88	3.06	3.21	3.34	3.45
50	Refrig. Capacity (Watt)			2098	2974	3945	5033	6260	7647	9215
	Power Input (W)			1466	1750	2000	2216	2399	2550	2669
	Amps (A)			2.39	2.72	3.01	3.27	3.49	3.69	3.86
60	Refrig. Capacity (Watt)				1967	2748	3611	4577	5669	6907
	Power Input (W)				1727	2045	2328	2577	2792	2974
	Amps (A)				2.67	3.06	3.41	3.71	3.99	4.24

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60HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2155	3039	4044	5194	6507	8005	9709	11639	13817
	Power Input (W)	1141	1366	1556	1709	1826	1906	1948	1951	1915
	Amps (A)	2.09	2.33	2.53	2.7	2.83	2.92	2.98	3.01	3.01
40	Refrig. Capacity (Watt)	1406	2225	3129	4139	5275	6558	8008	9647	11495
	Power Input (W)	1042	1330	1585	1804	1988	2136	2247	2321	2357
	Amps (A)	1.97	2.29	2.57	2.81	3.01	3.18	3.32	3.43	3.5
50	Refrig. Capacity (Watt)		1410	2202	3060	4007	5063	6248	7584	9092
	Power Input (W)		1247	1562	1843	2090	2303	2480	2621	2726
	Amps (A)		2.18	2.54	2.86	3.15	3.4	3.61	3.79	3.94
60	Refrig. Capacity (Watt)			1318	2014	2760	3578	4487	5508	6663
	Power Input (W)			1503	1843	2150	2423	2663	2867	3037
	Amps (A)			2.46	2.85	3.22	3.54	3.84	4.1	4.33



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Conditions DEW

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

60HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1780	2603	3561	4676	5971	7469	9194	11168	13415
	Power Input (W)	1004	1205	1379	1524	1639	1721	1768	1778	1750
	Amps (A)	1.84	2.06	2.25	2.41	2.54	2.64	2.7	2.74	2.75
40	Refrig. Capacity (Watt)		1917	2786	3782	4926	6243	7755	9486	11458
	Power Input (W)		1178	1409	1614	1790	1934	2046	2123	2163
	Amps (A)		2.03	2.28	2.51	2.71	2.88	3.02	3.14	3.21
50	Refrig. Capacity (Watt)			1997	2865	3851	4978	6269	7749	9438
	Power Input (W)			1392	1657	1894	2103	2280	2424	2533
	Amps (A)			2.27	2.57	2.85	3.1	3.32	3.51	3.67
60	Refrig. Capacity (Watt)				1981	2800	3729	4792	6011	7410
	Power Input (W)				1657	1957	2230	2474	2686	2866
	Amps (A)				2.57	2.93	3.26	3.57	3.84	4.08

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Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1780	2603	3561	4676	5971	7469	9194	11168	13415
	Power Input (W)	1004	1205	1379	1524	1639	1721	1768	1778	1750
	Amps (A)	1.84	2.06	2.25	2.41	2.54	2.64	2.7	2.74	2.75
40	Refrig. Capacity (Watt)		1917	2786	3782	4926	6243	7755	9486	11458
	Power Input (W)		1178	1409	1614	1790	1934	2046	2123	2163
	Amps (A)		2.03	2.28	2.51	2.71	2.88	3.02	3.14	3.21
50	Refrig. Capacity (Watt)			1997	2865	3851	4978	6269	7749	9438
	Power Input (W)			1392	1657	1894	2103	2280	2424	2533
	Amps (A)			2.27	2.57	2.85	3.1	3.32	3.51	3.67
60	Refrig. Capacity (Watt)				1981	2800	3729	4792	6011	7410
	Power Input (W)				1657	1957	2230	2474	2686	2866
	Amps (A)				2.57	2.93	3.26	3.57	3.84	4.08

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