



tecumseh

FH4532Z-XG1A

380-420V 3~ 50Hz / 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	3541 / 4318	12076 / 14725	73 dBA
R-404A	50HZ / 60HZ	3577 / 4361	12196 / 14870	
R-448A	50HZ / 60HZ	3536 / 4312	12059 / 14705	
R-449A	50HZ / 60HZ	3531 / 4306	12040 / 14682	

(*) 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	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
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Oil Type	P.O.E 32
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

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)	5643	8252	11459	15395	20198	26018	33017	41364
	Power Input	(W)	1081	1274	1445	1595	1725	1837	1931	2009
	Amps	(A)	2.14	2.38	2.58	2.75	2.91	3.05	3.17	3.29
105	Refrig. Capacity	(Btu/h)	4199	6563	9417	12885	17104	22224	28410	35841
	Power Input	(W)	1079	1317	1530	1721	1891	2041	2172	2284
	Amps	(A)	2.09	2.4	2.68	2.92	3.13	3.32	3.49	3.65
120	Refrig. Capacity	(Btu/h)			7385	10360	13968	18360	23702	30185
	Power Input	(W)			1591	1828	2041	2232	2404	2555
	Amps	(A)			2.74	3.05	3.33	3.59	3.81	4.02
140	Refrig. Capacity	(Btu/h)				7059	9812	13188	17358	22526
	Power Input	(W)				1933	2211	2464	2695	2905
	Amps	(A)				3.17	3.56	3.91	4.22	4.51

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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6607	9928	13873	18586	24225	30960	38972	48455
	Power Input	(W)	1257	1510	1742	1948	2126	2273	2385	2460
	Amps	(A)	2.27	2.54	2.78	3	3.2	3.4	3.59	3.78
105	Refrig. Capacity	(Btu/h)	4737	7832	11435	15687	20741	26767	33951	42495
	Power Input	(W)	1246	1540	1817	2072	2304	2509	2683	2825
	Amps	(A)	2.23	2.56	2.86	3.14	3.4	3.64	3.87	4.09
120	Refrig. Capacity	(Btu/h)			8907	12623	17016	22255	28527	36049
	Power Input	(W)			1859	2159	2439	2696	2927	3130
	Amps	(A)			2.9	3.25	3.57	3.86	4.14	4.4
140	Refrig. Capacity	(Btu/h)				8505	11899	15965	20896	26920
	Power Input	(W)				2222	2557	2875	3174	3449
	Amps	(A)				3.29	3.71	4.09	4.45	4.79



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Conditions DEW

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Superheat : 32 °F

50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6078	8647	11833	15761	20570	26408	33440	41840
	Power Input	(W)	1162	1356	1529	1680	1806	1907	1981	2026
	Amps	(A)	2.31	2.53	2.73	2.9	3.05	3.16	3.25	3.31
105	Refrig. Capacity	(Btu/h)	4628	6930	9731	13153	17331	22413	28567	35981
	Power Input	(W)	1178	1408	1618	1809	1977	2121	2240	2333
	Amps	(A)	2.28	2.57	2.83	3.06	3.27	3.45	3.6	3.72
120	Refrig. Capacity	(Btu/h)		5235	7628	10522	14045	18346	23596	29992
	Power Input	(W)		1447	1693	1922	2130	2316	2479	2617
	Amps	(A)		2.59	2.91	3.21	3.48	3.72	3.93	4.12
140	Refrig. Capacity	(Btu/h)			4918	7070	9685	12907	16909	21907
	Power Input	(W)			1782	2059	2318	2558	2777	2974
	Amps	(A)			3	3.38	3.73	4.06	4.35	4.62

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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7121	10403	14325	19029	24672	31423	39470	49012
	Power Input	(W)	1352	1609	1844	2051	2224	2358	2445	2482
	Amps	(A)	2.44	2.7	2.94	3.16	3.36	3.53	3.68	3.81
105	Refrig. Capacity	(Btu/h)	5243	8271	11815	16013	21016	26995	34138	42661
	Power Input	(W)	1357	1647	1922	2178	2408	2606	2767	2884
	Amps	(A)	2.43	2.74	3.03	3.3	3.56	3.79	4	4.18
120	Refrig. Capacity	(Btu/h)		6105	9199	12819	17109	22238	28400	35820
	Power Input	(W)		1673	1978	2271	2546	2797	3019	3205
	Amps	(A)		2.74	3.09	3.41	3.72	4.01	4.27	4.51
140	Refrig. Capacity	(Btu/h)			5781	8519	11747	15627	20356	26178
	Power Input	(W)			2041	2365	2681	2985	3270	3531
	Amps	(A)			3.11	3.51	3.89	4.25	4.58	4.9



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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)	5280	7776	10878	14719	19436	25175	32089	40339
	Power Input	(W)	1025	1197	1356	1499	1623	1725	1801	1849
	Amps	(A)	2.03	2.23	2.42	2.59	2.74	2.86	2.96	3.02
105	Refrig. Capacity	(Btu/h)		6329	9112	12528	16716	21821	28001	35421
	Power Input	(W)		1246	1440	1620	1783	1925	2045	2139
	Amps	(A)		2.27	2.52	2.74	2.95	3.13	3.29	3.41
120	Refrig. Capacity	(Btu/h)			7349	10329	13973	18430	23858	30431
	Power Input	(W)			1509	1728	1932	2117	2283	2424
	Amps	(A)			2.6	2.89	3.16	3.4	3.62	3.81
140	Refrig. Capacity	(Btu/h)				7496	10396	13965	18365	23780
	Power Input	(W)				1854	2115	2362	2590	2798
	Amps	(A)				3.04	3.41	3.74	4.06	4.34

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6178	9354	13169	17770	23312	29957	37878	47254
	Power Input	(W)	1192	1420	1635	1831	1999	2132	2224	2265
	Amps	(A)	2.15	2.38	2.61	2.82	3.02	3.2	3.35	3.48
105	Refrig. Capacity	(Btu/h)		7551	11065	15254	20272	26284	33463	41997
	Power Input	(W)		1458	1710	1950	2172	2366	2526	2645
	Amps	(A)		2.42	2.7	2.96	3.21	3.44	3.65	3.83
120	Refrig. Capacity	(Btu/h)			8866	12586	17023	22339	28714	36341
	Power Input	(W)			1763	2042	2309	2557	2779	2968
	Amps	(A)			2.75	3.07	3.37	3.66	3.93	4.18
140	Refrig. Capacity	(Btu/h)				9033	12605	16902	22106	28423
	Power Input	(W)				2129	2447	2756	3051	3322
	Amps	(A)				3.16	3.55	3.92	4.28	4.61

* 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)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5267	7759	10860	14699	19418	25161	32085	40351
	Power Input	(W)	1025	1197	1356	1499	1623	1725	1801	1849
	Amps	(A)	2.03	2.23	2.42	2.59	2.74	2.86	2.96	3.02
105	Refrig. Capacity	(Btu/h)		6314	9094	12509	16698	21808	27997	35433
	Power Input	(W)		1246	1440	1620	1783	1925	2045	2139
	Amps	(A)		2.27	2.52	2.74	2.95	3.13	3.29	3.41
120	Refrig. Capacity	(Btu/h)			7332	10310	13955	18416	23854	30443
	Power Input	(W)			1509	1728	1932	2117	2283	2424
	Amps	(A)			2.6	2.89	3.16	3.4	3.62	3.81
140	Refrig. Capacity	(Btu/h)				7477	10378	13951	18361	23793
	Power Input	(W)				1854	2115	2362	2590	2798
	Amps	(A)				3.04	3.41	3.74	4.06	4.34

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6163	9334	13146	17746	23290	29942	37874	47267
	Power Input	(W)	1192	1420	1635	1831	1999	2132	2224	2265
	Amps	(A)	2.15	2.38	2.61	2.82	3.02	3.2	3.35	3.48
105	Refrig. Capacity	(Btu/h)		7533	11043	15231	20250	26267	33458	42011
	Power Input	(W)		1458	1710	1950	2172	2366	2526	2645
	Amps	(A)		2.42	2.7	2.96	3.21	3.44	3.65	3.83
120	Refrig. Capacity	(Btu/h)			8845	12563	17001	22322	28709	36356
	Power Input	(W)			1763	2042	2309	2557	2779	2968
	Amps	(A)			2.75	3.07	3.37	3.66	3.93	4.18
140	Refrig. Capacity	(Btu/h)				9011	12583	16885	22101	28439
	Power Input	(W)				2129	2447	2756	3051	3322
	Amps	(A)				3.16	3.55	3.92	4.28	4.61

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