



tecumseh

FH4544Z-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	5227 / 6189	17825 / 21105	79 dBA
R-404A	50HZ / 60HZ	5279 / 6250	18002 / 21313	
R-448A	50HZ / 60HZ	5220 / 6180	17800 / 21075	
R-449A	50HZ / 60HZ	5212 / 6171	17772 / 21042	

(*) 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	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	-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)	4.3
Current RLA 50Hz (A)	6.38
Current RLA 60Hz (A)	6.11
Current MCC (A)	12
Current LRA (A)	42
Overload	Internal
- Time Check	3.0 - 10s / 34.0 A
- Open Temp / Close Temp	120 °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)	8390	12395	17104	22693	29351	37281	46703	57850
	Power Input	(W)	1660	1996	2288	2539	2754	2938	3097	3234
	Amps	(A)	3.7	4.07	4.39	4.67	4.93	5.17	5.39	5.62
105	Refrig. Capacity	(Btu/h)	5970	9706	14008	19043	24996	32069	40485	50490
	Power Input	(W)	1589	2003	2367	2688	2968	3214	3430	3620
	Amps	(A)	3.59	4.07	4.5	4.88	5.22	5.52	5.81	6.08
120	Refrig. Capacity	(Btu/h)			10902	15334	20532	26699	34058	42868
	Power Input	(W)			2403	2795	3144	3453	3729	3975
	Amps	(A)			4.54	5.03	5.46	5.86	6.22	6.55
140	Refrig. Capacity	(Btu/h)				10436	14550	19429	25301	32440
	Power Input	(W)				2877	3320	3719	4079	4405
	Amps	(A)				5.07	5.67	6.21	6.69	7.14

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60HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9934	14675	20251	26868	34751	44140	55296	68493
	Power Input	(W)	1958	2356	2699	2996	3250	3467	3654	3815
	Amps	(A)	3.57	3.92	4.24	4.51	4.76	4.99	5.21	5.42
105	Refrig. Capacity	(Btu/h)	7069	11492	16585	22547	29595	37969	47934	59779
	Power Input	(W)	1875	2363	2793	3171	3502	3792	4047	4271
	Amps	(A)	3.47	3.93	4.34	4.71	5.03	5.33	5.6	5.87
120	Refrig. Capacity	(Btu/h)			12908	18155	24310	31611	40324	50755
	Power Input	(W)			2835	3298	3709	4074	4400	4691
	Amps	(A)			4.38	4.85	5.27	5.65	6	6.32
140	Refrig. Capacity	(Btu/h)				12356	17227	23003	29955	38408
	Power Input	(W)				3395	3918	4388	4813	5197
	Amps	(A)				4.9	5.47	5.99	6.46	6.89



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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)	9040	12987	17661	23233	29892	37841	47302	58518
	Power Input	(W)	1786	2126	2422	2674	2883	3050	3176	3261
	Amps	(A)	3.98	4.33	4.64	4.92	5.16	5.37	5.53	5.66
105	Refrig. Capacity	(Btu/h)	6608	10252	14475	19439	25327	32342	40710	50687
	Power Input	(W)	1737	2142	2504	2824	3102	3340	3538	3697
	Amps	(A)	3.91	4.35	4.76	5.12	5.45	5.74	5.99	6.21
120	Refrig. Capacity	(Btu/h)		7543	11263	15573	20645	26679	33905	42594
	Power Input	(W)		2135	2557	2938	3280	3583	3846	4072
	Amps	(A)		4.33	4.83	5.28	5.7	6.07	6.41	6.71
140	Refrig. Capacity	(Btu/h)			7095	10451	14362	19017	24649	31550
	Power Input	(W)			2612	3066	3482	3860	4203	4509
	Amps	(A)			4.84	5.41	5.95	6.44	6.9	7.31

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60HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	10703	15376	20910	27508	35391	44802	56004	69283
	Power Input	(W)	2107	2508	2857	3155	3402	3599	3747	3847
	Amps	(A)	3.84	4.18	4.48	4.75	4.98	5.18	5.34	5.46
105	Refrig. Capacity	(Btu/h)	7824	12138	17138	23015	29987	38292	48199	60012
	Power Input	(W)	2050	2527	2954	3332	3661	3941	4175	4362
	Amps	(A)	3.78	4.2	4.59	4.95	5.26	5.54	5.79	5.99
120	Refrig. Capacity	(Btu/h)		8930	13335	18438	24443	31587	40143	50430
	Power Input	(W)		2519	3017	3467	3870	4227	4538	4805
	Amps	(A)		4.18	4.66	5.1	5.5	5.86	6.19	6.48
140	Refrig. Capacity	(Btu/h)			8400	12374	17004	22515	29183	37354
	Power Input	(W)			3082	3617	4108	4555	4959	5320
	Amps	(A)			4.67	5.22	5.74	6.22	6.66	7.06



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Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7847	11680	16238	21698	28244	36074	45393	56416
	Power Input	(W)	1574	1876	2147	2386	2591	2759	2888	2976
	Amps	(A)	3.5	3.82	4.12	4.39	4.64	4.85	5.03	5.17
105	Refrig. Capacity	(Btu/h)		9358	13555	18517	24430	31488	39903	49898
	Power Input	(W)		1896	2228	2529	2798	3032	3230	3390
	Amps	(A)		3.86	4.23	4.59	4.92	5.21	5.47	5.69
120	Refrig. Capacity	(Btu/h)			10849	15288	20540	26800	34282	43219
	Power Input	(W)			2279	2642	2975	3275	3542	3771
	Amps	(A)			4.31	4.75	5.17	5.55	5.9	6.22
140	Refrig. Capacity	(Btu/h)				11086	15416	20570	26765	34246
	Power Input	(W)				2760	3177	3564	3920	4243
	Amps	(A)				4.87	5.42	5.95	6.43	6.88

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60HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9290	13828	19226	25690	33441	42711	53744	66794
	Power Input	(W)	1857	2213	2534	2816	3057	3255	3407	3512
	Amps	(A)	3.38	3.69	3.98	4.24	4.48	4.69	4.86	4.99
105	Refrig. Capacity	(Btu/h)		11080	16048	21924	28924	37281	47244	59077
	Power Input	(W)		2237	2628	2984	3301	3578	3811	3999
	Amps	(A)		3.72	4.09	4.43	4.75	5.03	5.28	5.49
120	Refrig. Capacity	(Btu/h)			12845	18101	24318	31730	40589	51170
	Power Input	(W)			2689	3118	3510	3865	4179	4450
	Amps	(A)			4.16	4.58	4.99	5.36	5.7	6
140	Refrig. Capacity	(Btu/h)				13125	18252	24354	31689	40546
	Power Input	(W)				3257	3748	4206	4625	5006
	Amps	(A)				4.7	5.24	5.74	6.21	6.64

* 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)	7827	11655	16210	21669	28218	36055	45387	56432
	Power Input	(W)	1574	1876	2147	2386	2591	2759	2888	2976
	Amps	(A)	3.5	3.82	4.12	4.39	4.64	4.85	5.03	5.17
105	Refrig. Capacity	(Btu/h)		9335	13528	18489	24403	31469	39897	49915
	Power Input	(W)		1896	2228	2529	2798	3032	3230	3390
	Amps	(A)		3.86	4.23	4.59	4.92	5.21	5.47	5.69
120	Refrig. Capacity	(Btu/h)			10823	15260	20513	26780	34276	43237
	Power Input	(W)			2279	2642	2975	3275	3542	3771
	Amps	(A)			4.31	4.75	5.17	5.55	5.9	6.22
140	Refrig. Capacity	(Btu/h)				11058	15388	20549	26759	34265
	Power Input	(W)				2760	3177	3564	3920	4243
	Amps	(A)				4.87	5.42	5.95	6.43	6.88

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60HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	9267	13799	19193	25656	33410	42688	53737	66814
	Power Input	(W)	1857	2213	2534	2816	3057	3255	3407	3512
	Amps	(A)	3.38	3.69	3.98	4.24	4.48	4.69	4.86	4.99
105	Refrig. Capacity	(Btu/h)		11052	16016	21890	28893	37258	47237	59098
	Power Input	(W)		2237	2628	2984	3301	3578	3811	3999
	Amps	(A)		3.72	4.09	4.43	4.75	5.03	5.28	5.49
120	Refrig. Capacity	(Btu/h)			12814	18067	24287	31707	40582	51191
	Power Input	(W)			2689	3118	3510	3865	4179	4450
	Amps	(A)			4.16	4.58	4.99	5.36	5.7	6
140	Refrig. Capacity	(Btu/h)				13093	18219	24330	31681	40569
	Power Input	(W)				3257	3748	4206	4625	5006
	Amps	(A)				4.7	5.24	5.74	6.21	6.64

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