



tecumseh

FH4544Z-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	9050 / 10715	30860 / 36537	79 dBA
R-404A	50HZ / 60HZ	9032 / 10694	30801 / 36467	
R-448A	50HZ / 60HZ	9063 / 10731	30906 / 36592	
R-449A	50HZ / 60HZ	9063 / 10731	30906 / 36592	

(*) 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	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 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)	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

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)	3306	4474	5792	7291	9001	10953	13179	15708	18573
	Power Input (W)	1737	2016	2259	2470	2653	2811	2947	3066	3170
	Amps (A)	3.78	4.08	4.35	4.59	4.81	5.01	5.2	5.39	5.59
40	Refrig. Capacity (Watt)		3478	4685	6026	7531	9231	11157	13339	15810
	Power Input (W)		2042	2363	2649	2903	3128	3327	3505	3664
	Amps (A)		4.12	4.49	4.83	5.13	5.41	5.67	5.91	6.15
50	Refrig. Capacity (Watt)			3553	4721	6006	7439	9050	10870	12931
	Power Input (W)			2404	2768	3096	3391	3657	3897	4115
	Amps (A)			4.54	4.99	5.4	5.78	6.12	6.44	6.75
60	Refrig. Capacity (Watt)				3417	4467	5617	6898	8341	9977
	Power Input (W)				2830	3235	3604	3940	4246	4526
	Amps (A)				5.01	5.55	6.05	6.5	6.92	7.31

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3563	4720	6031	7526	9233	11181	13399	15917	18762
	Power Input (W)	1862	2145	2392	2604	2781	2923	3031	3105	3146
	Amps (A)	4.06	4.35	4.61	4.84	5.04	5.21	5.35	5.46	5.54
40	Refrig. Capacity (Watt)	2628	3710	4897	6216	7697	9368	11260	13400	15817
	Power Input (W)	1825	2179	2499	2785	3038	3257	3444	3598	3720
	Amps (A)	4.01	4.4	4.75	5.08	5.37	5.64	5.87	6.07	6.24
50	Refrig. Capacity (Watt)		2681	3729	4859	6100	7482	9032	10781	12757
	Power Input (W)		2178	2562	2915	3235	3523	3780	4006	4202
	Amps (A)		4.38	4.83	5.25	5.64	6	6.33	6.63	6.89
60	Refrig. Capacity (Watt)			2572	3499	4487	5565	6761	8105	9625
	Power Input (W)			2612	3022	3401	3751	4070	4360	4622
	Amps (A)			4.84	5.36	5.84	6.3	6.72	7.11	7.47



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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)	2943	4043	5310	6776	8473	10433	12688	15272	18216
	Power Input (W)	1638	1892	2120	2322	2495	2639	2751	2831	2876
	Amps (A)	3.57	3.83	4.08	4.31	4.52	4.7	4.86	4.98	5.07
40	Refrig. Capacity (Watt)		3197	4359	5679	7188	8919	10904	13175	15766
	Power Input (W)		1930	2223	2492	2735	2950	3136	3291	3414
	Amps (A)		3.89	4.23	4.54	4.84	5.1	5.35	5.55	5.73
50	Refrig. Capacity (Watt)			3383	4549	5863	7357	9063	11015	13244
	Power Input (W)			2284	2620	2931	3217	3475	3705	3905
	Amps (A)			4.31	4.72	5.11	5.48	5.82	6.13	6.4
60	Refrig. Capacity (Watt)				3440	4551	5800	7220	8844	10704
	Power Input (W)				2717	3096	3451	3782	4086	4362
	Amps (A)				4.81	5.32	5.79	6.24	6.66	7.05

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50HZ R-449A*

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30	Refrig. Capacity (Watt)	2943	4043	5310	6776	8473	10433	12688	15272	18216
	Power Input (W)	1638	1892	2120	2322	2495	2639	2751	2831	2876
	Amps (A)	3.57	3.83	4.08	4.31	4.52	4.7	4.86	4.98	5.07
40	Refrig. Capacity (Watt)		3197	4359	5679	7188	8919	10904	13175	15766
	Power Input (W)		1930	2223	2492	2735	2950	3136	3291	3414
	Amps (A)		3.89	4.23	4.54	4.84	5.1	5.35	5.55	5.73
50	Refrig. Capacity (Watt)			3383	4549	5863	7357	9063	11015	13244
	Power Input (W)			2284	2620	2931	3217	3475	3705	3905
	Amps (A)			4.31	4.72	5.11	5.48	5.82	6.13	6.4
60	Refrig. Capacity (Watt)				3440	4551	5800	7220	8844	10704
	Power Input (W)				2717	3096	3451	3782	4086	4362
	Amps (A)				4.81	5.32	5.79	6.24	6.66	7.05

* 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

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

60HZ R-452A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	3915	5298	6858	8632	10657	12968	15603	18598	21990
	Power Input	(W)	2050	2378	2665	2915	3130	3317	3478	3617	3740
	Amps	(A)	3.65	3.94	4.2	4.43	4.64	4.83	5.02	5.21	5.39
40	Refrig. Capacity	(Watt)		4117	5547	7135	8917	10929	13209	15794	18718
	Power Input	(W)		2409	2789	3126	3425	3690	3926	4135	4323
	Amps	(A)		3.98	4.34	4.66	4.96	5.22	5.47	5.71	5.94
50	Refrig. Capacity	(Watt)			4207	5590	7111	8807	10715	12870	15310
	Power Input	(W)			2837	3266	3653	4001	4315	4598	4855
	Amps	(A)			4.38	4.82	5.22	5.58	5.91	6.22	6.51
60	Refrig. Capacity	(Watt)				4046	5289	6650	8167	9875	11812
	Power Input	(W)				3339	3817	4252	4648	5010	5340
	Amps	(A)				4.84	5.36	5.84	6.28	6.68	7.06

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60HZ R-404A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	4219	5588	7141	8910	10931	13238	15864	18845	22214
	Power Input	(W)	2197	2531	2823	3073	3281	3449	3576	3664	3712
	Amps	(A)	3.91	4.2	4.45	4.67	4.86	5.03	5.16	5.27	5.35
40	Refrig. Capacity	(Watt)	3112	4393	5798	7359	9113	11092	13331	15865	18727
	Power Input	(W)	2153	2571	2949	3286	3584	3843	4063	4245	4389
	Amps	(A)	3.87	4.24	4.59	4.9	5.19	5.44	5.67	5.86	6.03
50	Refrig. Capacity	(Watt)		3175	4415	5753	7223	8858	10694	12765	15104
	Power Input	(W)		2569	3023	3439	3817	4157	4460	4727	4958
	Amps	(A)		4.23	4.66	5.07	5.45	5.79	6.11	6.4	6.65
60	Refrig. Capacity	(Watt)			3045	4143	5313	6588	8005	9596	11396
	Power Input	(W)			3082	3566	4013	4425	4802	5145	5453
	Amps	(A)			4.67	5.17	5.64	6.08	6.48	6.86	7.21



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60HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3484	4787	6287	8023	10031	12352	15022	18081	21567
	Power Input (W)	1933	2232	2502	2740	2944	3114	3246	3340	3393
	Amps (A)	3.44	3.7	3.94	4.16	4.36	4.54	4.69	4.81	4.89
40	Refrig. Capacity (Watt)		3785	5161	6723	8510	10559	12910	15599	18666
	Power Input (W)		2277	2623	2940	3227	3480	3700	3883	4028
	Amps (A)		3.76	4.08	4.38	4.67	4.93	5.16	5.36	5.53
50	Refrig. Capacity (Watt)			4006	5386	6941	8710	10731	13041	15680
	Power Input (W)			2695	3091	3458	3795	4100	4372	4608
	Amps (A)			4.16	4.56	4.94	5.29	5.62	5.92	6.18
60	Refrig. Capacity (Watt)				4073	5388	6867	8549	10471	12673
	Power Input (W)				3206	3653	4072	4462	4821	5146
	Amps (A)				4.65	5.13	5.59	6.03	6.43	6.8

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