



tecumseh

FH4532Z-XC3A

220 - 240V 1~ 50 Hz

Compressor

HBP

R-404A / R-448A / R-449A / R-452A

Voltage Code : XC

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	6482	22104	74 dBA
R-404A	50HZ	6470	22061	
R-448A	50HZ	6492	22139	
R-449A	50HZ	6492	22139	

(*) 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	31.5 kg (69 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 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	CSR
Main Winding (Ohm)	0.83
Start Winding (Ohm)	2.52
Current RLA 50Hz (A)	11.5
Current MCC (A)	21.5
Current LRA (A)	85
Start Capacitor	125-144 µF / 330 V
Run Capacitor	50 µF / 400 V
Overload	15HM 2357-148
- Time Check	2.0-10s / 64 A
- Open Temp / Close Temp	130 °C / 69 °C
Potential Relay	RVA 4G3D
- Pick Up / Drop Out	180-195 V / 40-105 V

Note : Tecumseh reserves the right to change information contained in this document without notification.



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FH4532Z-XC3A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
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)	2237	3041	3987	5097	6393	7898	9634	11622	13884
	Power Input (W)	1288	1436	1555	1651	1729	1793	1848	1899	1950
	Amps (A)	5.94	6.57	7.09	7.5	7.8	8	8.11	8.13	8.07
40	Refrig. Capacity (Watt)		2365	3202	4166	5279	6563	8041	9735	11666
	Power Input (W)		1496	1676	1826	1950	2053	2140	2216	2286
	Amps (A)		6.85	7.66	8.35	8.93	9.39	9.75	10	10.2
50	Refrig. Capacity (Watt)			2440	3260	4192	5259	6482	7884	9486
	Power Input (W)			1731	1947	2131	2286	2419	2533	2633
	Amps (A)			7.9	8.9	9.77	10.5	11.2	11.7	12.1
60	Refrig. Capacity (Watt)				2376	3131	3982	4954	6066	7343
	Power Input (W)				2004	2260	2481	2672	2837	2982
	Amps (A)				9.08	10.3	11.3	12.3	13.1	13.8

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2410	3208	4151	5261	6558	8063	9795	11776	14026
	Power Input (W)	1380	1528	1647	1740	1812	1864	1900	1923	1935
	Amps (A)	6.36	7	7.51	7.9	8.17	8.31	8.34	8.24	8.02
40	Refrig. Capacity (Watt)	1807	2524	3347	4297	5395	6661	8116	9779	11671
	Power Input (W)	1389	1597	1773	1919	2040	2138	2215	2275	2321
	Amps (A)	6.4	7.32	8.11	8.79	9.34	9.77	10.1	10.3	10.3
50	Refrig. Capacity (Watt)		1854	2561	3355	4258	5289	6470	7819	9358
	Power Input (W)		1606	1844	2050	2226	2375	2500	2604	2689
	Amps (A)		7.34	8.42	9.38	10.2	10.9	11.5	12	12.4
60	Refrig. Capacity (Watt)			1790	2433	3144	3945	4855	5895	7085
	Power Input (W)			1867	2138	2376	2582	2760	2914	3045
	Amps (A)			8.43	9.67	10.8	11.8	12.7	13.4	14.1



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FH4532Z-XC3A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
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)	1992	2748	3655	4737	6018	7522	9274	11298	13618
	Power Input (W)	1215	1348	1460	1552	1626	1683	1725	1753	1769
	Amps (A)	5.6	6.17	6.66	7.04	7.33	7.51	7.57	7.51	7.33
40	Refrig. Capacity (Watt)		2175	2979	3925	5038	6341	7858	9615	11634
	Power Input (W)		1413	1577	1717	1837	1936	2017	2081	2130
	Amps (A)		6.48	7.22	7.86	8.41	8.85	9.18	9.4	9.49
50	Refrig. Capacity (Watt)			2322	3140	4092	5201	6492	7989	9717
	Power Input (W)			1644	1843	2017	2169	2298	2408	2499
	Amps (A)			7.5	8.43	9.25	9.98	10.6	11.1	11.5
60	Refrig. Capacity (Watt)				2391	3190	4114	5186	6432	7875
	Power Input (W)				1923	2163	2376	2564	2730	2873
	Amps (A)				8.7	9.83	10.9	11.8	12.6	13.3

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50HZ R-449A*

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	Power Input (W)	1215	1348	1460	1552	1626	1683	1725	1753	1769
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	Amps (A)				8.7	9.83	10.9	11.8	12.6	13.3

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.