



tecumseh

FH2511Z-XC3A

220 - 240V 1~ 50 Hz

Compressor

LBP

R-452A / R-404A

Voltage Code : XC

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	2735	9326	75 dBA
R-404A	50HZ	2881	9825	
R-448A	50HZ	2632	8977	
R-449A	50HZ	2629	8964	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap -10°F / T°Return gas temp. 40°F / T°Subcooling 0°F



*Non-contractual picture

Dimensions

Weight	33.5 kg (74 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
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -12.2°C (-40°F to 10°F)
Oil Type	P.O.E 32
Oil Charge (cc)	1140

Electrical

Motor Type	CSR
Main Winding (Ohm)	0.75
Start Winding (Ohm)	2.02
Current RLA 50Hz (A)	8.03
Current MCC (A)	24
Current LRA (A)	71
Start Capacitor	161-193 µF / 330 V
Run Capacitor	60 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 3AH3D
- Pick Up / Drop Out	190-215 V / 40-105 V

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



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Performances are given at rating conditions ARI 520-90
Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4424	6978	10208	14206	19064	24871
	Power Input	(W)	1186	1509	1834	2150	2452	2730
	Amps	(A)	6.97	7.45	7.97	8.54	9.16	9.82
105	Refrig. Capacity	(Btu/h)	3068	5352	8227	11782	16106	21289
	Power Input	(W)	1093	1463	1842	2222	2596	2955
	Amps	(A)	6.7	7.34	8.02	8.74	9.51	10.3
120	Refrig. Capacity	(Btu/h)		3755	6244	9326	13088	17615
	Power Input	(W)		1360	1795	2240	2687	3128
	Amps	(A)		7.05	7.9	8.79	9.71	10.7
140	Refrig. Capacity	(Btu/h)			3683	6088	9050	12649
	Power Input	(W)			1637	2170	2716	3268
	Amps	(A)			7.45	8.56	9.71	10.9

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50HZ R-404A

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	4997	7619	10906	14941	19808	25587
	Power Input	(W)	1302	1640	1974	2297	2602	2880
	Amps	(A)	7.66	8.09	8.58	9.12	9.72	10.4
105	Refrig. Capacity	(Btu/h)	3598	5931	8835	12391	16681	21783
	Power Input	(W)	1225	1610	2000	2389	2767	3127
	Amps	(A)	7.51	8.08	8.71	9.4	10.1	10.9
120	Refrig. Capacity	(Btu/h)		4284	6776	9825	13509	17903
	Power Input	(W)		1529	1976	2430	2882	3325
	Amps	(A)		7.93	8.7	9.53	10.4	11.4
140	Refrig. Capacity	(Btu/h)			4139	6465	9292	12690
	Power Input	(W)			1859	2401	2952	3506
	Amps	(A)			8.46	9.48	10.6	11.7



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220 - 240V 1~ 50 Hz

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Conditions DEW

Return gas temp. : 40 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3839	6253	9347	13226	17998	23768
	Power Input	(W)	1088	1397	1709	2016	2310	2582
	Amps	(A)	6.4	6.89	7.43	8.01	8.63	9.29
105	Refrig. Capacity	(Btu/h)		4811	7608	11118	15447	20697
	Power Input	(W)		1347	1712	2081	2446	2798
	Amps	(A)		6.76	7.45	8.19	8.96	9.78
120	Refrig. Capacity	(Btu/h)		3375	5856	8977	12841	17552
	Power Input	(W)		1243	1662	2094	2531	2964
	Amps	(A)		6.45	7.31	8.21	9.15	10.1
140	Refrig. Capacity	(Btu/h)			3596	6166	9380	13336
	Power Input	(W)			1505	2022	2556	3099
	Amps	(A)			6.85	7.98	9.14	10.3

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50HZ R-449A*

Condensing	Evaporating	(°F)	-40	-30	-20	-10	0	10
90	Refrig. Capacity	(Btu/h)	3836	6247	9337	13212	17979	23742
	Power Input	(W)	1088	1397	1709	2016	2310	2582
	Amps	(A)	6.4	6.89	7.43	8.01	8.63	9.29
105	Refrig. Capacity	(Btu/h)	2619	4805	7599	11105	15428	20671
	Power Input	(W)	994	1347	1712	2081	2446	2798
	Amps	(A)	6.1	6.76	7.45	8.19	8.96	9.78
120	Refrig. Capacity	(Btu/h)		3371	5848	8964	12822	17525
	Power Input	(W)		1243	1662	2094	2531	2964
	Amps	(A)		6.45	7.31	8.21	9.15	10.1
140	Refrig. Capacity	(Btu/h)			3590	6154	9361	13309
	Power Input	(W)			1505	2022	2556	3099
	Amps	(A)			6.85	7.98	9.14	10.3

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