



tecumseh

FH4524Z-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	2905	9906	73 dBA
R-404A	50HZ	2934	10004	
R-448A	50HZ	2901	9891	
R-449A	50HZ	2896	9875	

(*) 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	29.3 kg (65 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)	43.3
Horse Power	1-3/4
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	CSR
Main Winding (Ohm)	1.31
Start Winding (Ohm)	3.8
Current RLA 50Hz (A)	10.5
Current MCC (A)	15.9
Current LRA (A)	52
Start Capacitor	88-101 µF / 330 V
Run Capacitor	35 µF / 400 V
Overload	15HM- 2311-148
- Time Check	2.0-10s / 56 A
- Open Temp / Close Temp	120 °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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220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
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)	4557	6840	9641	13072	17252	22309	28379	35610
	Power Input	(W)	971	1135	1276	1394	1486	1551	1590	1599
	Amps	(A)	4.68	5.36	6	6.57	7.03	7.34	7.49	7.42
105	Refrig. Capacity	(Btu/h)	3196	5240	7708	10705	14349	18767	24099	30501
	Power Input	(W)	940	1151	1340	1504	1643	1755	1839	1895
	Amps	(A)	4.68	5.51	6.31	7.06	7.71	8.25	8.63	8.82
120	Refrig. Capacity	(Btu/h)			5871	8430	11533	15307	19896	25461
	Power Input	(W)			1359	1575	1767	1931	2067	2175
	Amps	(A)			6.45	7.41	8.29	9.07	9.72	10.2
140	Refrig. Capacity	(Btu/h)				5583	7958	10866	14453	18894
	Power Input	(W)				1595	1864	2107	2322	2507
	Amps	(A)				7.49	8.72	9.87	10.9	11.8

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4909	7166	9955	13383	17570	22644	28744	36021
	Power Input	(W)	1043	1209	1351	1467	1554	1609	1630	1614
	Amps	(A)	5.03	5.72	6.36	6.92	7.35	7.62	7.68	7.49
105	Refrig. Capacity	(Btu/h)	3534	5535	7965	10928	14539	18927	24233	30620
	Power Input	(W)	1022	1231	1418	1581	1717	1823	1896	1935
	Amps	(A)	5.07	5.88	6.68	7.42	8.06	8.57	8.9	9
120	Refrig. Capacity	(Btu/h)		3997	6065	8562	11596	15296	19806	25297
	Power Input	(W)		1211	1446	1657	1844	2003	2132	2227
	Amps	(A)		5.91	6.86	7.79	8.66	9.41	10	10.4
140	Refrig. Capacity	(Btu/h)			3723	5591	7854	10635	14080	18376
	Power Input	(W)			1417	1697	1955	2187	2392	2566
	Amps	(A)			6.77	7.97	9.15	10.2	11.2	12.1



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

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)	4265	6446	9153	12499	16601	21585	27582	34727
	Power Input	(W)	920	1067	1199	1310	1397	1456	1482	1473
	Amps	(A)	4.43	5.05	5.64	6.18	6.61	6.89	6.98	6.84
105	Refrig. Capacity	(Btu/h)		5054	7458	10408	14023	18426	23752	30144
	Power Input	(W)		1089	1261	1416	1548	1655	1732	1775
	Amps	(A)		5.21	5.94	6.64	7.27	7.78	8.12	8.26
120	Refrig. Capacity	(Btu/h)			5841	8403	11537	15366	20027	25669
	Power Input	(W)			1288	1490	1672	1831	1963	2063
	Amps	(A)			6.12	7.01	7.85	8.61	9.23	9.67
140	Refrig. Capacity	(Btu/h)				5930	8433	11507	15292	19943
	Power Input	(W)				1529	1784	2020	2231	2414
	Amps	(A)				7.18	8.35	9.46	10.5	11.4

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4255	6432	9137	12482	16586	21574	27578	34737
	Power Input	(W)	920	1067	1199	1310	1397	1456	1482	1473
	Amps	(A)	4.43	5.05	5.64	6.18	6.61	6.89	6.98	6.84
105	Refrig. Capacity	(Btu/h)		5042	7443	10392	14008	18415	23749	30154
	Power Input	(W)		1089	1261	1416	1548	1655	1732	1775
	Amps	(A)		5.21	5.94	6.64	7.27	7.78	8.12	8.26
120	Refrig. Capacity	(Btu/h)			5827	8388	11521	15354	20024	25680
	Power Input	(W)			1288	1490	1672	1831	1963	2063
	Amps	(A)			6.12	7.01	7.85	8.61	9.23	9.67
140	Refrig. Capacity	(Btu/h)				5915	8418	11496	15288	19954
	Power Input	(W)				1529	1784	2020	2231	2414
	Amps	(A)				7.18	8.35	9.46	10.5	11.4

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