



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	5236	17853	73 dBA
R-404A	50HZ	5225	17819	
R-448A	50HZ	5244	17881	
R-449A	50HZ	5244	17881	

(*) Operating conditions EN12900 : Dew / T°Cond. 122°F / T°Evap 41°F / T°Return gas temp. 68°F / T°Subcooling 0°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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FH4524Z-XC3A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 68 °F
Subcooling : 0 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5296	7755	10669	14123	18203	22992	28577	35042
	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)		6066	8673	11715	15277	19442	24297	29926
	Power Input	(W)		1151	1340	1504	1643	1755	1839	1895
	Amps	(A)		5.51	6.31	7.06	7.71	8.25	8.63	8.82
120	Refrig. Capacity	(Btu/h)			6756	9385	12427	15968	20091	24884
	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)				6440	8789	11495	14643	18319
	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)	5780	8216	11118	14565	18636	23409	28965	35381
	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)		6497	9067	12069	15582	19684	24454	29973
	Power Input	(W)		1231	1418	1581	1717	1823	1896	1935
	Amps	(A)		5.88	6.68	7.42	8.06	8.57	8.9	9
120	Refrig. Capacity	(Btu/h)		4845	7087	9646	12603	16037	20025	24648
	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)			4603	6577	8798	11344	14294	17728
	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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Conditions DEW

Return gas temp. : 68 °F
Subcooling : 0 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4724	7022	9810	13180	17226	22039	27714	34343
	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)		5577	8077	11065	14634	18876	23885	29754
	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)			6410	9025	12126	15807	20159	25277
	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)				6489	8982	11928	15421	19552
	Power Input	(W)				1529	1784	2020	2231	2414
	Amps	(A)				7.18	8.35	9.46	10.5	11.4

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