



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. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	28.5 kg (63 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 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)	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. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1810	2490	3288	4220	5306	6563	8009	9664	11544
	Power Input	(W)	1003	1138	1253	1349	1425	1480	1513	1523	1510
	Amps	(A)	4.79	5.37	5.91	6.38	6.77	7.04	7.18	7.15	6.94
40	Refrig. Capacity	(Watt)		1883	2582	3385	4312	5380	6607	8012	9612
	Power Input	(W)		1171	1337	1483	1608	1712	1794	1853	1888
	Amps	(A)		5.58	6.29	6.96	7.55	8.05	8.43	8.66	8.73
50	Refrig. Capacity	(Watt)			1908	2583	3350	4228	5236	6390	7710
	Power Input	(W)			1357	1560	1742	1903	2041	2157	2248
	Amps	(A)			6.46	7.34	8.18	8.94	9.6	10.1	10.5
60	Refrig. Capacity	(Watt)				1824	2432	3120	3908	4812	5852
	Power Input	(W)				1566	1812	2037	2239	2418	2572
	Amps	(A)				7.36	8.48	9.54	10.5	11.4	12.1

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50HZ R-404A

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1950	2627	3423	4356	5443	6699	8143	9792	11661
	Power Input	(W)	1075	1211	1327	1422	1493	1538	1556	1544	1500
	Amps	(A)	5.13	5.72	6.26	6.73	7.09	7.32	7.38	7.25	6.9
40	Refrig. Capacity	(Watt)	1407	2009	2699	3492	4407	5460	6668	8048	9616
	Power Input	(W)	1068	1250	1415	1560	1683	1782	1856	1902	1918
	Amps	(A)	5.23	5.96	6.66	7.32	7.9	8.38	8.72	8.89	8.87
50	Refrig. Capacity	(Watt)		1419	2003	2658	3403	4253	5225	6338	7607
	Power Input	(W)		1231	1446	1644	1822	1978	2110	2216	2295
	Amps	(A)		5.99	6.88	7.74	8.55	9.29	9.92	10.4	10.7
60	Refrig. Capacity	(Watt)			1350	1868	2443	3091	3830	4676	5646
	Power Input	(W)			1417	1670	1905	2120	2314	2483	2627
	Amps	(A)			6.77	7.85	8.91	9.93	10.9	11.7	12.4



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FH4524Z-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)	1611	2250	3014	3922	4994	6251	7711	9395	11322
	Power Input (W)	946	1068	1177	1268	1340	1389	1412	1407	1371
	Amps (A)	4.52	5.05	5.55	6	6.36	6.61	6.7	6.61	6.3
40	Refrig. Capacity (Watt)		1732	2402	3190	4115	5198	6457	7913	9586
	Power Input (W)		1107	1258	1395	1515	1614	1690	1740	1760
	Amps (A)		5.27	5.92	6.55	7.11	7.59	7.94	8.13	8.14
50	Refrig. Capacity (Watt)			1817	2488	3270	4182	5244	6476	7897
	Power Input (W)			1289	1477	1650	1806	1940	2050	2133
	Amps (A)			6.13	6.95	7.75	8.48	9.12	9.63	9.98
60	Refrig. Capacity (Watt)				1836	2478	3223	4092	5103	6277
	Power Input (W)				1502	1735	1952	2150	2326	2479
	Amps (A)				7.06	8.12	9.14	10.1	10.9	11.7

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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.