



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	3634	12392	74 dBA
R-404A	50HZ	3670	12515	
R-448A	50HZ	3629	12373	
R-449A	50HZ	3623	12354	

(*) 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	31.5 kg (69 lb)
Length	238 mm (9.4 in)
Width	222 mm (8.7 in)
Height	354 mm (13.9 in)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	50.6
Horse Power	2
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)	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.



tecumseh

FH4532Z-XC3A

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)	5699	8406	11741	15838	20842	26907	34202	42903
	Power Input	(W)	1253	1439	1587	1705	1798	1874	1938	1999
	Amps	(A)	5.79	6.59	7.24	7.76	8.14	8.39	8.54	8.57
105	Refrig. Capacity	(Btu/h)	4153	6608	9573	13179	17568	22895	29330	37060
	Power Input	(W)	1224	1475	1681	1849	1986	2098	2192	2274
	Amps	(A)	5.67	6.76	7.69	8.46	9.1	9.6	9.97	10.2
120	Refrig. Capacity	(Btu/h)			7478	10595	14372	18963	24541	31303
	Power Input	(W)			1728	1958	2148	2306	2439	2553
	Amps	(A)			7.89	8.95	9.86	10.6	11.2	11.7
140	Refrig. Capacity	(Btu/h)				7261	10221	13833	18273	23753
	Power Input	(W)				2034	2312	2548	2748	2920
	Amps	(A)				9.22	10.5	11.7	12.6	13.5

© 2025 Tecumseh Products Company

50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6137	8808	12123	16215	21225	27311	34641	43398
	Power Input	(W)	1349	1532	1680	1795	1882	1945	1988	2015
	Amps	(A)	6.23	7.02	7.67	8.16	8.51	8.71	8.75	8.65
105	Refrig. Capacity	(Btu/h)	4584	6978	9893	13454	17801	23090	29493	37205
	Power Input	(W)	1336	1577	1778	1943	2076	2181	2261	2322
	Amps	(A)	6.17	7.23	8.14	8.9	9.51	9.97	10.3	10.4
120	Refrig. Capacity	(Btu/h)		5211	7726	10761	14451	18948	24430	31101
	Power Input	(W)		1580	1839	2058	2242	2393	2516	2615
	Amps	(A)		7.22	8.4	9.42	10.3	11	11.6	12
140	Refrig. Capacity	(Btu/h)			4938	7271	10088	13539	17802	23103
	Power Input	(W)			1867	2166	2424	2644	2831	2989
	Amps	(A)			8.43	9.8	11	12.1	13	13.8



tecumseh

FH4532Z-XC3A

220 - 240V 1~ 50 Hz

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)	5335	7923	11148	15143	20055	26033	33239	41839
	Power Input	(W)	1188	1352	1490	1602	1691	1759	1808	1840
	Amps	(A)	5.48	6.2	6.8	7.29	7.65	7.88	7.96	7.89
105	Refrig. Capacity	(Btu/h)		6372	9263	12814	17168	22478	28907	36627
	Power Input	(W)		1395	1582	1740	1872	1979	2064	2129
	Amps	(A)		6.39	7.24	7.97	8.57	9.05	9.38	9.57
120	Refrig. Capacity	(Btu/h)			7438	10561	14376	19035	24703	31561
	Power Input	(W)			1639	1851	2033	2187	2316	2422
	Amps	(A)			7.48	8.47	9.34	10.1	10.7	11.1
140	Refrig. Capacity	(Btu/h)				7711	10833	14651	19332	25069
	Power Input	(W)				1951	2212	2441	2641	2812
	Amps	(A)				8.83	10.1	11.2	12.2	13

© 2025 Tecumseh Products Company

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5321	7907	11129	15123	20036	26020	33235	41851
	Power Input	(W)	1188	1352	1490	1602	1691	1759	1808	1840
	Amps	(A)	5.48	6.2	6.8	7.29	7.65	7.88	7.96	7.89
105	Refrig. Capacity	(Btu/h)		6356	9244	12794	17150	22464	28903	36639
	Power Input	(W)		1395	1582	1740	1872	1979	2064	2129
	Amps	(A)		6.39	7.24	7.97	8.57	9.05	9.38	9.57
120	Refrig. Capacity	(Btu/h)			7420	10542	14358	19021	24699	31574
	Power Input	(W)			1639	1851	2033	2187	2316	2422
	Amps	(A)			7.48	8.47	9.34	10.1	10.7	11.1
140	Refrig. Capacity	(Btu/h)				7692	10814	14636	19328	25083
	Power Input	(W)				1951	2212	2441	2641	2812
	Amps	(A)				8.83	10.1	11.2	12.2	13

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