



tecumseh

FH4538Z-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	4730	16130	75 dBA
R-404A	50HZ	4676	15946	
R-448A	50HZ	4724	16107	
R-449A	50HZ	4716	16082	

(*) 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	32.3 kg (71 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)	63
Horse Power	3
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)	0.79
Start Winding (Ohm)	2.71
Current RLA 50Hz (A)	15
Current LRA (A)	85
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.



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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)	7616	10993	15088	20059	26078	33328	42008	52326
	Power Input	(W)	1532	1775	1986	2168	2322	2453	2561	2650
	Amps	(A)	7.68	8.59	9.46	10.3	11	11.6	12.2	12.6
105	Refrig. Capacity	(Btu/h)	5772	8883	12586	17034	22396	28855	36613	45894
	Power Input	(W)	1521	1827	2100	2343	2557	2746	2911	3056
	Amps	(A)	7.69	8.86	9.99	11	12	12.9	13.6	14.2
120	Refrig. Capacity	(Btu/h)			10038	13912	18564	24178	30961	39147
	Power Input	(W)			2166	2475	2754	3006	3234	3439
	Amps	(A)			10.3	11.7	12.9	14.1	15.1	16
140	Refrig. Capacity	(Btu/h)				9712	13339	17743	23139	29780
	Power Input	(W)				2584	2957	3302	3620	3913
	Amps	(A)				12	13.8	15.4	16.9	18.2

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	8027	11276	15251	20103	25998	33114	41649	51811
	Power Input	(W)	1600	1836	2042	2217	2361	2473	2551	2596
	Amps	(A)	8.05	8.92	9.77	10.6	11.2	11.8	12.2	12.4
105	Refrig. Capacity	(Btu/h)	6225	9181	12732	17022	22213	28485	36039	45100
	Power Input	(W)	1610	1897	2158	2392	2596	2771	2916	3030
	Amps	(A)	8.17	9.24	10.3	11.3	12.2	13.1	13.7	14.2
120	Refrig. Capacity	(Btu/h)		7071	10150	13832	18272	23650	30171	38076
	Power Input	(W)		1925	2239	2529	2792	3029	3239	3420
	Amps	(A)		9.39	10.7	12	13.2	14.3	15.2	16
140	Refrig. Capacity	(Btu/h)			6727	9523	12889	16999	22065	28351
	Power Input	(W)			2310	2672	3012	3329	3623	3892
	Amps	(A)			10.8	12.5	14.1	15.6	17	18.2



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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)	7125	10359	14323	19179	25094	32248	40828	51029
	Power Input	(W)	1452	1668	1864	2037	2184	2302	2388	2440
	Amps	(A)	7.28	8.07	8.88	9.65	10.4	10.9	11.4	11.6
105	Refrig. Capacity	(Btu/h)		8566	12179	16563	21887	28331	36086	45356
	Power Input	(W)		1729	1977	2205	2410	2590	2741	2861
	Amps	(A)		8.39	9.4	10.4	11.3	12.1	12.8	13.3
120	Refrig. Capacity	(Btu/h)			9989	13870	18571	24270	31164	39467
	Power Input	(W)			2055	2340	2607	2851	3071	3262
	Amps	(A)			9.78	11	12.2	13.4	14.4	15.2
140	Refrig. Capacity	(Btu/h)				10314	14133	18789	24480	31436
	Power Input	(W)				2478	2830	3165	3479	3769
	Amps	(A)				11.5	13.2	14.8	16.2	17.5

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	7107	10337	14299	19153	25071	32231	40823	51044
	Power Input	(W)	1452	1668	1864	2037	2184	2302	2388	2440
	Amps	(A)	7.28	8.07	8.88	9.65	10.4	10.9	11.4	11.6
105	Refrig. Capacity	(Btu/h)		8545	12154	16537	21863	28313	36080	45372
	Power Input	(W)		1729	1977	2205	2410	2590	2741	2861
	Amps	(A)		8.39	9.4	10.4	11.3	12.1	12.8	13.3
120	Refrig. Capacity	(Btu/h)			9965	13845	18547	24252	31159	39483
	Power Input	(W)			2055	2340	2607	2851	3071	3262
	Amps	(A)			9.78	11	12.2	13.4	14.4	15.2
140	Refrig. Capacity	(Btu/h)				10288	14108	18770	24475	31454
	Power Input	(W)				2478	2830	3165	3479	3769
	Amps	(A)				11.5	13.2	14.8	16.2	17.5

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