



tecumseh

AE4460Z-FZ1C

220 - 240V 1~ 50 Hz

Compressor

HBP

R-404A

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	938	3197	
R-404A	50HZ	930	3172	
R-448A	50HZ	985	3358	
R-449A	50HZ	983	3354	

(*) 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	11.5 kg (25 lb)
Length	251 mm (9.9 in)
Width	161 mm (6.3 in)
Height	207 mm (8.2 in)
Ø Suction Tube	3/8 in (9.52mm)
Ø Discharge Tube	1/4 in (6.35mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	10.3
Horse Power	1/2
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	366

Electrical

Motor Type	CSIR
Main Winding (Ohm)	4.09
Start Winding (Ohm)	20.81
Current RLA 50Hz (A)	3.96
Current LRA (A)	18
Start Capacitor	64-77 µF / 330 V
Overload	T88494-23
- Time Check	6.5 - 16.0s / 14 A
- Open Temp / Close Temp	150 °C / 52 °C
Current Relay	RP5338
- Pick Up / Drop Out	10 A / 8.45 A

Note : Tecumseh reserves the right to change information contained in this document without notification.



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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)	1785	2364	3045	3846	4781	5867	7119	8554
	Power Input	(W)	343	384	423	459	490	516	535	545
	Amps	(A)	2.78	2.9	3.02	3.13	3.24	3.32	3.39	3.43
105	Refrig. Capacity	(Btu/h)	1530	2051	2658	3366	4191	5149	6255	7526
	Power Input	(W)	362	407	451	493	532	566	593	614
	Amps	(A)	2.82	2.96	3.1	3.25	3.39	3.51	3.62	3.71
120	Refrig. Capacity	(Btu/h)			2252	2858	3564	4384	5336	6433
	Power Input	(W)			481	531	578	622	661	693
	Amps	(A)			3.19	3.37	3.55	3.72	3.88	4.02
140	Refrig. Capacity	(Btu/h)				2191	2723	3346	4075	4925
	Power Input	(W)				577	639	699	756	807
	Amps	(A)				3.53	3.78	4.02	4.26	4.48

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1823	2399	3078	3877	4812	5901	7158	8602
	Power Input	(W)	349	392	433	470	501	527	546	557
	Amps	(A)	2.86	2.99	3.11	3.23	3.33	3.42	3.49	3.53
105	Refrig. Capacity	(Btu/h)	1502	2041	2657	3368	4189	5139	6232	7486
	Power Input	(W)	365	414	460	504	544	578	607	628
	Amps	(A)	2.9	3.05	3.2	3.35	3.49	3.62	3.73	3.82
120	Refrig. Capacity	(Btu/h)		1683	2225	2836	3532	4330	5247	6300
	Power Input	(W)		434	489	542	592	636	676	709
	Amps	(A)		3.1	3.28	3.47	3.66	3.83	4	4.14
140	Refrig. Capacity	(Btu/h)			1671	2130	2640	3218	3881	4646
	Power Input	(W)			520	588	653	715	772	824
	Amps	(A)			3.39	3.64	3.89	4.15	4.39	4.62



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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)	1859	2460	3166	3994	4962	6084	7378	8860
	Power Input	(W)	329	368	406	440	471	495	513	523
	Amps	(A)	2.75	2.87	2.99	3.1	3.2	3.29	3.35	3.39
105	Refrig. Capacity	(Btu/h)		2146	2777	3512	4368	5361	6508	7823
	Power Input	(W)		391	433	473	511	543	570	589
	Amps	(A)		2.93	3.07	3.21	3.35	3.48	3.58	3.67
120	Refrig. Capacity	(Btu/h)			2371	3004	3740	4595	5584	6725
	Power Input	(W)			461	510	555	598	635	666
	Amps	(A)			3.15	3.33	3.51	3.68	3.84	3.98
140	Refrig. Capacity	(Btu/h)				2351	2913	3569	4336	5229
	Power Input	(W)				554	614	671	725	775
	Amps	(A)				3.49	3.74	3.98	4.21	4.44

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1857	2457	3163	3991	4958	6079	7372	8853
	Power Input	(W)	329	368	406	440	471	495	513	523
	Amps	(A)	2.75	2.87	2.99	3.1	3.2	3.29	3.35	3.39
105	Refrig. Capacity	(Btu/h)		2143	2774	3508	4364	5356	6501	7816
	Power Input	(W)		391	433	473	511	543	570	589
	Amps	(A)		2.93	3.07	3.21	3.35	3.48	3.58	3.67
120	Refrig. Capacity	(Btu/h)			2368	3000	3735	4589	5577	6717
	Power Input	(W)			461	510	555	598	635	666
	Amps	(A)			3.15	3.33	3.51	3.68	3.84	3.98
140	Refrig. Capacity	(Btu/h)				2346	2907	3562	4328	5220
	Power Input	(W)				554	614	671	725	775
	Amps	(A)				3.49	3.74	3.98	4.21	4.44

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