



tecumseh

AE4470Z-FZ3C

220 - 240V 1~ 50 Hz

Compressor

CBP/HBP (M-HBP)

R-404A

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	1093	3725	
R-404A	50HZ	1062	3621	
R-448A	50HZ	1148	3913	
R-449A	50HZ	1146	3908	

(*) 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	12.3 kg (27 lb)
Length	198 mm (7.8 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)	12
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	CSR
Main Winding (Ohm)	4.86
Start Winding (Ohm)	12.16
Current RLA 50Hz (A)	3.9
Current LRA (A)	18.2
Start Capacitor	88-108 µF / 330 V
Run Capacitor	20 µF / 400 V
Overload	MSP28APW-122
- Time Check	6.5-15.0s / 14.0 A
- Open Temp / Close Temp	135 °C / 61 °C
Potential Relay	RVA6M3C
- Pick Up / Drop Out	/ 60-135 V

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)	2131	2761	3509	4394	5436	6652	8062	9686
	Power Input	(W)	538	531	541	564	597	638	684	731
	Amps	(A)	2.14	2.28	2.43	2.6	2.77	2.96	3.16	3.37
105	Refrig. Capacity	(Btu/h)	1904	2454	3104	3873	4779	5841	7078	8508
	Power Input	(W)	555	554	569	598	636	682	731	783
	Amps	(A)	2.22	2.38	2.56	2.74	2.94	3.15	3.37	3.6
120	Refrig. Capacity	(Btu/h)			2690	3351	4131	5049	6121	7369
	Power Input	(W)			596	629	673	723	778	834
	Amps	(A)			2.68	2.88	3.1	3.33	3.58	3.83
140	Refrig. Capacity	(Btu/h)				2657	3282	4018	4883	5897
	Power Input	(W)				670	721	779	840	902
	Amps	(A)				3.07	3.32	3.58	3.85	4.13

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1744	2214	2816	3556	4439	5473	6662	8012
	Power Input	(W)	481	509	541	575	609	642	670	693
	Amps	(A)	2.21	2.34	2.49	2.65	2.8	2.95	3.08	3.18
105	Refrig. Capacity	(Btu/h)	1700	2167	2753	3464	4306	5286	6409	7681
	Power Input	(W)	483	520	561	604	647	688	726	758
	Amps	(A)	2.24	2.41	2.6	2.79	2.99	3.18	3.36	3.5
120	Refrig. Capacity	(Btu/h)		1980	2551	3235	4038	4965	6024	7219
	Power Input	(W)		537	589	642	696	748	796	839
	Amps	(A)		2.49	2.72	2.97	3.21	3.45	3.68	3.88
140	Refrig. Capacity	(Btu/h)			2206	2849	3594	4447	5414	6501
	Power Input	(W)			617	687	757	826	891	951
	Amps	(A)			2.85	3.17	3.49	3.81	4.12	4.4



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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)	2220	2873	3648	4564	5641	6899	8356	10032
	Power Input	(W)	516	510	519	541	573	613	656	702
	Amps	(A)	2.12	2.26	2.41	2.57	2.74	2.93	3.13	3.34
105	Refrig. Capacity	(Btu/h)		2568	3243	4041	4981	6082	7363	8844
	Power Input	(W)		532	547	574	611	654	702	752
	Amps	(A)		2.36	2.53	2.71	2.91	3.11	3.33	3.56
120	Refrig. Capacity	(Btu/h)			2833	3523	4336	5291	6407	7703
	Power Input	(W)			572	604	646	695	747	800
	Amps	(A)			2.65	2.85	3.07	3.3	3.54	3.79
140	Refrig. Capacity	(Btu/h)				2851	3510	4286	5196	6260
	Power Input	(W)				643	692	748	807	866
	Amps	(A)				3.04	3.28	3.54	3.81	4.09

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2218	2870	3645	4560	5637	6893	8349	10024
	Power Input	(W)	516	510	519	541	573	613	656	702
	Amps	(A)	2.12	2.26	2.41	2.57	2.74	2.93	3.13	3.34
105	Refrig. Capacity	(Btu/h)		2565	3240	4037	4976	6076	7356	8836
	Power Input	(W)		532	547	574	611	654	702	752
	Amps	(A)		2.36	2.53	2.71	2.91	3.11	3.33	3.56
120	Refrig. Capacity	(Btu/h)			2829	3518	4330	5284	6399	7694
	Power Input	(W)			572	604	646	695	747	800
	Amps	(A)			2.65	2.85	3.07	3.3	3.54	3.79
140	Refrig. Capacity	(Btu/h)				2845	3503	4277	5186	6249
	Power Input	(W)				643	692	748	807	866
	Amps	(A)				3.04	3.28	3.54	3.81	4.09

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