



tecumseh

AE4430Z-FZ1A

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	445	1517	
R-404A	50HZ	450	1534	
R-448A	50HZ	467	1594	
R-449A	50HZ	467	1592	

(*) 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	9.9 kg (22 lb)
Length	198 mm (7.8 in)
Width	161 mm (6.3 in)
Height	207 mm (8.2 in)
Ø Suction Tube	1/4 in (6.35mm)
Ø Discharge Tube	3/16 in (4.76mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	5.16
Horse Power	1/4
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)	265

Electrical

Motor Type	CSIR
Main Winding (Ohm)	8.32
Start Winding (Ohm)	21.12
Current RLA 50Hz (A)	2.14
Current LRA (A)	12
Start Capacitor	64-77 µF / 330 V
Overload	MRA5787-5587
- Time Check	6.5-16.0s / 7.5 A
- Open Temp / Close Temp	115 °C / 61 °C
Current Relay	RP4038
- Pick Up / Drop Out	5.3 A / 4.5 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)	580	976	1382	1819	2308	2871	3531	4308
	Power Input	(W)	149	179	204	223	236	244	247	244
	Amps	(A)	1.57	1.6	1.64	1.68	1.71	1.74	1.75	1.74
105	Refrig. Capacity	(Btu/h)	435	812	1188	1581	2015	2510	3088	3770
	Power Input	(W)	155	188	217	240	258	272	280	283
	Amps	(A)	1.58	1.62	1.67	1.73	1.78	1.82	1.85	1.86
120	Refrig. Capacity	(Btu/h)			981	1332	1712	2139	2637	3225
	Power Input	(W)			228	257	280	299	314	324
	Amps	(A)			1.71	1.78	1.85	1.91	1.96	2
140	Refrig. Capacity	(Btu/h)				988	1295	1634	2026	2489
	Power Input	(W)				274	306	333	357	376
	Amps	(A)				1.82	1.92	2.02	2.11	2.18

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	828	1128	1472	1875	2352	2919	3589	4378
	Power Input	(W)	185	203	219	234	246	254	257	254
	Amps	(A)	1.65	1.68	1.72	1.77	1.8	1.83	1.84	1.84
105	Refrig. Capacity	(Btu/h)	645	938	1259	1621	2040	2532	3110	3790
	Power Input	(W)	190	212	233	253	270	283	291	294
	Amps	(A)	1.66	1.71	1.76	1.82	1.87	1.92	1.95	1.96
120	Refrig. Capacity	(Btu/h)		742	1038	1359	1720	2136	2621	3192
	Power Input	(W)		219	245	270	293	312	327	337
	Amps	(A)		1.73	1.8	1.87	1.94	2.01	2.06	2.1
140	Refrig. Capacity	(Btu/h)			729	994	1276	1590	1951	2374
	Power Input	(W)			255	288	319	347	372	392
	Amps	(A)			1.81	1.92	2.02	2.12	2.22	2.29



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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)	604	1016	1437	1889	2395	2978	3659	4461
	Power Input	(W)	143	172	195	214	227	234	237	234
	Amps	(A)	1.55	1.58	1.62	1.66	1.7	1.72	1.73	1.73
105	Refrig. Capacity	(Btu/h)		850	1241	1650	2101	2614	3212	3919
	Power Input	(W)		181	208	230	248	261	269	272
	Amps	(A)		1.61	1.66	1.71	1.76	1.8	1.83	1.84
120	Refrig. Capacity	(Btu/h)			1033	1401	1796	2242	2760	3371
	Power Input	(W)			219	246	269	288	301	311
	Amps	(A)			1.69	1.76	1.83	1.89	1.94	1.98
140	Refrig. Capacity	(Btu/h)				1061	1386	1743	2155	2643
	Power Input	(W)				263	293	320	343	361
	Amps	(A)				1.8	1.9	2	2.08	2.16

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	604	1015	1435	1887	2393	2975	3656	4458
	Power Input	(W)	143	172	195	214	227	234	237	234
	Amps	(A)	1.55	1.58	1.62	1.66	1.7	1.72	1.73	1.73
105	Refrig. Capacity	(Btu/h)		849	1239	1648	2098	2611	3209	3915
	Power Input	(W)		181	208	230	248	261	269	272
	Amps	(A)		1.61	1.66	1.71	1.76	1.8	1.83	1.84
120	Refrig. Capacity	(Btu/h)			1031	1399	1794	2239	2756	3367
	Power Input	(W)			219	246	269	288	301	311
	Amps	(A)			1.69	1.76	1.83	1.89	1.94	1.98
140	Refrig. Capacity	(Btu/h)				1058	1383	1740	2151	2638
	Power Input	(W)				263	293	320	343	361
	Amps	(A)				1.8	1.9	2	2.08	2.16

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