



tecumseh

AE4450Y-FZ1C

220 - 240V 1~ 50 Hz

Compressor

HBP

R-134a

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-134a	50HZ	740	2525	
R-513A	50HZ	788	2687	

(*) 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	11.7 kg (26 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)	13.2
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)	4.75
Start Winding (Ohm)	18.24
Current RLA 50Hz (A)	3.23
Current LRA (A)	17
Start Capacitor	88-108 µF / 250 V
Overload	MSP40AMW-5587
- Time Check	6.5s - 16s / 11.2 A
- Open Temp / Close Temp	135 °C / 61 °C
Current Relay	RP5038
- Pick Up / Drop Out	8.6 A / 7.35 A

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



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AE4450Y-FZ1C

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1160	1604	2134	2775	3554	4494	5622	6964
	Power Input	(W)	243	273	306	341	376	411	444	475
	Amps	(A)	2.16	2.23	2.31	2.42	2.54	2.67	2.8	2.92
105	Refrig. Capacity	(Btu/h)	960	1413	1922	2510	3204	4029	5011	6175
	Power Input	(W)	258	290	326	364	403	443	481	517
	Amps	(A)	2.21	2.28	2.37	2.49	2.63	2.78	2.92	3.07
120	Refrig. Capacity	(Btu/h)		1177	1676	2225	2847	3570	4418	5417
	Power Input	(W)		305	347	391	437	483	529	573
	Amps	(A)		2.32	2.44	2.58	2.75	2.93	3.11	3.29
140	Refrig. Capacity	(Btu/h)			1294	1810	2358	2964	3654	4453
	Power Input	(W)			365	422	480	540	601	660
	Amps	(A)			2.48	2.68	2.91	3.14	3.39	3.65

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50HZ R-513A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1297	1748	2348	3096	3990	5027	6206	7524
	Power Input	(W)	245	279	316	356	397	440	483	526
	Amps	(A)	2.12	2.21	2.32	2.45	2.6	2.77	2.96	3.16
105	Refrig. Capacity	(Btu/h)	1185	1563	2078	2729	3512	4427	5471	6643
	Power Input	(W)	263	298	336	378	421	466	513	559
	Amps	(A)	2.2	2.28	2.39	2.52	2.67	2.84	3.03	3.24
120	Refrig. Capacity	(Btu/h)		1368	1804	2362	3042	3840	4756	5786
	Power Input	(W)		312	354	400	449	499	552	605
	Amps	(A)		2.32	2.44	2.59	2.76	2.96	3.17	3.4
140	Refrig. Capacity	(Btu/h)			1451	1896	2445	3097	3850	4702
	Power Input	(W)			371	427	487	550	615	681
	Amps	(A)			2.48	2.68	2.91	3.16	3.43	3.72