



tecumseh

TC4419Y-UZ1B

230V 1~ 50 Hz / 230V 1~ 60 Hz

Compressor

CBP/HBP (M-HBP)

R-134a / R-513A

Voltage Code : UZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-134a	50HZ / 60HZ	243 / 286	829 / 976	
R-513A	50HZ / 60HZ	235 / 276	801 / 943	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 48.9°C / T°Evap -6.67°C / T°Superheat 11.1K / T°Liquid 0°C



*Non-contractual picture

General

Compressor Type	Reciprocating
Displacement (cc)	4.75
Horse Power	1/6
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Expansion Device	Capillary Tube
Oil Type	P.O.E 32
Oil Charge (cc)	170

Electrical

Motor Type	CSIR
Main Winding (Ohm)	18.2
Start Winding (Ohm)	16.1
Current RLA 50Hz (A)	1.21
Current RLA 60Hz (A)	1.27
Current MCC (A)	1.94
Current LRA (A)	9
Start Capacitor	50-60 µF / 330 V
Overload	B100-130
- Time Check	6 - 16s / 10.0 A
- Open Temp / Close Temp	130 °C / 61 °C
Current Relay	QL2-5.0 B3 19F
- Pick Up / Drop Out	3 A / 2.56 A

Certificates



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



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230V 1~ 50 Hz / 230V 1~ 60 Hz

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

Evaporating : 11.1 K
Superheat : 0 °C

50HZ R-134a

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	116	152	199	257	322	396	474	558	643
	Power Input (W)	99.9	108	116	125	133	140	147	152	156
	Amps (A)	0.9	0.91	0.92	0.94	0.96	0.99	1.02	1.05	1.08
40	Refrig. Capacity (Watt)	93.9	131	177	232	294	362	434	509	585
	Power Input (W)	104	113	124	134	144	155	164	173	181
	Amps (A)	0.9	0.91	0.93	0.95	0.98	1.01	1.04	1.07	1.11
50	Refrig. Capacity (Watt)		96.9	144	199	260	325	392	461	530
	Power Input (W)		118	129	142	154	167	180	192	203
	Amps (A)		0.92	0.94	0.97	1	1.03	1.07	1.11	1.15
60	Refrig. Capacity (Watt)			96.2	152	213	277	343	409	473
	Power Input (W)			135	150	165	180	196	211	226
	Amps (A)			0.96	0.99	1.03	1.07	1.12	1.17	1.22

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50HZ R-513A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	149	177	219	276	346	432	532	647	778
	Power Input (W)	113	117	124	132	141	150	159	167	173
	Amps (A)	1.15	1.07	1.03	1.03	1.04	1.07	1.1	1.11	1.11
40	Refrig. Capacity (Watt)	120	146	185	236	300	378	469	574	693
	Power Input (W)	117	123	132	142	153	164	175	185	193
	Amps (A)	1.17	1.09	1.06	1.06	1.08	1.12	1.16	1.19	1.2
50	Refrig. Capacity (Watt)	93.3	116	149	194	250	317	397	490	595
	Power Input (W)	119	127	138	150	163	176	189	201	212
	Amps (A)	1.17	1.1	1.07	1.08	1.11	1.16	1.21	1.25	1.28
60	Refrig. Capacity (Watt)			121	157	203	259	326	404	494
	Power Input (W)			145	160	175	190	206	220	233
	Amps (A)			1.11	1.12	1.16	1.22	1.28	1.34	1.38



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230V 1~ 50 Hz / 230V 1~ 60 Hz

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

Evaporating : 11.1 K
Superheat : 0 °C

60HZ R-134a

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	136	179	235	302	379	465	558	656	757
	Power Input (W)	122	132	142	152	162	171	179	186	190
	Amps (A)	0.96	0.97	0.98	1	1.03	1.05	1.08	1.11	1.15
40	Refrig. Capacity (Watt)	110	154	209	273	346	426	511	599	688
	Power Input (W)	127	139	151	164	177	189	201	211	221
	Amps (A)	0.96	0.97	0.99	1.01	1.04	1.07	1.11	1.14	1.18
50	Refrig. Capacity (Watt)		114	170	234	305	382	462	543	623
	Power Input (W)		144	158	173	189	205	220	235	248
	Amps (A)		0.98	1	1.03	1.06	1.1	1.14	1.18	1.23
60	Refrig. Capacity (Watt)			113	179	251	326	404	482	557
	Power Input (W)			166	183	201	220	239	258	276
	Amps (A)			1.03	1.06	1.1	1.14	1.19	1.24	1.3

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60HZ R-513A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	175	208	258	324	407	508	626	761	915
	Power Input (W)	138	144	151	161	172	183	194	204	212
	Amps (A)	1.2	1.12	1.08	1.08	1.1	1.12	1.15	1.17	1.16
40	Refrig. Capacity (Watt)	141	172	218	278	353	445	552	675	815
	Power Input (W)	143	151	161	173	187	200	213	226	236
	Amps (A)	1.22	1.14	1.11	1.11	1.14	1.18	1.22	1.25	1.26
50	Refrig. Capacity (Watt)	110	136	176	228	294	373	467	576	700
	Power Input (W)	145	156	168	183	199	215	231	246	259
	Amps (A)	1.23	1.15	1.12	1.13	1.17	1.22	1.27	1.32	1.35
60	Refrig. Capacity (Watt)			142	184	239	305	384	475	581
	Power Input (W)			178	195	214	233	251	269	284
	Amps (A)			1.17	1.18	1.22	1.28	1.35	1.41	1.45