

Compressor

CBP/HBP (M-HBP)

R-134a

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-134a	50HZ	425	1449	
R-513A	50HZ	457	1559	

(*) 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	9.7 kg (21 lb)
Length	251 mm (9.9 in)
Width	161 mm (6.3 in)
Height	196 mm (7.7 in)
Ø Suction Tube	1/4 in (6.35mm)
Ø Discharge Tube	3/16 in (4.76mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	8.02
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)	8.58
Start Winding (Ohm)	53.44
Current RLA 50Hz (A)	2.13
Current LRA (A)	11.5
Start Capacitor	47-56 µF / 250 V
Overload	T14526-23
- Time Check	6.5-16.0s / 8.0 A
- Open Temp / Close Temp	120 °C / 52 °C
Current Relay	RP4238
- Pick Up / Drop Out	5.8 A / 4.95 A

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



tecumseh

AE4430Y-FZ1A

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)	636	892	1214	1614	2100	2684	3376	4186
	Power Input	(W)	167	185	202	218	232	244	251	255
	Amps	(A)	1.71	1.74	1.77	1.8	1.83	1.86	1.89	1.92
105	Refrig. Capacity	(Btu/h)	550	786	1079	1440	1880	2409	3036	3774
	Power Input	(W)	171	191	212	233	253	271	286	298
	Amps	(A)	1.69	1.74	1.79	1.84	1.88	1.93	1.98	2.03
120	Refrig. Capacity	(Btu/h)		680	942	1263	1654	2124	2685	3347
	Power Input	(W)		196	220	245	270	294	317	337
	Amps	(A)		1.73	1.8	1.87	1.93	2	2.07	2.14
140	Refrig. Capacity	(Btu/h)			766	1030	1351	1740	2208	2765
	Power Input	(W)			231	260	291	323	354	384
	Amps	(A)			1.81	1.9	1.99	2.09	2.18	2.27

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50HZ R-513A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	572	892	1243	1645	2117	2680	3353	4156
	Power Input	(W)	168	194	218	240	260	277	293	306
	Amps	(A)	1.72	1.78	1.83	1.89	1.94	1.99	2.03	2.08
105	Refrig. Capacity	(Btu/h)	489	816	1164	1553	2002	2532	3162	3912
	Power Input	(W)	173	201	227	252	276	298	318	337
	Amps	(A)	1.74	1.8	1.85	1.91	1.98	2.04	2.1	2.16
120	Refrig. Capacity	(Btu/h)		667	998	1360	1773	2255	2828	3509
	Power Input	(W)		207	237	266	294	321	347	372
	Amps	(A)		1.81	1.88	1.95	2.03	2.11	2.19	2.28
140	Refrig. Capacity	(Btu/h)			804	1109	1451	1850	2325	2895
	Power Input	(W)			246	281	316	350	384	418
	Amps	(A)			1.89	1.99	2.1	2.21	2.33	2.46