



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	647	2205	
R-404A	50HZ	686	2339	
R-448A	50HZ	693	2362	
R-449A	50HZ	691	2356	

(*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K



*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	9660D-3018-130
- Pick Up / Drop Out	5.3 A / 4.45 A

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



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220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	197	298	403	514	637	776	935	1119	1330
	Power Input (W)	154	179	200	217	228	236	239	237	230
	Amps (A)	1.57	1.6	1.63	1.66	1.69	1.72	1.73	1.73	1.71
40	Refrig. Capacity (Watt)		242	336	434	540	658	792	947	1125
	Power Input (W)		191	216	237	254	266	275	280	280
	Amps (A)		1.63	1.67	1.72	1.76	1.8	1.83	1.85	1.85
50	Refrig. Capacity (Watt)			265	350	439	537	647	772	918
	Power Input (W)			230	256	279	298	313	324	332
	Amps (A)			1.71	1.78	1.84	1.9	1.96	2	2.03
60	Refrig. Capacity (Watt)				264	337	414	499	597	709
	Power Input (W)				270	300	325	348	367	383
	Amps (A)				1.81	1.9	1.99	2.07	2.15	2.2

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	272	353	446	553	680	827	999	1199	1430
	Power Input (W)	186	202	216	228	238	245	248	247	240
	Amps (A)	1.65	1.68	1.72	1.75	1.78	1.81	1.82	1.82	1.79
40	Refrig. Capacity (Watt)	208	286	371	466	574	700	844	1012	1206
	Power Input (W)	194	214	232	250	265	277	286	291	291
	Amps (A)	1.67	1.71	1.76	1.81	1.86	1.9	1.93	1.95	1.95
50	Refrig. Capacity (Watt)		216	293	375	466	569	686	821	978
	Power Input (W)		223	247	270	291	310	326	338	345
	Amps (A)		1.74	1.8	1.87	1.94	2	2.06	2.1	2.13
60	Refrig. Capacity (Watt)			211	280	353	433	522	625	744
	Power Input (W)			255	284	313	339	363	382	398
	Amps (A)			1.81	1.91	2	2.1	2.18	2.26	2.32



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Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	207	313	423	540	670	816	983	1177	1400
	Power Input (W)	148	172	192	208	219	226	229	227	221
	Amps (A)	1.55	1.58	1.61	1.65	1.68	1.7	1.71	1.71	1.69
40	Refrig. Capacity (Watt)		256	356	459	571	697	839	1003	1193
	Power Input (W)		183	207	227	244	256	264	268	269
	Amps (A)		1.61	1.65	1.7	1.75	1.79	1.82	1.83	1.83
50	Refrig. Capacity (Watt)			283	374	470	574	693	829	986
	Power Input (W)			221	246	268	286	300	311	319
	Amps (A)			1.69	1.76	1.82	1.88	1.94	1.98	2.01
60	Refrig. Capacity (Watt)				288	367	452	547	655	781
	Power Input (W)				260	288	312	334	353	368
	Amps (A)				1.79	1.88	1.97	2.05	2.12	2.18

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	206	313	422	539	669	815	982	1175	1398
	Power Input (W)	148	172	192	208	219	226	229	227	221
	Amps (A)	1.55	1.58	1.61	1.65	1.68	1.7	1.71	1.71	1.69
40	Refrig. Capacity (Watt)		255	355	458	570	695	837	1001	1191
	Power Input (W)		183	207	227	244	256	264	268	269
	Amps (A)		1.61	1.65	1.7	1.75	1.79	1.82	1.83	1.83
50	Refrig. Capacity (Watt)			283	373	469	573	691	826	984
	Power Input (W)			221	246	268	286	300	311	319
	Amps (A)			1.69	1.76	1.82	1.88	1.94	1.98	2.01
60	Refrig. Capacity (Watt)				287	366	451	545	653	778
	Power Input (W)				260	288	312	334	353	368
	Amps (A)				1.79	1.88	1.97	2.05	2.12	2.18

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