



tecumseh

AE4470Z-FZ3C

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	1514	5164	
R-404A	50HZ	1497	5106	
R-448A	50HZ	1623	5533	
R-449A	50HZ	1618	5519	

(*) 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	12.3 kg (27 lb)
Length	198 mm (7.8 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)	12
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	CSR
Main Winding (Ohm)	4.86
Start Winding (Ohm)	12.16
Current RLA 50Hz (A)	3.9
Current LRA (A)	18.2
Start Capacitor	88-108 µF / 330 V
Run Capacitor	20 µF / 400 V
Overload	MSP28APW-122
- Time Check	6.5-15.0s / 14.0 A
- Open Temp / Close Temp	135 °C / 61 °C
Potential Relay	RVA6M3C
- Pick Up / Drop Out	/ 60-135 V

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



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AE4470Z-FZ3C

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)	653	821	1017	1244	1506	1806	2148	2536	2971
	Power Input (W)	529	524	533	552	579	614	652	694	735
	Amps (A)	2.14	2.27	2.4	2.54	2.69	2.85	3.02	3.2	3.39
40	Refrig. Capacity (Watt)		713	877	1067	1286	1538	1826	2152	2521
	Power Input (W)		554	568	592	625	665	708	754	799
	Amps (A)		2.39	2.55	2.71	2.89	3.07	3.27	3.47	3.68
50	Refrig. Capacity (Watt)			734	890	1070	1277	1514	1784	2088
	Power Input (W)			599	630	668	713	762	812	863
	Amps (A)			2.69	2.88	3.08	3.29	3.5	3.73	3.97
60	Refrig. Capacity (Watt)				716	860	1025	1213	1426	1667
	Power Input (W)				665	710	761	815	871	926
	Amps (A)				3.04	3.27	3.5	3.74	3.99	4.25

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	509	632	785	969	1185	1434	1716	2032	2382
	Power Input (W)	488	512	539	568	597	624	650	671	687
	Amps (A)	2.23	2.34	2.47	2.6	2.73	2.86	2.97	3.07	3.14
40	Refrig. Capacity (Watt)	505	625	772	945	1146	1376	1635	1923	2240
	Power Input (W)	490	523	559	597	636	673	708	738	764
	Amps (A)	2.27	2.42	2.59	2.76	2.94	3.11	3.27	3.41	3.53
50	Refrig. Capacity (Watt)		560	700	864	1051	1262	1497	1757	2040
	Power Input (W)		544	592	642	692	740	787	829	866
	Amps (A)		2.52	2.74	2.96	3.19	3.42	3.63	3.83	4.01
60	Refrig. Capacity (Watt)			614	765	936	1125	1334	1560	1803
	Power Input (W)			617	680	743	806	866	922	973
	Amps (A)			2.85	3.14	3.43	3.72	4	4.26	4.5



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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-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	685	862	1068	1307	1583	1899	2259	2668	3127
	Power Input (W)	508	504	511	530	556	589	626	666	706
	Amps (A)	2.12	2.24	2.37	2.51	2.66	2.82	2.99	3.17	3.36
40	Refrig. Capacity (Watt)		753	927	1128	1361	1628	1934	2282	2674
	Power Input (W)		532	545	569	600	638	680	724	768
	Amps (A)		2.37	2.52	2.68	2.86	3.04	3.23	3.43	3.64
50	Refrig. Capacity (Watt)			784	952	1145	1367	1623	1913	2243
	Power Input (W)			575	604	642	685	731	780	828
	Amps (A)			2.66	2.85	3.05	3.25	3.47	3.69	3.92
60	Refrig. Capacity (Watt)				781	938	1120	1328	1565	1835
	Power Input (W)				639	682	731	783	836	890
	Amps (A)				3.01	3.23	3.46	3.7	3.94	4.2

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50HZ R-449A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	684	861	1067	1305	1580	1896	2256	2663	3122
	Power Input (W)	508	504	511	530	556	589	626	666	706
	Amps (A)	2.12	2.24	2.37	2.51	2.66	2.82	2.99	3.17	3.36
40	Refrig. Capacity (Watt)		752	925	1126	1358	1625	1930	2277	2669
	Power Input (W)		532	545	569	600	638	680	724	768
	Amps (A)		2.37	2.52	2.68	2.86	3.04	3.23	3.43	3.64
50	Refrig. Capacity (Watt)			782	949	1142	1364	1618	1908	2237
	Power Input (W)			575	604	642	685	731	780	828
	Amps (A)			2.66	2.85	3.05	3.25	3.47	3.69	3.92
60	Refrig. Capacity (Watt)				778	935	1116	1323	1560	1829
	Power Input (W)				639	682	731	783	836	890
	Amps (A)				3.01	3.23	3.46	3.7	3.94	4.2

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