



tecumseh

TAJ2446Z

400V 3~ 50Hz / 440V 3~ 60 Hz

Compressor

AJ2446Z-TZ1B

LBP

R-452A / R-404A

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	549 / 659	1873 / 2247	57 dBA
R-404A	50HZ / 60HZ	597 / 716	2035 / 2441	
R-448A	50HZ / 60HZ	464 / 557	1583 / 1899	
R-449A	50HZ / 60HZ	464 / 557	1583 / 1899	

(*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	20.9 kg (46 lb)
Length	246 mm (9.7 in)
Width	178 mm (7 in)
Height	280 mm (11 in)
Ø Suction Tube	1/2 in (12.7mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	26.2
Horse Power	3/4
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -12.2°C (-40°F to 10°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	475

Electrical

Motor Type	3PH
Main Winding (Ohm)	15.5
Current RLA 50Hz (A)	1.5
Current RLA 60Hz (A)	1.6
Current MCC (A)	3.4
Current LRA (A)	13.4
Overload	Internal

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



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Conditions DEW

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

50HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	503	708	958	1259	1616	2035	2522
	Power Input (W)	453	539	626	712	798	883	967
	Amps (A)	1.03	1.12	1.22	1.33	1.45	1.59	1.73
40	Refrig. Capacity (Watt)	371	549	765	1023	1331	1693	2117
	Power Input (W)	431	536	642	749	856	963	1070
	Amps (A)	1	1.12	1.24	1.38	1.53	1.69	1.86
50	Refrig. Capacity (Watt)			578	793	1049	1354	1712
	Power Input (W)			638	766	895	1025	1156
	Amps (A)			1.25	1.41	1.59	1.77	1.97
60	Refrig. Capacity (Watt)				576	780	1024	1315
	Power Input (W)				760	912	1066	1222
	Amps (A)				1.42	1.62	1.83	2.04

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50HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	551	770	1033	1345	1712	2138	2626
	Power Input (W)	485	579	672	763	851	937	1018
	Amps (A)	1.11	1.2	1.31	1.42	1.55	1.68	1.83
40	Refrig. Capacity (Watt)	410	597	821	1086	1397	1759	2176
	Power Input (W)	470	581	692	803	913	1021	1128
	Amps (A)	1.09	1.21	1.34	1.48	1.63	1.79	1.96
50	Refrig. Capacity (Watt)		434	620	838	1094	1393	1740
	Power Input (W)		562	693	825	957	1090	1222
	Amps (A)		1.2	1.36	1.52	1.7	1.88	2.08
60	Refrig. Capacity (Watt)			431	603	806	1042	1318
	Power Input (W)			670	824	981	1139	1298
	Amps (A)			1.35	1.54	1.74	1.95	2.17



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Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	402	600	846	1146	1505	1930	2427
	Power Input (W)	414	500	586	671	755	837	918
	Amps (A)	0.94	1.04	1.14	1.25	1.37	1.5	1.65
40	Refrig. Capacity (Watt)		464	675	932	1243	1612	2045
	Power Input (W)		504	607	709	811	913	1013
	Amps (A)		1.05	1.18	1.31	1.45	1.6	1.76
50	Refrig. Capacity (Watt)			519	736	1000	1316	1689
	Power Input (W)			609	732	855	977	1100
	Amps (A)			1.19	1.35	1.51	1.69	1.87
60	Refrig. Capacity (Watt)				566	786	1052	1368
	Power Input (W)				731	878	1025	1172
	Amps (A)				1.37	1.56	1.76	1.96

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50HZ R-449A*

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	Power Input (W)	414	500	586	671	755	837	918
	Amps (A)	0.94	1.04	1.14	1.25	1.37	1.5	1.65
40	Refrig. Capacity (Watt)		464	675	932	1243	1612	2045
	Power Input (W)		504	607	709	811	913	1013
	Amps (A)		1.05	1.18	1.31	1.45	1.6	1.76
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* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



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400V 3~ 50Hz / 440V 3~ 60 Hz

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60HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	594	832	1124	1475	1894	2386	2958
	Power Input (W)	536	639	744	853	967	1087	1214
	Amps (A)	1.02	1.13	1.25	1.38	1.54	1.71	1.89
40	Refrig. Capacity (Watt)	451	659	912	1216	1580	2009	2511
	Power Input (W)	512	636	762	893	1029	1172	1322
	Amps (A)	0.99	1.13	1.28	1.44	1.62	1.81	2.02
50	Refrig. Capacity (Watt)			698	952	1256	1618	2045
	Power Input (W)			756	909	1068	1234	1409
	Amps (A)			1.28	1.47	1.67	1.89	2.12
60	Refrig. Capacity (Watt)				694	935	1226	1573
	Power Input (W)				901	1083	1273	1472
	Amps (A)				1.47	1.7	1.94	2.19

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60HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	652	905	1211	1577	2007	2506	3080
	Power Input (W)	574	686	799	914	1031	1153	1278
	Amps (A)	1.09	1.21	1.34	1.48	1.64	1.81	1.99
40	Refrig. Capacity (Watt)	498	716	978	1291	1659	2087	2582
	Power Input (W)	558	689	821	958	1098	1243	1393
	Amps (A)	1.08	1.22	1.38	1.54	1.73	1.92	2.13
50	Refrig. Capacity (Watt)		532	748	1006	1310	1666	2078
	Power Input (W)		667	821	979	1142	1312	1489
	Amps (A)		1.21	1.39	1.58	1.79	2.01	2.24
60	Refrig. Capacity (Watt)			526	727	966	1247	1576
	Power Input (W)			797	978	1165	1360	1563
	Amps (A)			1.37	1.59	1.82	2.07	2.33



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60HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	475	705	992	1343	1765	2263	2846
	Power Input (W)	490	593	697	804	915	1031	1153
	Amps (A)	0.93	1.04	1.17	1.3	1.45	1.62	1.8
40	Refrig. Capacity (Watt)		557	804	1108	1475	1912	2426
	Power Input (W)		597	720	846	975	1110	1251
	Amps (A)		1.06	1.21	1.36	1.53	1.72	1.91
50	Refrig. Capacity (Watt)			626	884	1197	1573	2018
	Power Input (W)			721	868	1020	1176	1339
	Amps (A)			1.22	1.4	1.6	1.8	2.02
60	Refrig. Capacity (Watt)				682	943	1259	1636
	Power Input (W)				867	1043	1224	1412
	Amps (A)				1.41	1.63	1.86	2.1

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60HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	475	705	992	1343	1765	2263	2846
	Power Input (W)	490	593	697	804	915	1031	1153
	Amps (A)	0.93	1.04	1.17	1.3	1.45	1.62	1.8
40	Refrig. Capacity (Watt)		557	804	1108	1475	1912	2426
	Power Input (W)		597	720	846	975	1110	1251
	Amps (A)		1.06	1.21	1.36	1.53	1.72	1.91
50	Refrig. Capacity (Watt)			626	884	1197	1573	2018
	Power Input (W)			721	868	1020	1176	1339
	Amps (A)			1.22	1.4	1.6	1.8	2.02
60	Refrig. Capacity (Watt)				682	943	1259	1636
	Power Input (W)				867	1043	1224	1412
	Amps (A)				1.41	1.63	1.86	2.1

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