



tecumseh

WINAJ9513Z-TZ

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

Condensing unit

HWN9513Z-TZ0F6HA

M-HBP

R-404A / R-448A / R-449A / R-452A

Voltage Code : TZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)	
		Watts	BTU/h
R-452A	50HZ / 60HZ	2252 / 2643	7680 / 9012
R-404A	50HZ / 60HZ	2345 / 2750	7998 / 9378
R-448A	50HZ / 60HZ	2077 / 2441	7083 / 8323
R-449A	50HZ / 60HZ	2078 / 2441	7085 / 8325

(*) Operating conditions ARI_90F : Dew / T°Ambient 90°F / T°Evap 20°F / T°Return gas temp. 65°F / T°Subcooling 5°F



*Non-contractual picture

General

Condensing Unit Type	OUTDOOR
Family Condensing Unit	Wintsys
Design Ambient Temp °C (°F)	+43°C / +110°F
Evaporating Temp. Range	-25°C to 15°C (-13°F to 59°F)

Mechanical

Fan Diameter	360 mm
Fan Qty	1
Fan Technology	AC/PSC Technology
Condenser Technology	Fin and Tube
Condensing Unit IP	IPX4

Electrical

Current RLA 50Hz (A)	2.8
Current RLA 60Hz (A)	3.1

Dimensions

Weight	64.2 kg (141 lb)
Length	940 mm (37 in)
Width	655 mm (25.8 in)
Height	710 mm (28 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	3/8 in (9.52mm)

Certificates



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



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Conditions DEW

Return gas temp. : 65 °F
Subcooling : 5 °F

50HZ R-452A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5444	6892	8511	10294	12230	14304
	Power Input	(W)	881	990	1106	1230	1360	1499
	Amps	(A)	1.93	2.07	2.23	2.39	2.57	2.77
	Condensing	(°F)	100	104	107	111	115	119
100	Refrig. Capacity	(Btu/h)	4806	6131	7598	9201	10932	12780
	Power Input	(W)	907	1025	1152	1286	1430	1583
	Amps	(A)	1.95	2.12	2.29	2.48	2.68	2.89
	Condensing	(°F)	110	113	116	120	124	128
115	Refrig. Capacity	(Btu/h)	3847	4991	6232	7568	8997	10515
	Power Input	(W)	940	1071	1213	1365	1528	1701
	Amps	(A)	1.98	2.18	2.38	2.59	2.82	3.06
	Condensing	(°F)	124	127	130	134	137	141

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60HZ R-452A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6452	8115	9951	11950	14097	16373
	Power Input	(W)	1081	1224	1376	1536	1708	1893
	Amps	(A)	1.97	2.15	2.34	2.54	2.77	3.02
	Condensing	(°F)	101	104	108	112	116	120
100	Refrig. Capacity	(Btu/h)	5736	7278	8962	10783	12729	14785
	Power Input	(W)	1107	1264	1428	1601	1785	1980
	Amps	(A)	2	2.2	2.4	2.63	2.87	3.13
	Condensing	(°F)	110	113	117	120	124	128
115	Refrig. Capacity	(Btu/h)	4652	6009	7464	9016	10662	12395
	Power Input	(W)	1128	1309	1496	1690	1893	2107
	Amps	(A)	2.02	2.25	2.48	2.73	3	3.28
	Condensing	(°F)	124	127	130	133	137	140



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50HZ R-404A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5765	7214	8818	10563	12431	14403
	Power Input	(W)	921	1030	1145	1266	1393	1526
	Amps	(A)	2.01	2.15	2.3	2.46	2.64	2.82
	Condensing	(°F)	99	102	106	110	114	118
100	Refrig. Capacity	(Btu/h)	5093	6414	7858	9415	11070	12808
	Power Input	(W)	950	1068	1194	1326	1465	1611
	Amps	(A)	2.04	2.2	2.37	2.55	2.74	2.94
	Condensing	(°F)	109	112	115	119	123	127
115	Refrig. Capacity	(Btu/h)	4088	5222	6432	7713	9058	10459
	Power Input	(W)	989	1120	1261	1410	1567	1733
	Amps	(A)	2.08	2.27	2.47	2.67	2.89	3.11
	Condensing	(°F)	123	126	129	133	136	140

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60HZ R-404A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	6828	8490	10303	12252	14316	16469
	Power Input	(W)	1130	1274	1425	1583	1751	1928
	Amps	(A)	2.05	2.23	2.42	2.62	2.84	3.07
	Condensing	(°F)	99.6	103	107	111	115	119
100	Refrig. Capacity	(Btu/h)	6075	7610	9264	11027	12882	14810
	Power Input	(W)	1161	1318	1481	1651	1830	2017
	Amps	(A)	2.09	2.28	2.49	2.71	2.94	3.19
	Condensing	(°F)	109	112	115	119	123	127
115	Refrig. Capacity	(Btu/h)	4940	6283	7700	9187	10734	12331
	Power Input	(W)	1191	1371	1556	1746	1943	2148
	Amps	(A)	2.12	2.34	2.58	2.82	3.07	3.34
	Condensing	(°F)	123	126	129	132	135	139



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

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Conditions DEW

Return gas temp. : 65 °F
Subcooling : 5 °F

50HZ R-448A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4871	6297	7920	9745	11773	14002
	Power Input	(W)	836	943	1059	1183	1315	1456
	Amps	(A)	1.83	1.98	2.13	2.3	2.49	2.69
	Condensing	(°F)	103	106	110	113	118	122
100	Refrig. Capacity	(Btu/h)	4307	5627	7119	8791	10646	12685
	Power Input	(W)	863	979	1105	1241	1387	1543
	Amps	(A)	1.86	2.03	2.2	2.39	2.6	2.82
	Condensing	(°F)	112	115	119	123	126	130
115	Refrig. Capacity	(Btu/h)	3470	4639	5942	7391	8994	10755
	Power Input	(W)	896	1027	1170	1325	1491	1670
	Amps	(A)	1.89	2.09	2.3	2.52	2.75	3
	Condensing	(°F)	127	130	133	136	140	143

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60HZ R-448A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5779	7424	9273	11330	13594	16061
	Power Input	(W)	1025	1166	1316	1477	1650	1835
	Amps	(A)	1.87	2.05	2.24	2.45	2.68	2.93
	Condensing	(°F)	103	107	110	114	118	123
100	Refrig. Capacity	(Btu/h)	5145	6686	8406	10313	12409	14694
	Power Input	(W)	1051	1206	1370	1544	1730	1929
	Amps	(A)	1.91	2.1	2.31	2.54	2.78	3.05
	Condensing	(°F)	113	116	119	123	127	131
115	Refrig. Capacity	(Btu/h)	4202	5588	7116	8800	10647	12661
	Power Input	(W)	1071	1252	1440	1638	1846	2067
	Amps	(A)	1.93	2.15	2.39	2.65	2.92	3.21
	Condensing	(°F)	126	129	132	136	139	143

* 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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Return gas temp. : 65 °F
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50HZ R-449A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4873	6299	7922	9748	11777	14009
	Power Input	(W)	836	943	1059	1183	1315	1456
	Amps	(A)	1.83	1.98	2.13	2.3	2.49	2.69
	Condensing	(°F)	103	106	110	113	118	122
100	Refrig. Capacity	(Btu/h)	4308	5628	7121	8794	10650	12692
	Power Input	(W)	863	979	1105	1241	1387	1543
	Amps	(A)	1.86	2.03	2.2	2.39	2.6	2.82
	Condensing	(°F)	112	115	119	123	126	130
115	Refrig. Capacity	(Btu/h)	3472	4641	5945	7395	8999	10763
	Power Input	(W)	896	1027	1170	1325	1491	1670
	Amps	(A)	1.89	2.09	2.3	2.52	2.75	3
	Condensing	(°F)	127	130	133	136	140	143

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60HZ R-449A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	5780	7426	9276	11334	13600	16069
	Power Input	(W)	1025	1166	1316	1477	1650	1835
	Amps	(A)	1.87	2.05	2.24	2.45	2.68	2.93
	Condensing	(°F)	103	107	110	114	118	123
100	Refrig. Capacity	(Btu/h)	5147	6688	8409	10317	12415	14702
	Power Input	(W)	1051	1206	1370	1544	1730	1929
	Amps	(A)	1.91	2.1	2.31	2.54	2.78	3.05
	Condensing	(°F)	113	116	119	123	127	131
115	Refrig. Capacity	(Btu/h)	4203	5590	7120	8805	10653	12670
	Power Input	(W)	1071	1252	1440	1638	1846	2067
	Amps	(A)	1.93	2.15	2.39	2.65	2.92	3.21
	Condensing	(°F)	126	129	132	136	139	143

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