



tecumseh

WINAJ9480Z-TZ

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

Condensing unit

HWN9480Z-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	1428 / 1678	4870 / 5723
R-404A	50HZ / 60HZ	1564 / 1838	5334 / 6267
R-448A	50HZ / 60HZ	1389 / 1634	4737 / 5571
R-449A	50HZ / 60HZ	1389 / 1634	4738 / 5572

(*) 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)	2.1
Current RLA 60Hz (A)	2.12

Dimensions

Weight	63.8 kg (141 lb)
Length	940 mm (37 in)
Width	655 mm (25.8 in)
Height	710 mm (28 in)
Ø Suction Tube	1/2 in (12.7mm)
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)	3338	4316	5472	6828	8407	10226
	Power Input	(W)	640	707	773	841	909	980
	Amps	(A)	1.69	1.76	1.84	1.93	2.02	2.12
	Condensing	(°F)	101	103	106	110	113	117
100	Refrig. Capacity	(Btu/h)	2998	3909	4987	6259	7747	9473
	Power Input	(W)	656	729	802	876	950	1027
	Amps	(A)	1.7	1.78	1.87	1.97	2.07	2.18
	Condensing	(°F)	109	112	114	117	121	124
115	Refrig. Capacity	(Btu/h)	2483	3293	4255	5400	6754	8342
	Power Input	(W)	672	757	841	924	1009	1094
	Amps	(A)	1.71	1.81	1.92	2.02	2.14	2.26
	Condensing	(°F)	123	125	127	129	132	135

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60HZ R-452A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3923	5075	6424	8004	9842	11968
	Power Input	(W)	771	864	956	1049	1144	1242
	Amps	(A)	1.67	1.77	1.88	2	2.13	2.27
	Condensing	(°F)	101	104	107	110	114	118
100	Refrig. Capacity	(Btu/h)	3532	4611	5876	7359	9091	11104
	Power Input	(W)	782	884	985	1086	1190	1296
	Amps	(A)	1.67	1.79	1.92	2.05	2.19	2.34
	Condensing	(°F)	110	112	115	118	121	125
115	Refrig. Capacity	(Btu/h)	2929	3896	5031	6368	7941	9785
	Power Input	(W)	789	906	1022	1138	1255	1374
	Amps	(A)	1.67	1.81	1.96	2.11	2.27	2.44
	Condensing	(°F)	122	124	127	130	133	136



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Conditions DEW

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

50HZ R-404A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3853	4812	5884	7062	8335	9688
	Power Input	(W)	668	734	799	865	930	997
	Amps	(A)	1.76	1.83	1.9	1.98	2.07	2.16
	Condensing	(°F)	99.5	102	105	108	112	116
100	Refrig. Capacity	(Btu/h)	3475	4366	5356	6439	7609	8854
	Power Input	(W)	686	759	830	902	973	1045
	Amps	(A)	1.77	1.85	1.94	2.02	2.12	2.22
	Condensing	(°F)	108	111	113	116	120	123
115	Refrig. Capacity	(Btu/h)	2906	3696	4563	5506	6524	7609
	Power Input	(W)	707	790	872	953	1033	1114
	Amps	(A)	1.79	1.89	1.98	2.09	2.19	2.3
	Condensing	(°F)	122	123	126	128	131	134

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60HZ R-404A

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	4532	5659	6906	8269	9743	11319
	Power Input	(W)	807	899	990	1080	1171	1265
	Amps	(A)	1.74	1.84	1.95	2.06	2.18	2.31
	Condensing	(°F)	100	103	106	109	113	117
100	Refrig. Capacity	(Btu/h)	4098	5153	6309	7565	8917	10358
	Power Input	(W)	820	921	1021	1120	1219	1320
	Amps	(A)	1.75	1.86	1.98	2.11	2.24	2.38
	Condensing	(°F)	109	111	114	117	120	124
115	Refrig. Capacity	(Btu/h)	3431	4377	5396	6491	7660	8903
	Power Input	(W)	831	948	1062	1174	1286	1400
	Amps	(A)	1.75	1.89	2.03	2.18	2.33	2.49
	Condensing	(°F)	121	123	126	128	131	135



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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)	3269	4213	5295	6519	7888	9398
	Power Input	(W)	609	674	741	810	880	952
	Amps	(A)	1.6	1.68	1.76	1.85	1.95	2.05
	Condensing	(°F)	103	106	109	112	116	120
100	Refrig. Capacity	(Btu/h)	2953	3842	4856	6004	7289	8712
	Power Input	(W)	624	697	770	845	922	1001
	Amps	(A)	1.62	1.7	1.8	1.89	2	2.12
	Condensing	(°F)	112	114	117	120	123	127
115	Refrig. Capacity	(Btu/h)	2482	3289	4205	5240	6402	7695
	Power Input	(W)	641	725	810	896	983	1072
	Amps	(A)	1.63	1.74	1.85	1.96	2.08	2.21
	Condensing	(°F)	125	127	129	132	134	138

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60HZ R-448A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3842	4957	6223	7649	9242	11006
	Power Input	(W)	731	822	914	1008	1104	1204
	Amps	(A)	1.58	1.69	1.8	1.93	2.06	2.2
	Condensing	(°F)	104	107	110	113	116	120
100	Refrig. Capacity	(Btu/h)	3475	4532	5725	7065	8560	10215
	Power Input	(W)	742	843	944	1047	1152	1261
	Amps	(A)	1.59	1.71	1.84	1.98	2.12	2.28
	Condensing	(°F)	112	115	118	121	124	127
115	Refrig. Capacity	(Btu/h)	2917	3886	4969	6180	7529	9025
	Power Input	(W)	750	867	983	1101	1221	1344
	Amps	(A)	1.6	1.74	1.89	2.05	2.21	2.39
	Condensing	(°F)	125	127	129	132	135	138

* 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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Conditions DEW

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)	3270	4214	5297	6521	7890	9402
	Power Input	(W)	609	674	741	810	880	952
	Amps	(A)	1.6	1.68	1.76	1.85	1.95	2.05
	Condensing	(°F)	103	106	109	112	116	120
100	Refrig. Capacity	(Btu/h)	2954	3843	4858	6006	7292	8716
	Power Input	(W)	624	697	770	845	922	1001
	Amps	(A)	1.62	1.7	1.8	1.89	2	2.12
	Condensing	(°F)	112	114	117	120	123	127
115	Refrig. Capacity	(Btu/h)	2483	3291	4207	5243	6405	7699
	Power Input	(W)	641	725	810	896	983	1072
	Amps	(A)	1.63	1.74	1.85	1.96	2.08	2.21
	Condensing	(°F)	125	127	129	132	134	138

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60HZ R-449A*

Ambient	Evaporating	(°F)	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3843	4958	6225	7652	9246	11011
	Power Input	(W)	731	822	914	1008	1104	1204
	Amps	(A)	1.58	1.69	1.8	1.93	2.06	2.2
	Condensing	(°F)	104	107	110	113	116	120
100	Refrig. Capacity	(Btu/h)	3476	4533	5726	7067	8563	10220
	Power Input	(W)	742	843	944	1047	1152	1261
	Amps	(A)	1.59	1.71	1.84	1.98	2.12	2.28
	Condensing	(°F)	112	115	118	121	124	127
115	Refrig. Capacity	(Btu/h)	2918	3887	4971	6183	7533	9030
	Power Input	(W)	750	867	983	1101	1221	1344
	Amps	(A)	1.6	1.74	1.89	2.05	2.21	2.39
	Condensing	(°F)	125	127	129	132	135	138

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