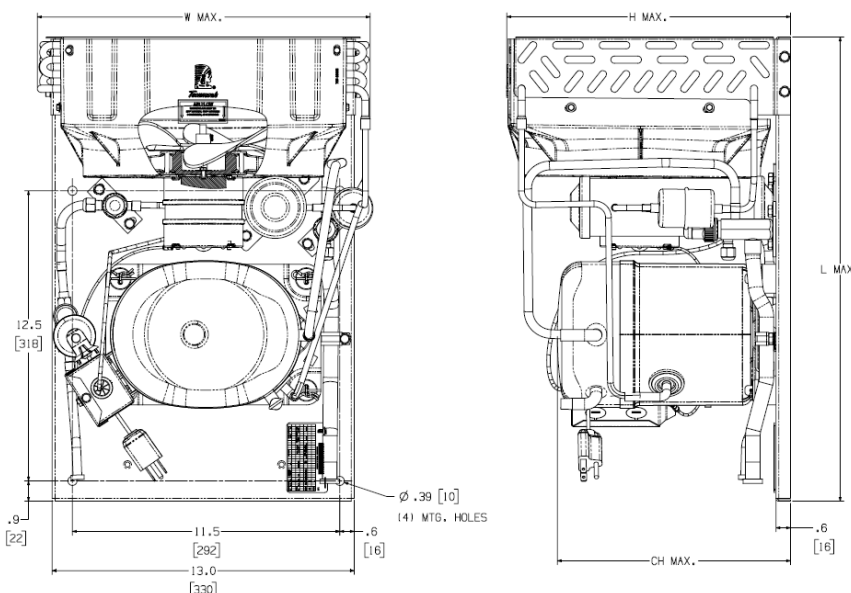




# Celseon® Indoor Condensing Unit Technical Data Sheet

*Tecumseh*

Model: AKA4472YAAD\*    BoM: 2G731-\*\*    R-134a / R-513A    1/2 HP



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AKA4472YAADA	20.0	14.3	12.1	10.1	3/8" S	1/4" S	N/A	230	17	53
AKA4472YAADG					5/8" S	3/8" S	3.2 lbs			54
AKA4472YAADH					5/8" S	3/8" S	N/A			53
AKA4472YAADK					3/8" S	1/4" S	N/A			53
AKA4472YAADC					5/8" S	3/8" S	3.2 lbs			54
AKA4472YAADS					5/8" S	3/8" S	N/A			53
AKA4472YAADJ					5/8" S	3/8" S	3.2 lbs			54
AKA4472YAADP					5/8" S	3/8" S	3.2 lbs			54

\* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting  
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

Evaporator T,		R-134a Performance											
		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
20	18.4	4913	790	105	4426	788	114	3931	795	122	3469	792	131
25	22.1	5477	846	108	4959	857	117	4423	863	123	3935	862	133
30	26.1	6057	905	112	5501	928	120	4926	935	125	4396	938	136
35	30.4	6655	968	115	6054	1000	124	5439	1011	128	4850	1020	140
40	35.1	7269	1035	118	6616	1073	127	5963	1091	133	---	---	---
45	40.1	7899	1105	122	7187	1148	130	6497	1175	140	---	---	---
50	45.5	8546	1179	125	7769	1224	133	---	---	---	---	---	---
55	51.3	9210	1257	129	8361	1301	137	---	---	---	---	---	---

Performance @ 60Hz, Return Gas 40°F for 20°F and Below Evaporator and 65°F above 20°F Evaporator, Sub cooling 5°F

Evaporator T,		R-513A Performance											
		Ambient Temperatures											
		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
20	22.4	4553	900	109	4129	913	118	3705	926	127	3281	939	136
25	26.4	5116	947	112	4638	966	121	4160	985	130	3682	1003	139
30	30.6	5654	1002	115	5122	1027	124	4589	1051	133	4057	1075	141
35	35.2	6167	1065	119	5580	1095	127	4994	1125	136	4408	1154	144
40	40.1	6655	1136	122	6014	1171	130	5374	1206	139	4734	1241	147
45	45.4	7117	1214	126	6423	1255	134	5729	1296	142	5035	1336	150
50	51.0	7555	1300	130	6807	1347	138	6059	1393	146	5310	1439	154
55	57.1	7968	1394	134	7166	1446	141	6363	1498	149	5561	1549	157

Performance @ 60Hz, Return Gas 40°F for 20°F and Below Evaporator and 65°F above 20°F Evaporator, Sub cooling 5°F

### Specifications/ Parts:

<b>Unit Model</b>	<b>AKA4472YAADA</b>
<b>Unit Bill of Material</b>	<b>2G731-09</b>
Refrigeration Range	20° F to 55° F
Design Pressure Low	150
Design Pressure High	450
Nominal Volts-Hz-Ph	115/60/1
Voltage Range	103 to 127
Min. Circuit Ampacity	15.0
Max. Fuse Size (amps)	25
Compressor Model	AKA4476YXA
Comp. Bill of Material	AK169AT-037-J7
Compressor RLA/LRA	11.3/58.8
Overload	8300MRAG17
Relay	8200EMBJ98
Run Capacitor	N/A
Start Capacitor	85PS125D59
Fan Motor	810-10097
Fan Motor RLA	.85
Fan Blade	515-10003
Fan Shroud/Guard Combo	707-00005
Condenser	506-10008
Unit Drawing	DGU1970-01
Wiring Diagram	91266-01
Replacement Kit: Relay	K71-02
Replacement Kit: O/L	K90-23
Replacement Kit: St. Cap	K146-52
<b>Unit Model</b>	<b>AKA4472YAADG</b>
<b>Unit Bill of Material</b>	<b>2G731-19</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56660

<b>Unit Model</b>	<b>AKA4472YAADH</b>
<b>Unit Bill of Material</b>	<b>2G731-29</b>
Liquid Valve	56659
Suction Valve	56660
<b>Unit Model</b>	<b>AKA4472YAADK</b>
<b>Unit Bill of Material</b>	<b>2G731-39</b>
Power Cord	85106-14
<b>Unit Model</b>	<b>AKA4472YAADC</b>
<b>Unit Bill of Material</b>	<b>2G731-59</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56660
Power Cord	85106-14
<b>Unit Model</b>	<b>AKA4472YAADS</b>
<b>Unit Bill of Material</b>	<b>2G731-69</b>
Liquid Valve	56659
Suction Valve	56660
Power Cord	85106-14
<b>Unit Model</b>	<b>AKA4472YAADJ</b>
<b>Unit Bill of Material</b>	<b>2G731-79</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56660
Filter Drier	71116
Sight Glass	70084
<b>Unit Model</b>	<b>AKA4472YAADP</b>
<b>Unit Bill of Material</b>	<b>2G731-89</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56660
Power Cord	85106-14
Filter Drier	71116
Sight Glass	70084

