



*Tecumseh*

# Celseon® Air Cooled Condensing Unit

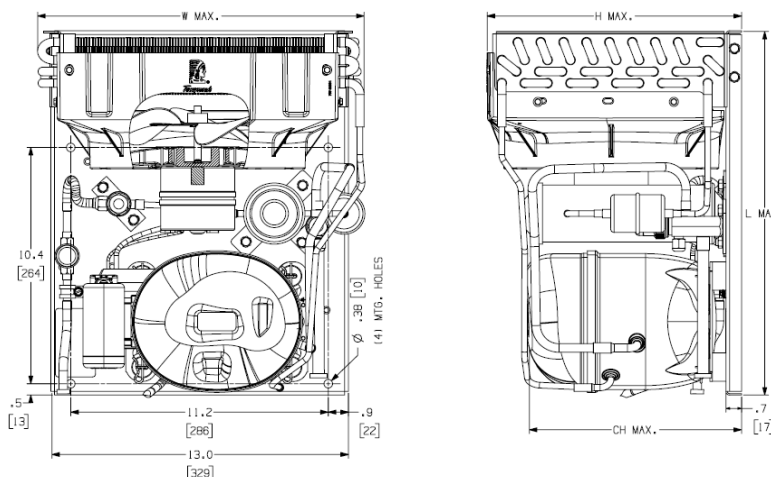


Model: AE4456Y-AA1CD\*

BoM: 2G226-\*\*

R-134a

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.
AE4456Y-AA1CDA	16.0	14.3	11.1	9.3	3/8" S	1/4" S	N/A	185	9.5	39
AE4456Y-AA1CDG					1/2" S	3/8" S	2.9 lbs			41
AE4456Y-AA1CDH					1/2" S	3/8" S	N/A			39
AE4456Y-AA1CDK					3/8" S	1/4" S	N/A			39
AE4456Y-AA1CDC					1/2" S	3/8" S	2.9 lbs			41
AE4456Y-AA1CDS					1/2" S	3/8" S	N/A			39
AE4456Y-AA1CDJ					1/2" S	3/8" S	2.9 lbs			41
AE4456Y-AA1CDP					1/2" S	3/8" S	2.9 lbs			41

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

### Ambient Temperatures

Evaporator T,		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
5	9.3	2644	495	98	2434	509	107	2225	523	116	2015	537	125
10	12.1	2973	527	100	2738	543	109	2503	559	118	2268	576	127
15	15.3	3316	560	102	3055	579	111	2794	597	120	2533	616	130
20	18.6	3671	596	105	3385	617	114	3098	637	123	2811	658	132
25	22.3	4039	633	107	3727	656	116	3414	679	125	3101	702	134
30	26.3	4420	672	110	4082	697	119	3743	722	128	3405	748	137
35	30.6	4814	712	113	4449	740	122	4085	767	131	3721	795	140
40	35.2	5220	754	116	4830	784	125	4440	814	134	4049	844	143
45	40.2	5639	798	120	5223	830	129	4807	862	137	---	---	---
50	45.6	6070	843	123	5629	878	132	5187	912	141	---	---	---
55	51.4	6515	890	127	6047	927	136	---	---	---	---	---	---

### 60 Hz Performance

Return gas temp 40°F below 20°F evaporator,  
and 65°F above 20° evap, 5°F sub cooling

**Specifications/ Parts:**

<b>Unit Model</b>	<b>AE4456Y-AA1CDA</b>
<b>Unit Bill of Material</b>	<b>2G226-09</b>
Refrigeration Range	5 F to 55° F
Design Pressure Low	150
Design Pressure High	450
Nominal Volts-Hz-Ph	115/60/1
Voltage Range	103-127
Min. Circuit Ampacity	14.8
Max. Fuse Size (amps)	25
Compressor Model	AE4456Y-AA1C
Comp. Bill of Material	AE1165E-214-J7
Compressor RLA/LRA	11.5/44.5
Overload	830-10129
Relay	RP7708-ZR
Run Capacitor	N/A
Start Capacitor	85PS165C99
Fan Motor	810-10095
Fan Motor RLA	.38
Fan Blade	515-10002
Fan Shroud/Guard Combo	707-00004
Condenser	506-10035
Unit Drawing	DGU1972-02
Wiring Diagram	91266-01
Replacement Kit: Relay	K71-49
Replacement Kit: O/L	K90-70
Replacement Kit: St. Cap	K146-28

<b>Unit Model</b>	<b>AE4456Y-AA1CDG</b>
<b>Unit Bill of Material</b>	<b>2G226-19</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56663
<b>Unit Model</b>	<b>AE4456Y-AA1CDH</b>
<b>Unit Bill of Material</b>	<b>2G226-29</b>
Liquid Valve	56659
Suction Valve	56663
<b>Unit Model</b>	<b>AE4456Y-AA1CDK</b>
<b>Unit Bill of Material</b>	<b>2G226-39</b>
Power Cord	85106-22
<b>Unit Model</b>	<b>AE4456Y-AA1CDC</b>
<b>Unit Bill of Material</b>	<b>2G226-59</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56663
Power Cord	85106-22
<b>Unit Model</b>	<b>AE4456Y-AA1CDS</b>
<b>Unit Bill of Material</b>	<b>2G226-69</b>
Liquid Valve	56659
Suction Valve	56663
Power Cord	85106-22
<b>Unit Model</b>	<b>AE4456Y-AA1CDJ</b>
<b>Unit Bill of Material</b>	<b>2G226-79</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56663
Filter Drier	71116
Sight Glass	70084
<b>Unit Model</b>	<b>AE4456Y-AA1CDP</b>
<b>Unit Bill of Material</b>	<b>2G226-89</b>
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56663
Power Cord	85106-22
Filter Drier	71116
Sight Glass	70084

## Electrical Diagram Page 3

