



# Tecumseh

## Performance Data Sheet

### AED4430YXU

### General Information

<b>Model</b>	AED4430YXU	<b>Refrigerant</b>	R-134a
<b>Test Condition</b>	Tecumseh Europe	<b>Performance Test Voltage</b>	100V ~ 50HZ
<b>Return Gas</b>	-6.7°C (20°F) SUPERHEAT	<b>Motor Type</b>	CSIR

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-6.7	Watts (Capacity)	631	534	438	341
	Watts (Power)	262	273	283	293
	Amps	4.31	4.40	4.49	4.58
-5	Watts (Capacity)	682	580	478	376
	Watts (Power)	267	280	292	305
	Amps	4.34	4.45	4.56	4.67
0	Watts (Capacity)	851	732	612	492
	Watts (Power)	280	300	320	339
	Amps	4.38	4.56	4.74	4.92
5	Watts (Capacity)	1050	908	768	628
	Watts (Power)	290	318	347	375
	Amps	4.39	4.65	4.92	5.18
7.2	Watts (Capacity)	1140	994	844	695
	Watts (Power)	293	326	359	391
	Amps	4.39	4.69	5.00	5.30
10	Watts (Capacity)	1270	1110	947	785
	Watts (Power)	297	335	374	412
	Amps	4.37	4.73	5.09	5.45
15	Watts (Capacity)	1520	1340	1150	962
	Watts (Power)	301	351	401	451
	Amps	4.32	4.79	5.26	5.73

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.210729E+03	2.205866E+02	3.843035E+00	
C2	4.791708E+01	-2.544040E+00	-4.076509E-02	
C3	-1.198028E+01	1.978088E+00	1.784301E-02	

C4	6.820000E-01	-1.330000E-01	-1.460000E-03	
C5	-3.780000E-01	1.600000E-01	1.540000E-03	
C6	1.930000E-06	2.750000E-05	1.530000E-06	
C7	1.550000E-16	7.970000E-17	1.070000E-18	
C8	-4.560000E-03	2.610000E-03	2.730000E-05	
C9	1.510000E-06	6.700000E-08	7.820000E-09	
C10	1.370000E-17	1.740000E-17	2.780000E-19	

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature