



# Tecumseh

## Performance Data Sheet

### TPG1370YXA

### General Information

<b>Model</b>	TPG1370YXA	<b>Refrigerant</b>	R-134a
<b>Test Condition</b>	ASHRAE	<b>Performance Test Voltage</b>	115V ~ 60HZ
<b>Return Gas</b>	32.2°C (90°F) RETURN GAS	<b>Motor Type</b>	PTCS_CR

### Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-40	Btu/h	325	283	225	152
	Watts (Power)	69.1	70.1	67.0	59.4
	Amps	0.61	0.61	0.58	0.52
	Lb/h	3.90	3.52	2.84	1.87
-35	Btu/h	455	412	352	275
	Watts (Power)	81.2	83.5	81.9	75.7
	Amps	0.72	0.73	0.71	0.66
	Lb/h	5.51	5.10	4.39	3.40
-30	Btu/h	610	568	506	427
	Watts (Power)	94.0	98.4	99.0	95.1
	Amps	0.83	0.86	0.86	0.83
	Lb/h	7.50	7.06	6.32	5.31
-25	Btu/h	797	755	693	612
	Watts (Power)	107	114	118	117
	Amps	0.93	0.99	1.02	1.02
	Lb/h	9.91	9.44	8.68	7.66
-23.3	Btu/h	868	826	764	683
	Watts (Power)	111	119	124	125
	Amps	0.97	1.04	1.08	1.09
	Lb/h	10.8	10.4	9.59	8.57
-20	Btu/h	1020	978	916	834
	Watts (Power)	119	130	137	141
	Amps	1.04	1.13	1.20	1.23
	Lb/h	12.8	12.3	11.5	10.5
-15	Btu/h	1280	1240	1180	1100
	Watts (Power)	129	145	157	166
	Amps	1.14	1.27	1.38	1.45
	Lb/h	16.2	15.7	14.9	13.9
-10	Btu/h	1580	1550	1490	1410
	Watts (Power)	138	159	177	191
	Amps	1.22	1.41	1.56	1.68
	Lb/h	20.2	19.7	18.9	17.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.242514E+03	2.751729E+01	2.902437E-01	2.980386E+01
C2	8.201027E+01	-4.226020E+00	-3.110185E-02	1.145983E+00
C3	7.973186E+00	4.240920E+00	3.847476E-02	6.841531E-02
C4	1.099444E+00	-1.256440E-01	-8.695265E-04	1.453380E-02
C5	1.988636E-01	1.472984E-01	1.317306E-03	-5.779535E-04
C6	-1.617037E-01	-5.453767E-03	-9.558552E-05	-2.115189E-03
C7	5.983730E-03	-8.101166E-04	-4.616120E-06	7.060921E-05
C8	1.621952E-03	1.704393E-03	1.465543E-05	9.115012E-06
C9	-1.324849E-03	8.818045E-05	2.793639E-07	7.541910E-06
C10	2.212106E-04	-9.342936E-05	-4.107937E-07	6.982342E-06

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

Te = Evaporator Temperature

Tc = Condensing Temperature