Input per Heater

Resistance (avg)	18.6	ohm
Voltage	277.0	V
Amps (calc)	14.9	amps
Max Power	4,125	W
Power (%)	37.4%	
Power In per Heater	1,543	W/htr
Total Input	166,667	W
Amps * Power (%)	5.57	amps
Input Amps per phase	200.56	amps

Heater Count

Left Bank	24
Right Bank	24
Big Cats	4
Htr/Big Cat	15
Big Cats	60
Total Htrs	108

Input	166,667	W
COP	6.00	
Output	1,000,000	W
Target Output	1,000,000	W
Difference	-	W

Temperature In	40	degC
	104	degF
Temperature Out	105	degC
	221	degC

Boiling Temperature 100 degC

Flow (per Liter)

Density	1.00	kg/L	
Spec Heat of Water	4.179	J/g-degC	
unit conversions	0.00028	wh/j	
	1,000	1/k	
	1.161	Wh/kg-degC	10.0%
Heat to Boiling	69.7	Wh/L	
Heat of Vaporization	2,257.0	J/g	
unit conversions	0.00028	wh/j (1/3600)	
	1,000	1/k	
	626.94	W-hr/kg	89.6%
Heat Boiling	626.9	Wh/L	
Spec Heat of Steam	1.970	J/g-degC	
unit conversions	0.00028	wh/j	
	1,000	1/k	
	0.547	Wh/kg-degC	0.4%
Heat to Superheat	2.7	Wh/L	
			100.0%
Total Heat	699.3	Wh/L	

Flow

Total Flow	1,429.94	L/hr
Total Flow	23.83	lpm
Total Flow	0.22	lpm/htr
Conversion	3.78541	L/gal
	377.75	g/hr
	6.30	gpm
Flow per Heater	0.058	gpm

Density	1.00	kg/L
Mass Flow	1,429.94	kg/hr
Conversion	2.20462	lbm/kg
	3,152.47	lbm/hr
Mass Flow per Heater	29.19	lbm/hr

Single		29.19	lbm/hr	0.058 gpm	0.22 lpm	13.24 lph
	1	29.2	lbm/hr	0.058 gpm	0.22 lpm	13.24 lph
	4	116.8	lbm/hr	0.23 gpm	0.88 lpm	52.96 lph
	6	175.1	lbm/hr	0.35 gpm	1.32 lpm	79.44 lph
	9	262.7	lbm/hr	0.52 gpm	1.99 lpm	119.16 lph
	12	350.3	lbm/hr	0.70 gpm	2.65 lpm	158.88 lph
	15	437.8	lbm/hr	0.87 gpm	3.31 lpm	198.60 lph
	24	700.5	lbm/hr	1.40 gpm	5.30 lpm	317.76 lph
	27	788.1	lbm/hr	1.57 gpm	5.96 lpm	357.48 lph
	36	1,050.8	lbm/hr	2.10 gpm	7.94 lpm	476.65 lph
	60	1,751.4	lbm/hr	3.50 gpm	13.24 lpm	794.41 lph
	108	3,152.5	lbm/hr	6.30 gpm	23.83 lpm	1,429.94 lph

Flow In=50, Out=120 => 23.65 lpm 23.65 lpm

COP - by Feed meter	6.00	
Leak Rate (lmp)	2.10	gpm
COP [Penalty)	2.00	
COP Actual	4.000	33.3%
E-Cats Leaking	36.0	

Min Max

Pph 521 ~~3500~~ 3200

gpm 1.04 0.25

Max Amps @ 200