

Coolant pressure(bar)	155
Cont_pressure(bar)	1.01
Volume_Cont(m^3)	70970
Volume_coolant(m^3)	354
Heat added (J)	1.00E+11
Tsat(K)	617.7915516
T_amb(K)	300
Rel_Humiditiy	0.8
Cv_air(J/kg-K)	7.14E+02
uf(J/kg)	1603771.737
Mass_Coolant(kg)	210402.701
Sat_Vap_pressure(bar)	0.03567892
Vap_partial_Press (bar)	0.028543136
R_air(J/kg/-K)	287
Air_partial_pressure	0.981456864
Density_air	1.14E+00
Mass air(kg_	8.0899E+04
Density_vapour(kg/m^3)	0.020633226
Mass_vapour(kg)	1464.340047
Total_Mass_water(kg)	2.11867E+05
u_vapour(kj/kg)	2.41217E+03
U_Vapour(J)	3.53E+09
u_coolant(kJ/kg)	1603.771737
U_Coolant(J)	3.37E+11
U_air_Init (J)	1.73E+10
U_Init_Total(J)	3.583E+11
U_Init+Q (J)	4.583E+11
Assume_Tfinal(K)	417.3050434
U_air_final(J)	2.410E+10
U_water_steam mix	4.342E+11
Final vol_water_(m^3)	5.953E+01
Final vol_air_(m^3)	7.1264E+04
Final_Partial_pressure_air(Pa)	1.36E+05
Vap_partial_Press_final (bar)	4.077434237
Total Pressure(bar)	5.44E+00

Properties	Initial
Pressure(bar)	155
Tsat@	344.7915516
uf(kJ/kg)	1603.771737
hg(kJ/kg)	2774.627056
hfg(kJ/kg)	1170.855319
rhof(kg/m^3)	594.3579124
rhog(kg/m^3)	101.9249511
mul(Pa/s)	7.01947E-05
sigma(N/m)	0.004669083

Properties	Final
T_final(C)	144.3050434
vf(m^3/kg)	0.001084298
vg(m^3/kg)	0.454131433
v(m^3/kg)	3.366E-01
x_v	0.740675242
uf(kJ/kg)	607.2607882
ug(kJ/kg)	2553.758295
u(kJ/kg)	2.049372E+03
x_u	0.740874956
delx	0.000199715