EES Ver. 10.444: #0301: for use by Mechanical and Aerospace Engineering, Ohio State University - Columbus, OH

```
"Turbo"
"HW2 P5"
"Zhaoyi Jiang(.1364)"

"Inlet"
p1=7.8*convert(bar,pa)
c1=3[m/s]

"Exit"
c2=6[m/s]
p2=1*convert(bar,pa)
rho=1000[kg/m^3]
Q=0.148[m^3/s]
z1=0.8[m]
z2=0[m]
g=9.8[m/s^2]

p_dot=rho*Q*(p1/rho+0.5*c1^2+z1*g)-rho*Q*(p2/rho+0.5*c2^2+z2*g)
```

SOLUTION

Unit Settings: SI C Pa J mass deg

No unit problems were detected.