







Total work considered for efficiency: 0.000 J

Total heat considered for efficiency: 0.000 J

Efficiency (Work/Heat): NaN

End of stage 1: Constant energy and volume

Current Time [s]: 1.000

Avg Temperature Particles [K]: 300.000

Volume [m³]: 0.250

Internal pressure [Pa]: 10129.517

External pressure [Pa]: 9976.800

Total Energy [J]: 3741.508

Total Work (by System) [J]: 0.000

Total recorded work [J]: 0.000

Work during current stage [J]: 0.000

Total Heat (into System) [J]: 0.000

Total recorded heat [J]: 0.000

Heat during current stage [J]: 0.000

pV/nRT : 1.015

End of stage 2: Adiabatic expansion (end of experiment)

Current Time [s]: 2.000

Avg Temperature Particles [K]: 189.023

Volume [m³]: 0.505

Internal pressure [Pa]: 3376.037

External pressure [Pa]: 3156.000

Total Energy [J]: 2357.441

Total Work (by System) [J]: 1384.067

Total recorded work [J]: 0.000

Work during current stage [J]: 1384.067

Total Heat (into System) [J]: 0.000

Total recorded heat [J]: 0.000

Heat during current stage [J]: 0.000

pV/nRT : 1.084

#Carnot experiment file 2.0

#experimentFileTmp.txt

#Settings

Step size : 0.00005
Animation fps : 20
Reports per second : 100
Number of moles : 1.0
Number of particles : 15000
Particle mass : 28.0
Initial particle temperature : 300.0
Particle heat exchange rate : 100.0
Chamber width : 1.0
Chamber height : 1.0
Chamber depth : 1.0
Piston mass : 0.2
Initial heater temperature : 9976.8

#Scheduler

scheduler name : Constant energy and volume
scheduler duration : 1.0
schedule piston? : true
schedule heaters? : true
schedule pressure? : false
report heat? : false
report work? : false
piston mode : 1
chamber volume : 0.25
heater mode : 0
heater temperature : 300.0
heater rate : 100.0
pressure mode : 0
pressure : 30000.0

#Scheduler

scheduler name : Adiabatic expansion
scheduler duration : 1.0
schedule piston? : true
schedule heaters? : true
schedule pressure? : true
report heat? : false
report work? : false
piston mode : 0
chamber volume : 0.5
heater mode : 0
heater temperature : 300.0
heater rate : 100.0
pressure mode : 0
pressure : 3156.0