

Engineering Software

Copyright © 1996

P.O. Box 1180

Germantown, MD 20875

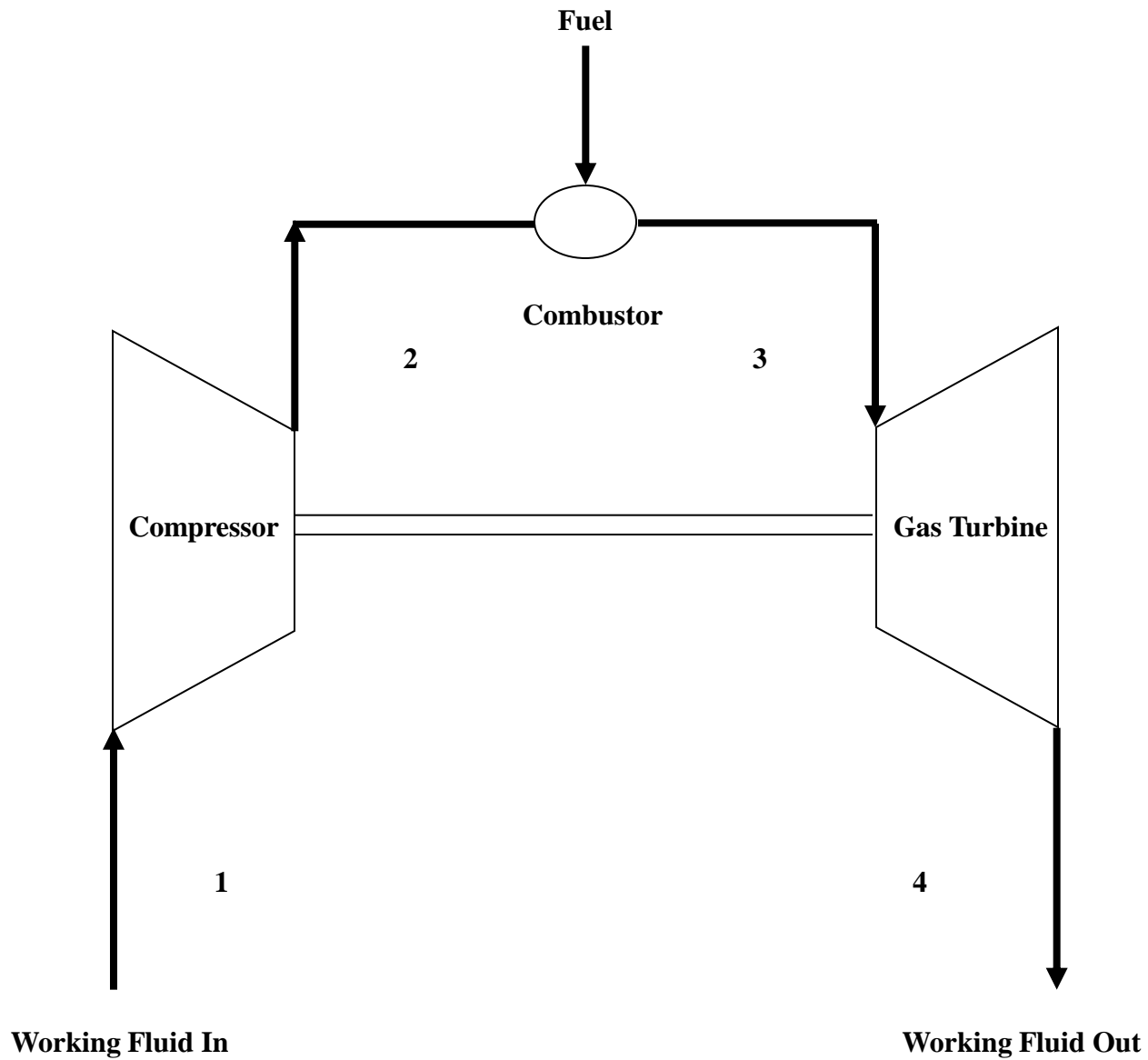
Phone/FAX: (301) 540-3605

E-Mail: info@engineering-4e.com

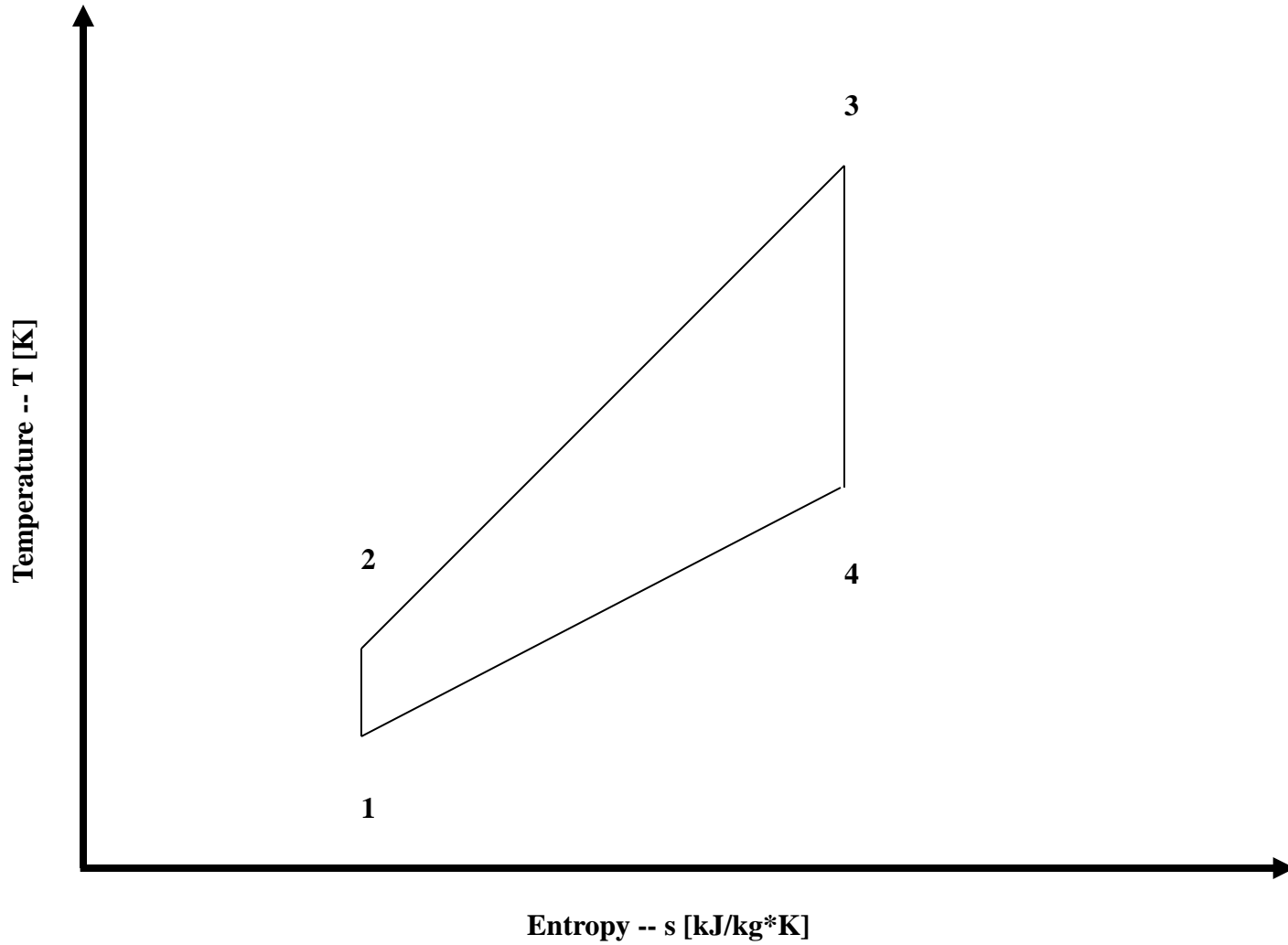
<http://www.engineering-4e.com>

Brayton Cycle (Gas Turbine) Analysis

Here are some of the basic Brayton Cycle (Gas Turbine) plots for power and propulsion applications.

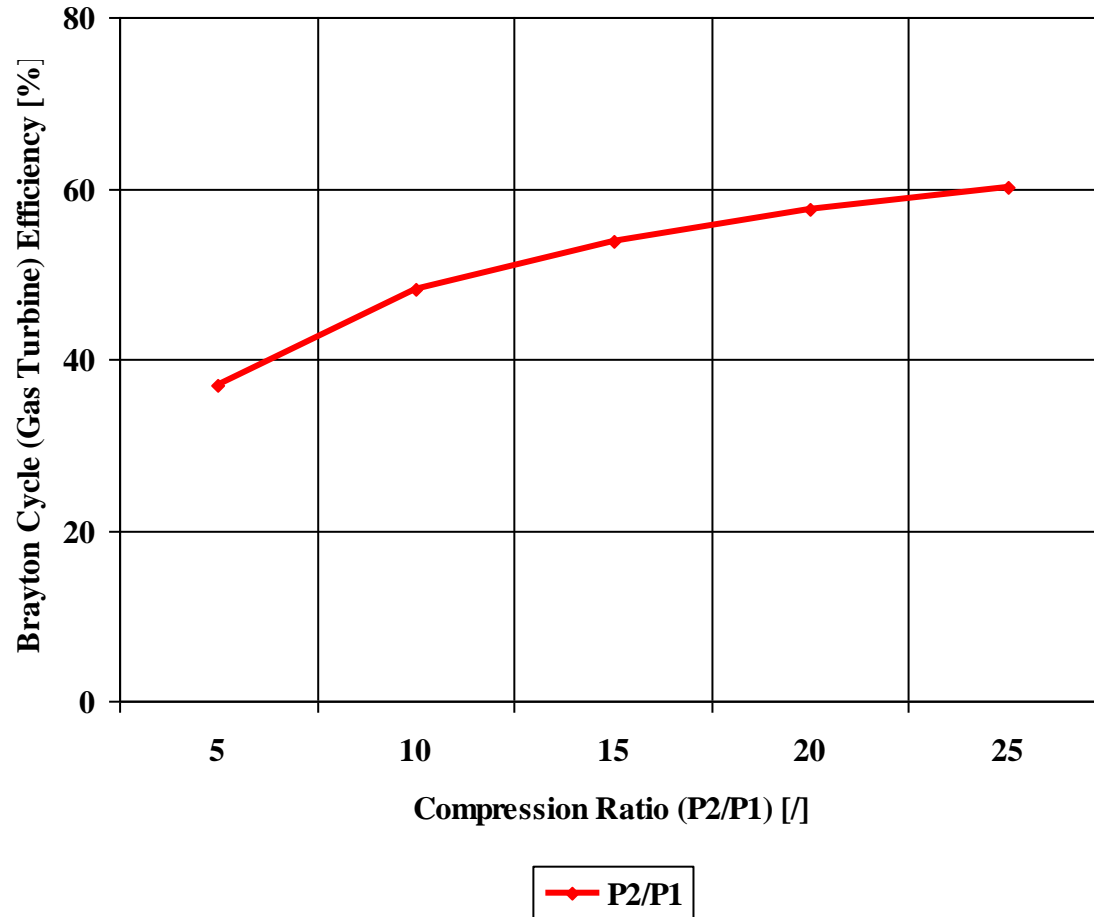


Brayton Cycle (Gas Turbine) Schematic Layout



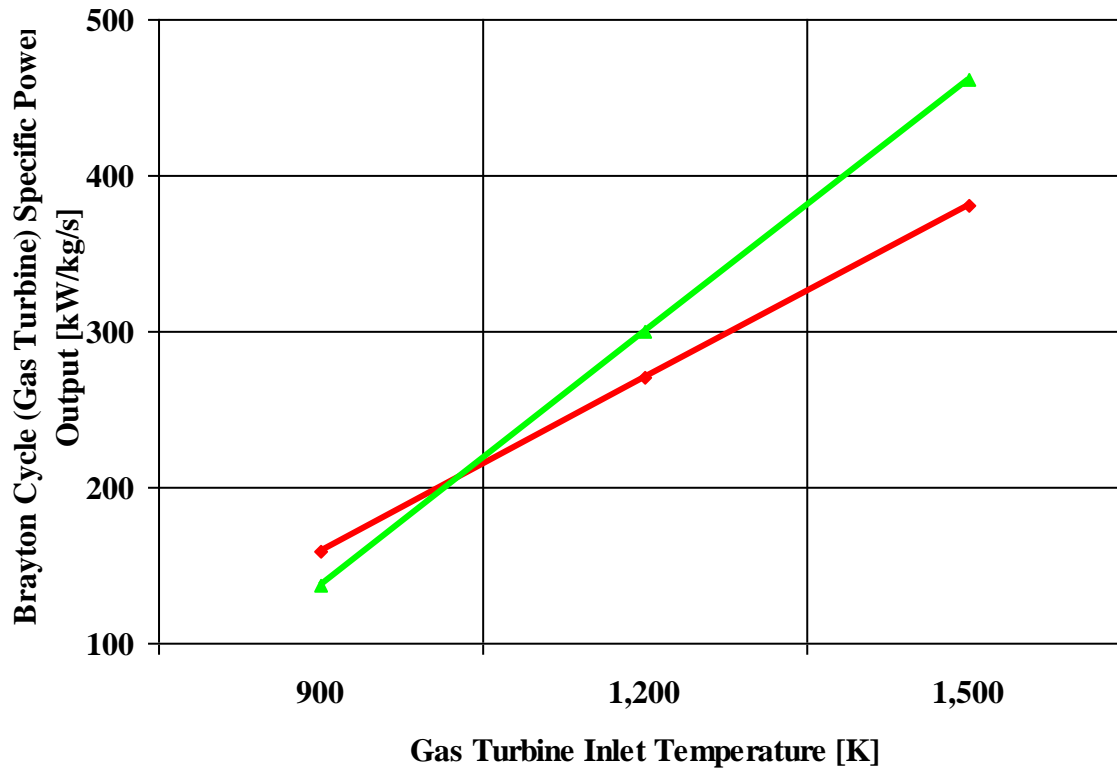
Brayton Cycle (Gas Turbine) $T-s$ Diagram

Brayton Cycle (Gas Turbine) Efficiency



Working Fluid: Air

Brayton Cycle (Gas Turbine) Specific Power Output



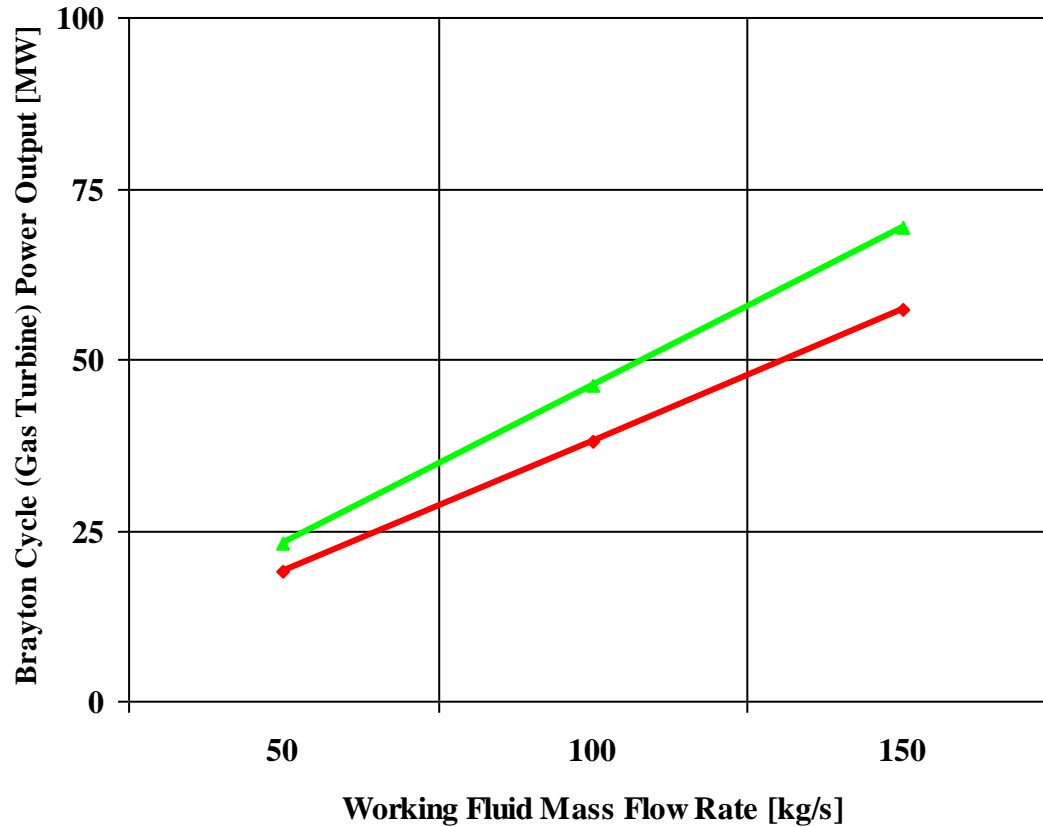
5 15

Compression Ratio (P2/P1) [/]

Working Fluid: Air

Compressor Inlet Temperature: 298 [K]

Brayton Cycle (Gas Turbine) Power Output

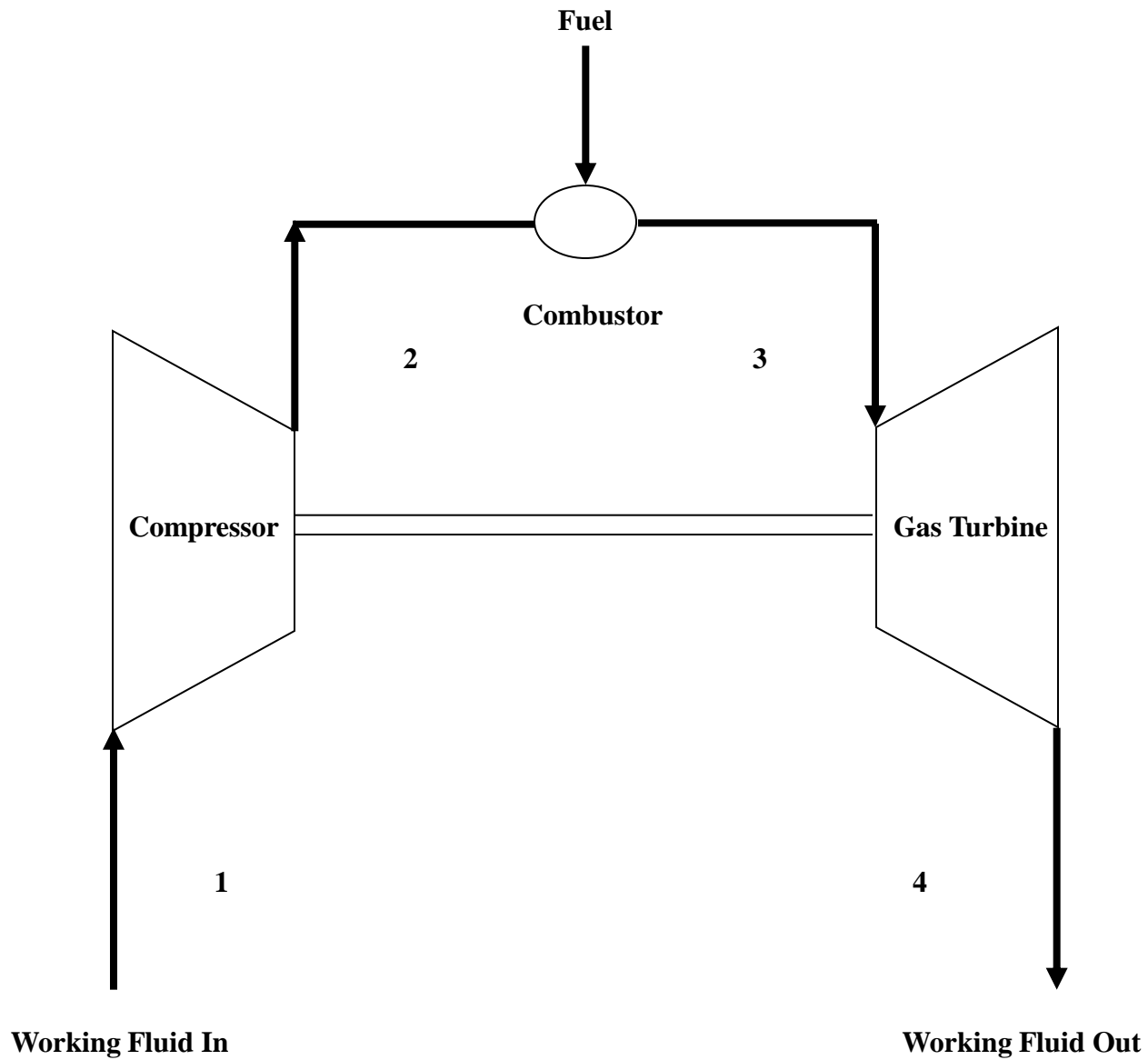


—◆— 5 —▲— 15

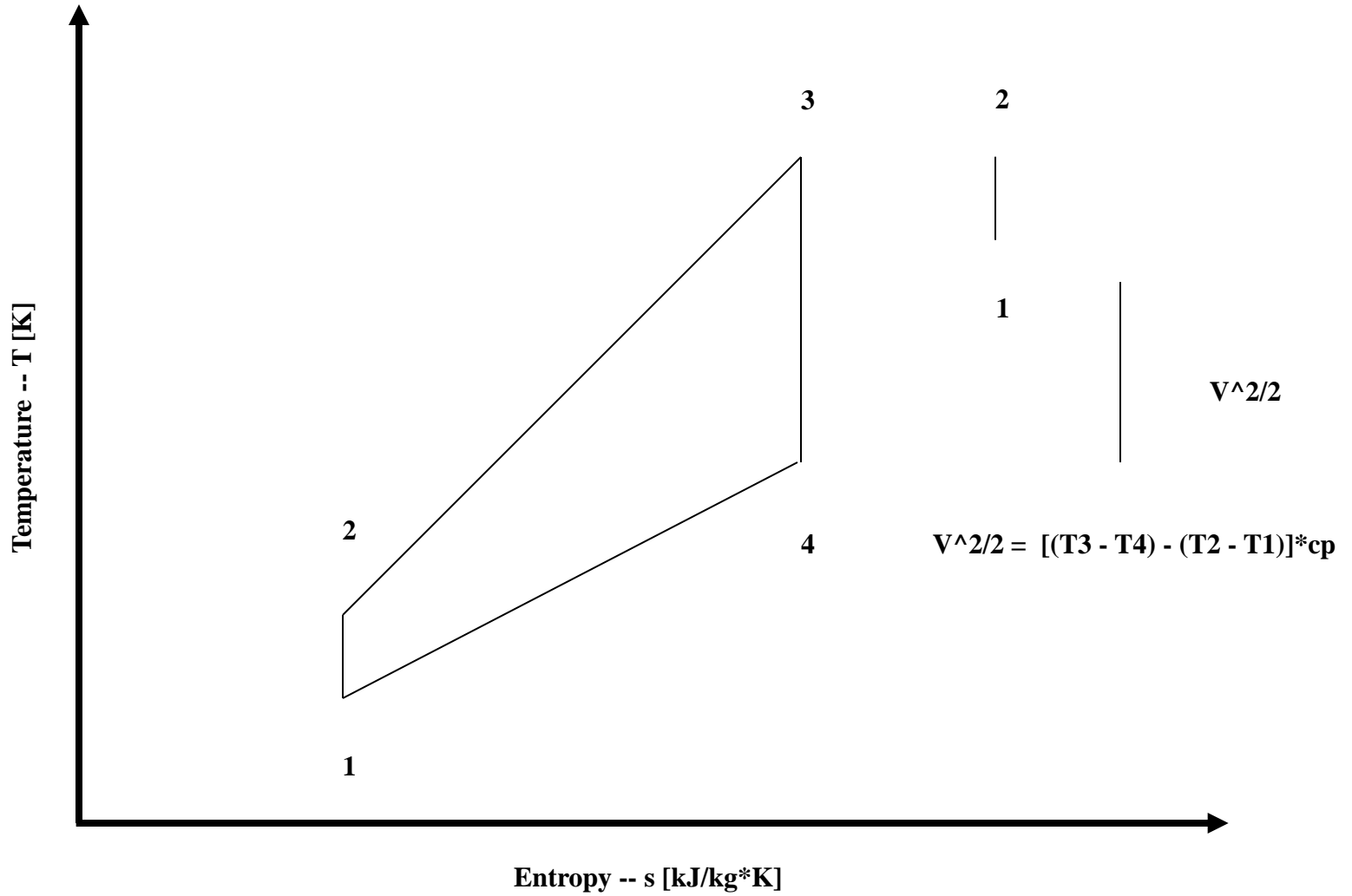
Compression Ratio (P_2/P_1) [/]

Working Fluid: Air

Compressor Inlet Temperature: 298 [K] -- Gas Turbine Inlet Temperature: 1,500 [K]

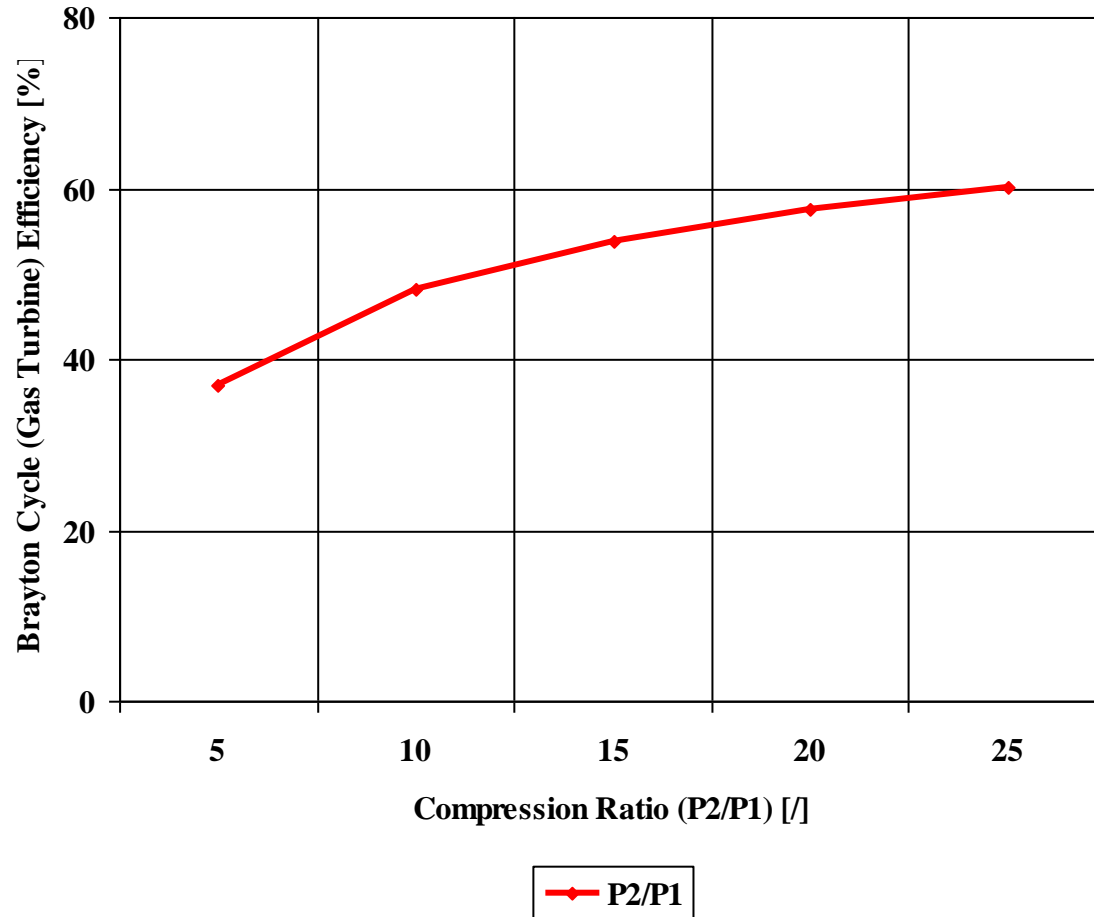


Brayton Cycle (Gas Turbine) Schematic Layout



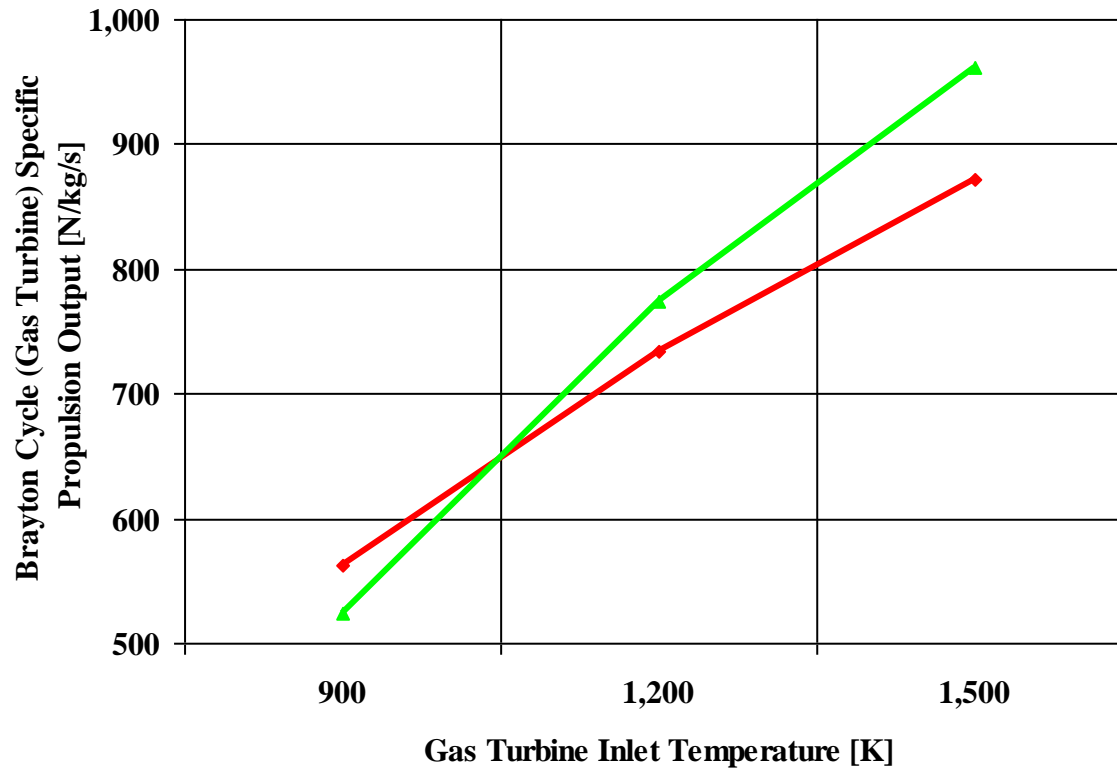
Brayton Cycle (Gas Turbine) T - s Diagram

Brayton Cycle (Gas Turbine) Efficiency



Working Fluid: Air

Brayton Cycle (Gas Turbine) Specific Propulsion Output



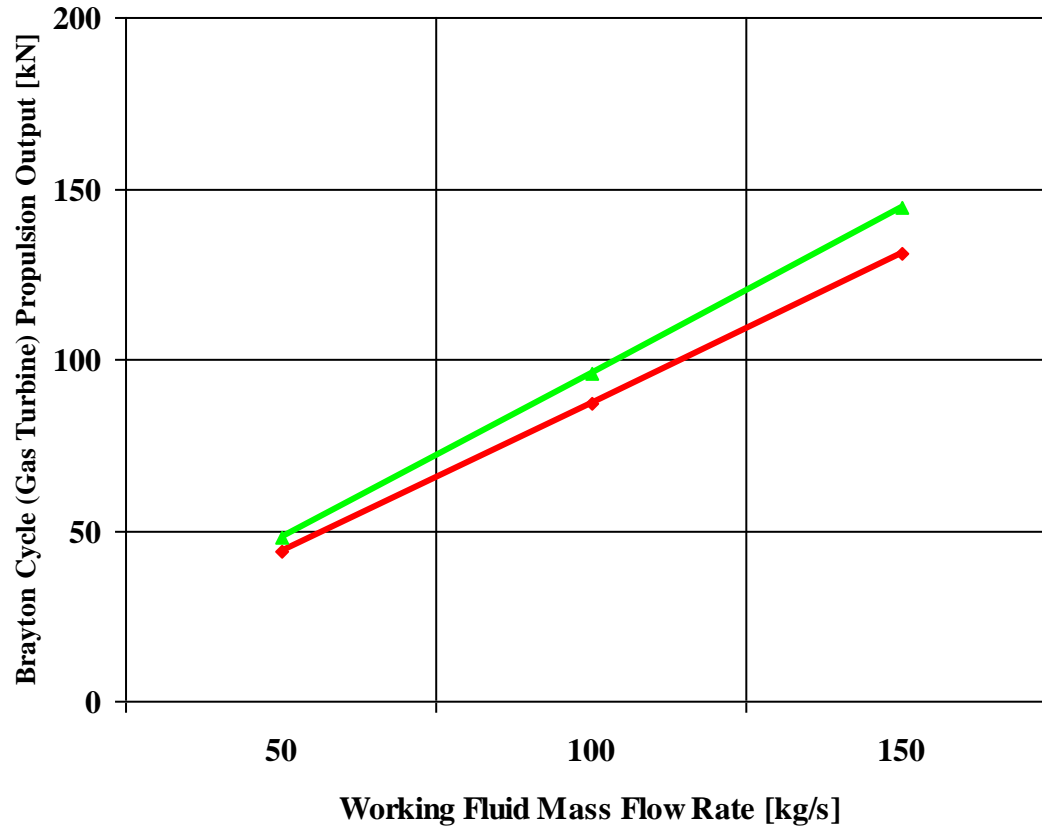
—◆— 5 —▲— 15

Compression Ratio (P_2/P_1) [/]

Working Fluid: Air

Compressor Inlet Temperature: 298 [K]

Brayton Cycle (Gas Turbine) Propulsion Output



—◆— 5 —▲— 15

Compression Ratio (P_2/P_1) [/]

Working Fluid: Air

Compressor Inlet Temperature: 298 [K] -- Gas Turbine Inlet Temperature: 1,500 [K]

Request for Free Information

To get a free evaluation copy of the **Engineering Software** product line, place an order, find out more about how you can profit or benefit from the product line, visit the **Engineering Software** web site at: <http://www.engineering-4e.com> or send an e-mail to info@engineering-4e.com or call **(301) 540-3605**.