

CHEN 425 Workshop 1

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Summary of Results for an Isentropic Compressor Under Different Conditions

1. Compressor with 147.0 psia outlet pressure:
 - (a) The power used by the compressor is 183.26 hp.
 - (b) The outlet temperature is 713.35°F.
2. When the compressor horsepower is 200 hp, the outlet pressure is 171.01 psia.
3. If the compressor temperature cannot exceed 640°F, the maximum allowable pressure is 120.14 psia and the maximum allowable power is 162.01 hp.