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Mod-01-Lec-12-Thermodynamics of Compressors Mechanical Engineering Thermodynamics – Lec-9, pt 2 of 5: Compressor Work  
**Thermodynamics: Steady Flow Energy Balance (1st Law), Compressor**

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2nd Law of thermodynamics - Principles of Refrigeration

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compressor, it brings with it water vapour.

When the air is compressed the pressure

and the temperature of the air goes up

and the result is that the compressed air

will have a relative humidity of about

100% and it will be warm. When the air

leaves the compressor it will cool down

and the water vapour will condense.

WaterAPPLIED THERMODYNAMICS

TUTORIAL 2 GAS

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air is air kept under a pressure that is

greater than atmospheric pressure. • In

industry, compressed air is so widely used

that it is often regarded as the fourth

utility, after electricity, natural gas and

water. Compressed air is used for many

purposes, including: • Pneumatics, the use

of pressurized gases to do work •

Pneumatic post, using capsules to move

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this material is discussed in the

Introduction, and necessary background

material is presented in the sections on

scalar and vector fields, conservative

fields, and conservative forces.Applied

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Compression process:  $T_2/T_1 = (P_2 /$

$P_1)^{\gamma-1/\gamma} \Rightarrow T_2 = T_1(P_2 / P_1)^{\gamma-1/\gamma} =$

$298(4)^{1.4-1/1.4} = 442.82 \text{ K}$  From

Isentropic efficiency of compressor:  $\eta_{is,c} =$

$(T_2S - T_1) / (T_2 - T_1) T_2 = T_1 + (T_2S -$

$T_1) / \eta_{is,c} = 298 + (442.82 - 298) / 0.80 T_2 =$

$479.025 \text{ K}$  Work of Compression  $C_p(T_2 -$

$T_1) = 1.005(479.025 - 298) = 181.93$

$\text{kJ/kg}$  This Work + Some Frictional Work =

HPT Work Expansion Work of HPT =

Compression Work/ $\eta_{m,shaft} C_p(T_3 - T_4)$

$= 181.93 / 0.98 = 923 - T_4 = 185.64 / 1$

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presents a systematic account of the

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physics that deals with heat, work, and

temperature, and their relation to energy,

radiation, and physical properties of

matter. The behavior of these quantities is

governed by the four laws of

thermodynamics which convey a

quantitative description using measurable

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process:  $T_2S/T_1 = (P_2 / P_1)^{\gamma-1/\gamma} \Rightarrow T_2S = T_1(P_2 / P_1)^{\gamma-1/\gamma} = 298(4)^{1.4-1/1.4} = 442.82 \text{ K}$  From Isentropic efficiency of compressor:  $\eta_{is,c} = (T_2S - T_1) / (T_2 - T_1)$   
 $T_2 = T_1 + (T_2S - T_1)/\eta_{is,c} = 298 + (442.82 - 298)/0.80$   
 $T_2 = 479.025 \text{ K}$   
 Work of Compression  $C_p(T_2 - T_1) = 1.005(479.025 - 298) = 181.93 \text{ kJ/kg}$  This Work + Some Frictional Work = HPT Work  
 Expansion Work of HPT = Compression Work/ $\eta_{m,shaft}$   $C_p(T_3 - T_4) = 181.93/0.98 = 923 - T_4 = 185.64/1 \dots$

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