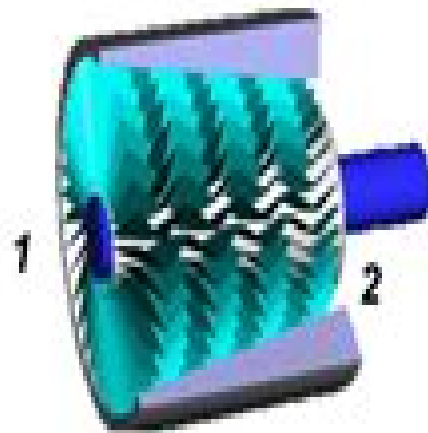


Conservation of Energy

(Specific form)



$$w = \text{Work} = p_2 v_2 - p_1 v_1 + w_{sh}$$

$$h = \text{Enthalpy} = e + pv$$

$$e = \text{Internal Energy}$$

$$q = \text{Heat Flow}$$

$$u = \text{velocity}$$

$$k = \text{Kinetic Energy} = \frac{u^2}{2}$$

$$v = \text{volume}$$

$$p = \text{pressure}$$

$$w_{sh} = \text{shaft work}$$

First Law of Thermodynamics:

$$e_2 - e_1 + k_2 - k_1 = q - w_{sh} - p_2 v_2 + p_1 v_1$$

$$e_2 + p_2 v_2 - e_1 - p_1 v_1 \left(\frac{u^2}{2} \right)_2 - (u^2/2)_1 = q - w_{sh}$$

$$h_2 + (u^2/2)_2 - h_1 - (u^2/2)_1 = q - w_{sh}$$

define: $h + (u^2/2) = h_t = \text{Total Enthalpy}$

$$h_{t2} - h_{t1} = q - w_{sh}$$

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