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Dr. Drosjack Received His B.S. Degree (Mechanical Engineering, 1970) From Carnegie-Mellon University, And His M.S. (1971) And Ph.D. (1974) Degrees (Mechanical Engineering) From The Ohio State University. He Is A Member Of ASME, The Vibration Institute, The Machinery Subcommittee Of The Ethylene Products Committee, Participates In 13th, 2024

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Also  $Dh = Cp dT = V dp$  And  $Pv = RT$ . Thus,  $Pout/Pin = Tout/Tin = Cp R (9)$  Determining



$T_{out} = T_{in}$  From Eq. (8) And Substituting Into Eq. (9) Yields  $P_{out} = \dot{m} C_p T_{in} (1 - \frac{W_2}{W_1})$  CpTin Cp  
R (10) Using  $C_p = 1 \text{ kJ/kg K}$ ,  $T_1 = 288 \text{ K}$  Gives  $P_{out} = 2.55 \text{ MW}$  The Device Studi  
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Inherently Unsteady Flow In The Machine Can Be Treated As Steady When Viewed In  
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