HP: C_2H_2 acetylene + $\frac{2.5}{\phi}(3.76N_2 + O_2)$ 0.2 2000 2500 $[\mathrm{kg/m^3}]$ h [kJ/kg]1000 0.15 2000 3 3 ϕ $\times 10^4$ $c_p \; [\mathrm{kJ/kg\text{-}K}]$ 1000 $e \, [\mathrm{kJ/kg}]$ $g \, [\mathrm{kJ/kg}]$ 500 -2.5 3 3 3 1000 s [kJ/kg-K]1.25 10 900 1.2 1.15 800 3 3 3 ϕ