

Abstract

- advanced (external) components available
- heat pump systems offer efficient and powerful possibility for supplementary heating
- performance of air/air- and coolant/air heat pump is similar at steady state conditions
- heat pump is far superior to hot gas cycle
- acceptable air temperatures only at low air flow rates
- quasi steady state simulation does not deliver sufficient results
- transient simulation much better
- thermal masses play important role for transient behavior of entire cycle