

NOMENCLATURE

C_p	Specific heat at constant pressure
C_v	Specific heat at constant volume
k	Specific heat ratio
R	Ideal gas constant
C_{pc}	Specific heat at constant pressure for cold air
C_{ph}	Specific heat at constant pressure for burned gas
t	Temperature ratio
r	Compression pressure ratio
η_c	Compression isentropic efficiency
η_t	Expansion isentropic efficiency
$(r_{opt})_w$	Pressure ratio corresponding to the maximum net work output
$(r_{max})_w$	Largest pressure ratio corresponding to where net work output becomes zero
$(r_{opt})_\eta$	Pressure ratio corresponding to the maximum efficiency
$(r_{max})_\eta$	Largest pressure ratio corresponding to where efficiency becomes zero

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