

NOMENCLATURE

P_e	Gross electric power kW	η_{eF}	Efficiency of the whole apparatus (CHEP) at maximum output power
η_T	Turbogas efficiency	η_{eO}	Max. efficiency of the whole apparatus (CHEP)
η_B	Heating boiler efficiency	η_e	National standard efficiency for electrical production
$E_{heat,min}$	Min heat @ max. turbogas kW	η_t	Standard efficiency for cogenerative heating boilers
P_{APU}	Net electrical power output kW	R	Cost of electric kW over cost of heating kW
P_{FAN}	Power absorbed by cold air fan kW	η_{tCHEP}	Thermal efficiency of the apparatus (CHEP)
P_H	Max heating power of boiler kW	P_{h_ave}	Average heating power demand kW
η_{Total}	Efficiency of the whole apparatus	H_{total}	Total heating energy per year kWh
$P_{heat,BOILER}$	Max boiler burner power kW	$T_{heating}$	Heating time per year h
η_H	Condensing heating boiler efficiency		