Example 15.1

Result

	СрН	CpS				
!CO2 !	41.649	41.377				
!H2O !	34.153	34.106				
!N2 !	29.381	29.36				
!02 ! :	30.473	30.405				
		S(kW/K)	%			
Furnace/boiler		587.11	82.2			
Turbine		84.65 11.9				
Condenser		41.69	5.8			
Pump		0.74	0.1			
Total		714.19 100.				
		W(kW/K)*10^-3		%		
Ideal		80.		27.3		
Furnace/boiler		175.05		59.8		
Turbine		25.24		8.6		

12.43

0.22

292.94

4.2

0.1

100.

Efficiency of the power plant is

27.3

Condenser

Pump