

Condenser Optimization in Steam Power Plant

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In this paper the effects of the condenser design parameters (such as turbine inlet conditions, turbine power and condenser pressure) on heat transfer area, cooling water flow-rate, condenser cost and specific energy generation cost are studied for surface type condenser. The results are given in the cost and area share, as diagrams.

Keywords: condensers, steam power plants, energy cost.

Introduction

The main purpose in steam power plant is to generate maximum power at high efficiency. The most effective way for reaching this aim is to use a condenser. Condensers increase the enthalpy drop, and turbine work, by lowering the turbine outlet pressure. The lower the pressure, the higher the efficiency and power are. Condensers can be classified in two groups: surface and direct contact. At present, while the first type is mostly used in power plants, the other is only used in special cases. In this paper we investigated the surface type condenser.

The principal cycle of the steam engines is Rankine Cycle. A schematic of a simple steam power plant with condenser and its h-s diagram are shown in Fig.1. Rankine Cycle is an ideal cycle where all the process take place as reversible. Actual cycle differs from ideal cycle because of some irreversibilities. Thermal efficiency of the actual cycle according to Fig.1 is:

$$\eta_{th} = (h_1 - h_2) / (h_1 - h_3) \quad (1)$$

and the turbine power:

$$P_t = w_t (h_1 - h_2) \eta_{th} \quad (kW) \quad (2)$$

where h is the enthalpy in (kJ/kg), w_t the steam mass flow rate in (kg/s) and η_{th} the mechanical efficiency of the turbine.

As seen in equations 1 and 2, to maximize the thermal efficiency and power, the enthalpy drop to the turbine must be increased. There are mainly two ways to

reach this aim. First one is to increase the turbine inlet temperature and pressure, the other one is lowering the turbine exit pressure, in other words to use a condenser. If the exit pressure is dropped from $0,1 \times 10^5$ Pa to $0,05 \times 10^5$ Pa the efficiency and power rise 7% approximately when the turbine inlet conditions remain constant.

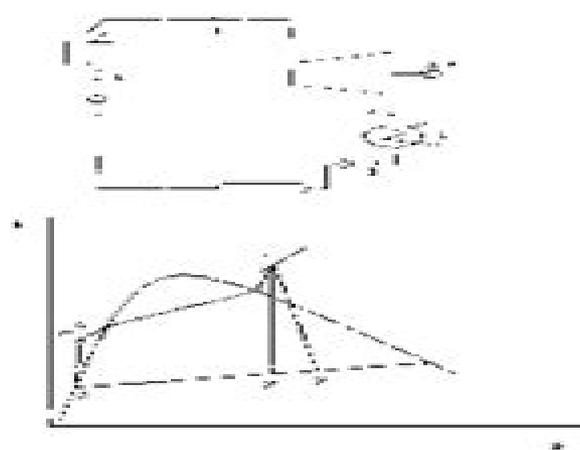


Fig.1. A schematic of a simple steam power plant and it's h-s diagram

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