

Summary

Coursework

discipline "Heat and power system"

Students of group PS-32

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On the theme: " The furnace fuel, regenerative
Reach of the hearth"

In the course work was designed furnace fuel passage pushing. Course work contained 64 pages of printed text, and one drawings A1.

Explanatory note consists of an introduction, thirteen chapters, list of references and contains four figures. In the introduction disclosed the essence of fuel, recuperative furnace with a hearth reach

The first section of the explanatory note elected composition of fuel calculated material balance, the number of products and the heat of combustion.

The second section provides the calculation of the duration of heating.

The third section was calculated internal dimensions of the oven.

The fourth section was selected lining of the furnace.

The fifth chapter provides the calculation of the external sizes oven.

In the sixth section was calculated heat balance of the furnace, the heat coming and its costs.

In the eighth chapter was calculated Techno-economic indicators such as efficiency furnace and conventional fuel.

In the ninth chapter was selected fuel burning device.

Elected nozzle Engineer carbine type STC-7, injector nozzle diameter 112 mm.

In the tenth chapter was designed heat exchanger.

In the eleventh chapter provides aerodynamic calculation oven.

In the twelfth chapter was designed chimneys.

In thirteen sections were chosen fan.

Keywords: PIR fuel, regenerative, Reach under.