

The invention relates to the agricultural machinery industry, in particular to a process and an installation for obtaining of cereals drying agent.

The process includes burning of the liquid fuel and feeding of the combustion products flow from the combustion chamber into the air flow sucked in from the environment by the fan of the chamber for cereals drying and mixing thereof. The air flow sucked in by the fan is formed of two parts. A part of the air is sucked in by the fan directly from the environment. The second part of the air is infiltrated from the environment through the reception confuser of the housing and the annular clearance formed between the combustion chamber and the housing. At the same time, the second part of the sucked in air cools the combustion chamber and it is compressed at the outlet of the housing confuser, forming a flow of combustion products enveloped by compressed air, which is fed through the open air annular clearance in the fan, where it is mixed with the first part of the sucked in air.

The installation for realization of the process contains a fan for air suction from the environment, a straight-flow combustion chamber with burner and a housing. The combustion chamber has its back end open for the outlet of the combustion products flow and it is installed into the frame, providing the possibility of displacement about the fan. Between the housing and the combustion chamber it is formed an air annular clearance. The combustion chamber is provided with a screen and a confuser, and the housing is provided with inlet and outlet confusers.

The result of the invention consists in reducing the pressure loss of the combustion products and sucked in air, in increasing the purity of the fed drying agent, increasing the reliability of the installation and in the possibility of regulating the clearance between the combustion chamber and the fan.

Claims: 2

Fig.: 3