97-0171

The invention relates to flour-and-cereals industry and may be applied for buckwheat hydrothermal treatment at enterprises of low productivity.

The process includes preheating of the chamber up to a temperature of 50…60°C. The buckwheat and water are advanced into the heated chamber. Further treatment thereof is carried out by contact heating into the closed chamber with continuous mixing of the mixture. Water evaporation and buckwheat steaming is carried out during 15…20 min. Buckwheat drying is carried out during 20…25 min. During the drying process the covers are maintained open, heating of buckwheat being continued with that. The final buckwheat humidity is of 13,5…14,0%.

The installation contains a cylindrical heating chamber and a furnace, divided by a plate and rigidly joined between them. The chamber has covers, blades unit, drive of rotation, unloading chute, drive installing and plate heating means. The blades are rigidly fixed to the hub at an angle of 30° about the plate surface. The lower blade edges are pointed at an angle of 30°. The hub fixes the blades in the position of contacting with the plate surface. The furnace is made in the form of a cylindrical body and it is rigidly fixed to the heating chamber plate. It includes a combustion chamber, an ash collecting tray with grid and door, a perforated feeder with baffle plate, a ventilating pipe, placed under the heating chamber plate.

The result consists in reducing the processing time, buckwheat uniform heating and considerable power saving.