

Technical University of Moldova

MD.5.

Title

DRYING PLANT FOR FRUIT AND VEGETABLES

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Description EN

The invention relates to the food industry, in particular to a drying plant for fruits and vegetables by applying three drying methods: convection drying, microwave application drying and CO₂ drying using microwave application, convection application or combining them . According to the invention, the drying plant for fruits and vegetables consists of: a housing on which the drying chamber to which a heat generator is mounted, and a centrifugal fan coupled to an electric motor, to which is connected an inverter ; a recycling channel is also connected to the drying chamber, which is adjusted to a condenser, which is connected with a centrifugal fan through an intermediate channel, which is provided with a nozzle; the microwave generator is mounted on the drying chamber and at the bottom there is the intermediate chamber in which a weighing machine is placed; a lid on which a CO₂ indicator and a CO₂ receiver are placed is also mounted in the lower part of the drying chamber; In the lower part of the installation, a processor for directing the microwave generator, a refrigeration plant, for directing the condenser via a pipe, is mounted in the housing; and a resistor for directing the heat generator; at the same time the plant is equipped with a CO₂ tank, which allows its supply via a hose.

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