

The invention relates to the technology of food microwave treatment by heating with the purpose of preparation, defrosting, drying, pasteurization, sterilization or microwave decomposition according to the known technology of microwave heating dielectric materials by introducing in the working chamber electromagnetic oscillations of the microwave band and the ventilating air stream. According to the invention, the following operations are included: electromagnetic oscillations are concentrated, so that the sizes of the transverse incision of the diagram for orientation of radiations were proportional to the corresponding sizes of the opposite wall of the working chamber, the cross sizes of the heated up sample are chosen proportional to the corresponding cross sizes of diagram of irradiation directing, and approximately three time less than the related sizes of the opposite wall covered from the inside with the ballast absorbent, and the ventilating air stream is preliminary warmed up by passing it in the channel created directly under the ballast absorbent.