

The invention concerns the heat-exchange apparatus - reactronic homogenizers for liquid and paste-like products, such as emulsions and suspensions. It may be used in pharmaceutical, chemical, food and other industries.

The use of homogenizer increases the efficiency of operation of a reactronic homogenizer and allows to crush the suspensions and to homogenize the components which are not blended.

The body with coaxial cylinders of stator and rotor with disks of stator and rotor is made of two disks connected with opposite disk by blades. The disk contains additional openings that by their dimensions, form and arrangement coincide with openings in stator disk. The openings in disks of stator and rotor are made with effective cross-section that equals to effective cross-section of slit openings on side surface of cylinders of rotor and stator.