

The invention relates to the wine-making and canning industries, namely to the sulphur dioxide aqueous solution obtaining.

The process for obtaining sulphur dioxide (SO₂) aqueous solution provides for the dosed dissolution of gaseous SO₂ in water, at the continuous circular agitation with a velocity of 20...65 rev./min during 30...60 min, rest of the obtained solution during 60...90 min and packing of the finished product, the dissolution being carried out into a hermetically sealed reservoir 75...80% filled with water of the volume and providing decrease of height of the formed at agitation whirl.

The installation for realization of the claimed process includes a cylindrical reservoir (1), placed onto a support (2), inside which it is mounted a shaft (4), onto which there are installed agitators (5) with double blades (6), equidistantly placed in three levels, the marginal agitators being parallel between them, and the middle one is placed at an acute angle with respect to the other ones, onto the lower end of the shaft there is installed a horizontally perforated bubbler (7) of stainless steel. Into the reservoir, parallel to the walls, there are installed four barriers-reflectors (15), and at the bottom of the reservoir there are mounted an inlet pipe (8) for gaseous SO₂, joined with the bubbler (7) and a SO₂ solution outlet pipe (16), the reservoir being equipped with a thermometer (17), a sampling valve (18), a level meter (22), and in the upper part with a water inlet pipe (19), an access hatch (21) and an electric motor (3); the installation also includes a decimal balance (13), a balloon (9) with liquefied SO₂ and a flowmeter (11).

The result consists in increasing the efficiency of the process for obtaining sulphur dioxide aqueous solution with a concentration of 5%

Claims: 2

Fig.: 1

