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The invention relates to the technology and equipment for wineries, namely to a process for gas contacting with a liquid component with batching and heating thereof and to a device for implementing the indicated process and may be used for oxygenation of strong wines.

The process for gas contacting with a liquid component with batching and heating thereof includes formation of the liquid component and gas flares, gas supply into the liquid component at its intersection with a multitude of gas jets in circulation regime. Heating of the liquid component is carried out before its batching and of the gas – after batching, the difference in temperature constituting 8…10°C. At the same time, the abovementioned processes are carried out concomitantly in the same device.

The device for gas contacting with a liquid component with batching and heating thereof includes a liquid component collecting capacity (21), a gas supply box (9) with inlet pipe (4), a supply pipe-line (1) with liquid component inlet pipe (3), a hollow vertical rod (2), placed coaxially with the supply pipe-line (1), onto the lower end of which there is fixed a conic perforated valve (5), a rotation module, consisting of a pair of gearwheels (12), one of which is connected by means of a groove (14) with the rod (2), and an electric motor (13) for rotation of the rod (2) and of the valve (5). Onto a portion of the rod, placed into the gas supply box (9), there are made holes, and the upper end of the rod by means of a boll-and-socket hinge (6) is joined with a drive (7), equipped with a pull-back spring (8). Onto the rod (2), placed into the gas supply box (9) and into the liquid component supply pipe-line (1), there are mounted blades (15), into the inlet pipe (4) there is installed a control gate valve (19), connected to a drive (20). The gas supply box (9) is equipped with an electric heater (17), and the inlet pipe (3) and the liquid component supply pipe-line (1) are enclosed into a mantle (16) with a thermal agent inlet branch pipe (30).

Claims: 2
Fig.: 2