

The invention relates to sugar production and can be used in the sugar solution refining with lime and carbon dioxide. A method for the defecosaturation of sugar solutions provides for diffusion juice heating, defecosaturation, settling, filtration and second saturation with carbonation gas from lime furnace. According to the invention the defecosaturation is performed in two stages. First stage of the defecosaturation is carried out with spent carbonation gas from the second saturation tank in spray mode, and the second stage of the defecosaturation is carried out in bubbling mode with carbonation gas from lime furnace. The technical result is in reducing of heat loss with spent carbonation gas and CO<sub>2</sub> emission into the atmosphere. Due to increased utilization of carbon dioxide the carbonation gas consumption for carbonation processes is significantly reduced, and as a result the consumption of limestone and fuel for carbonation gas producing is reduced.