

The invention relates to removal of sulfuric compounds from flue gases. A device has a receiver 12 for flue gases with nozzles 14 for scrubbing liquid that includes reagent. At beneath of receiver connector of scrubbing liquid is placed, this is divided into two pools 20 and 22. The pools are divided with separation wall 18 that goes out over the surface of scrubbing liquid and provides exchange of liquid between the pools. A pump device 26 pumps the scrubbing liquid from pool to nozzles. In the pool 20 oxidation device is installed, for increase of calcium sulfate output. Flue gases are first treated with scrubbing liquid with decreased content of reagent from the pool 20 and after that – with scrubbing liquid with increased content of reagent from pool 22. The scrubbing liquid gradually flows through separation wall 18 from pool 22 to the pool 20, at that amount of reagent in it decreases. Desired product is taken out from pool 20 and to pool 22 one adds fresh scrubbing liquid. The inventions promote decrease of overall dimensions of purification device.