Abstract (en)

The invention relates to an overflow dyeing system of atomized airflow dyeing machine and a method for wet processing thereof, wherein a filter I is coordinately configured between the main pump and the heat exchanger; an overflow nozzle is connected on the output tube of the heat exchanger through an overflow nozzle connection tube valve and placed above the airflow nozzle; an auxiliary pump is added on the tube of the main pump; a connection valve I and a connection valve II are respectively configured on the tubes of both ends of the auxiliary pump. The invention effectively saves electricity and provides solutions to the dyeing limitation of airflow dyeing machines. This invention has both the airflow dyeing system and the overflow dyeing system, which prevent polyester fabric wrinkling while being dyed in high-temperature air flow at 130°C and reduce electricity consumption by air blower during the process of airflow dyeing at high temperature. This invention saves energy and enlarges the application of dyeing machine.