

A column diffusion apparatus contains vertical cylindrical body with return blades and hollow shaft disposed inside it, on which shaft fixed are blades for transportation of the beet pulp, sieve for separation of diffusion juice, pulp distributor, discharge mechanism. In lower, middle and upper parts of the column, in the rows of return blades disposed are mechanisms for the selection of beet pulp samples consisting of guide pipes with segment recesses with mobile pipes disposed inside them, the latter have the same recesses as the guides, and are divided into chambers for the samples selection, and every mechanism is fixed to the upper part of one of return blades.