

Hi-Evaolator

- **Concentrating, making to powder, separation, distillation, solvent recovery and escape solvent**

Features

- **The evaporation ability is large.**
- **The enrichment ratio can be very raised.**
- **The processing time is short.**
- **It is possible to correspond to a wide-ranging system.**
- **The viscosity of a concentrated level and the solid can be adjusted.**
- **Washing is easy.**

Overview (Technical principles, actions, etc.)

The Hi-Evaolator is a thin-film evaporation-type powdering device that combines the features of two of our major products: the Onlator, a scrape-type heat exchanger, and the Evaolator, a thin-film evaporator. The Hi-Evaolator, which can directly transform treatment liquid into powder or highly dense slurry, won commendation as the 18th excellent pollution control device of the Japan Society of Industrial Machinery Manufacturers.

This thin-film evaporation/condensing equipment has revolving wings and heating surfaces, and the gap between the wings and heating surfaces is minimized so that the original solution can be highly condensed by passing through the gap only once. The recovery rate of the solvent is high and the volume of the residue, which can be dried to powder, is reduced. The equipment has a unique structure of our own design, used and highly regarded by many organizations in the fields of wastewater treatment for painting, printing, and dyeing, as well as for water with high concentrations of food substances, for the recovery of valuable constituents, etc.

Usages	Examples
treatment of plant waste liquid	<ul style="list-style-type: none"> *the separation of residue, dye and paste from dyeing waste liquid *the separation and recovery of salt from exhaust gas cleaning fluid *the treatment of valuable heavy metals *The recovery of condensed powder of valuable substances *the high concentration and volume reduction of activated sludge residue *the enrichment of crude radioactive waste liquid *the treatment of organic waste liquid
treatment of waste liquid with highly concentrated food substances	<ul style="list-style-type: none"> *the concentration of waste soy-bean cooking liquid and the powdering of active ingredients *the treatment of distilled spirit residue and 3) the treatment of waste salinity liquid
solvent recovery	<ul style="list-style-type: none"> *solvent recovery from waste washing liquid used when painting *the separation of DMF and MMA from synthetic textile raw materials *the separation of solvents and polymers from resin/polymer waste liquid *the final process of PCB treatment equipment.
production lines	<ul style="list-style-type: none"> *the powdering of ceramics, sodium aluminate and ferric oxide *the powdering of agricultural chemicals and dye, *the concentration of molasses *the processing of candy (for which the water content rate can be reduced to 1% or less.) * the collection of coffee flavor as frost, *the separation and purification of chemicals

■ Volume reduction and solvent recovery of paints waste fluid



raw material



Collection liquid
(solvent)



dry solids content

■ Residue of waste fluid for dye, dyestuff, and paste separation



raw material



Collection liquid
(solvent)



dry solids content

Inquiries

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