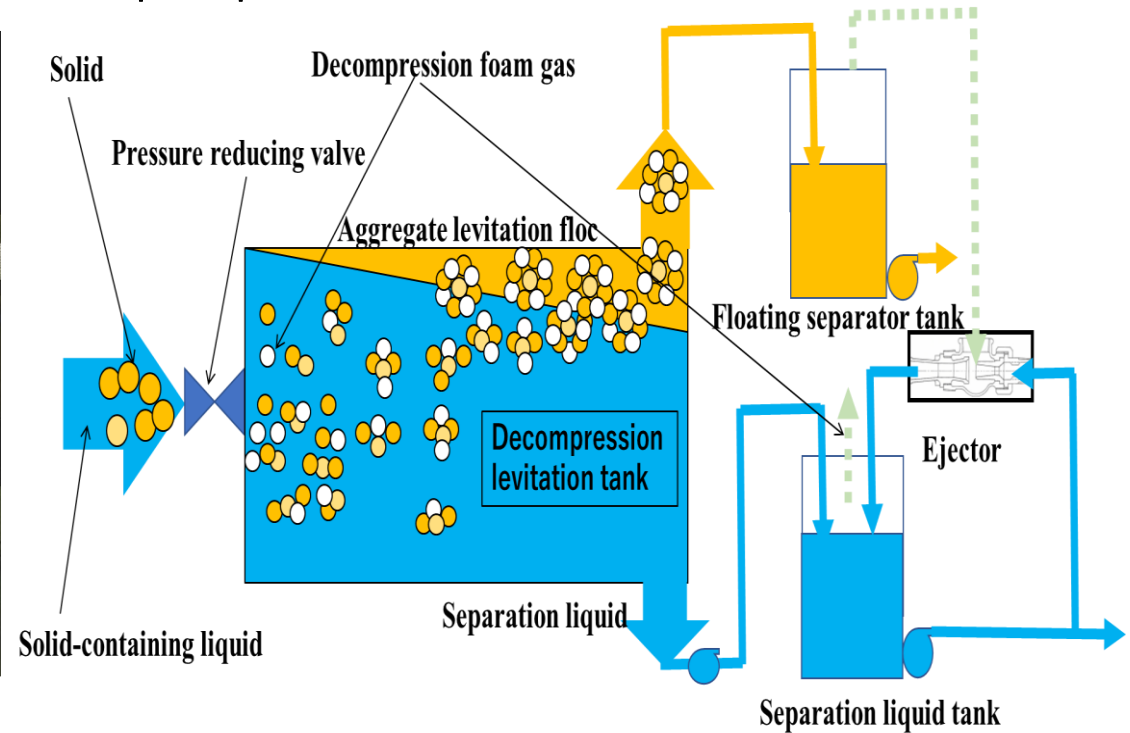




Vacuum floating device

– TechnoPlan Co.,Ltd. –

High-speed floating separation device that enables solid-liquid separation at low cost



Features

- Since solid-liquid separation is possible at ultra-high speed (10 to 30 seconds), it can be installed very compactly.
- If the decompression levitation tank can be installed 8 m or more above the ground, it can be operated only with the ejector pump.
- Advanced sewage treatment is possible by adding a flocculant or powdered activated carbon.

Overview (Technical principles, actions, etc.)

It is a device that aggregates, floats and separates solids in the liquid by degassing the air and gas dissolved in the liquid containing the solids under reduced pressure. Compared to the conventional pressurized flotation device that uses pressurized air, the components and their capacities have been significantly reduced. As a result, equipment costs and maintenance costs can be significantly reduced.

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Performance / specifications of technology / product

Results of comparative experiments on pressurized flotation and decompressed flotation in sewage sludge

- ① In the pressurized flotation method with a condensant added, it concentrates about twice after 5 minutes.
- ② If no flocculant is added, it will not be concentrated by the pressurized flotation method.
- ③ Even when no flocculant was added, it was concentrated about 3 times by the vacuum levitation method.

①



②



③



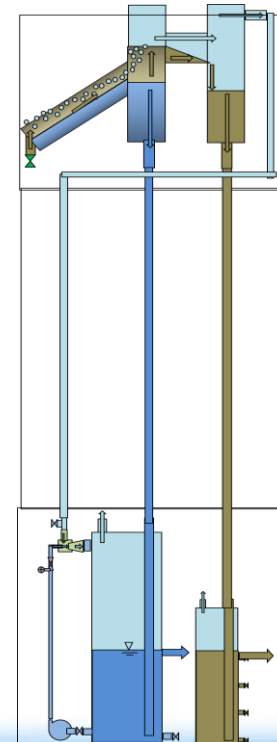
Usage examples / result

- Concentration of activated sludge from water treatment aeration tank
- SS recovery from dehydration separator
- SS recovery from methane fermentation separation solution
- Recovery of solids from factory wastewater

Small vacuum floating vice (5 M3/h)



Siphon type decompression levitation device



10 m

