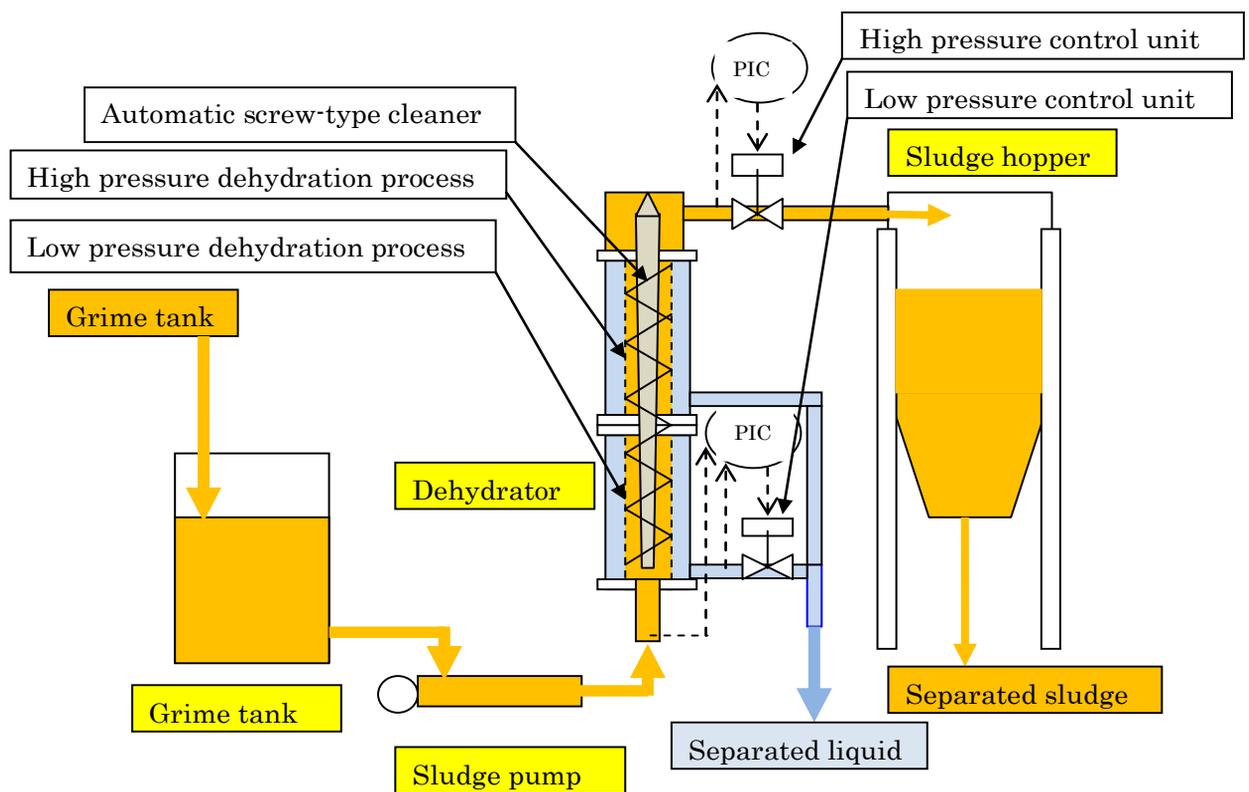


## Dehydration and transportation system for sludge

- This system can dehydrate and transport sludge by only the power of the pump.

### Features

- This system can perform dehydration and transportation of sludge with only one pump.
- Bad smells do not leak outside of the device, because dehydration and transportation of the sludge happens in an airtight container.
- Facilities and maintenance costs are very low, because this system can run automatically all day.



### Overview (Technical principles, actions, etc.)

#### Problem of conventional sludge treatment and dehydration technology

There were few merits to invest in dehydration facilities, because the cost of equipment and maintenance were very high in conventional dehydration facilities for sludge. A large building to house dehydration, transportation, deodorization facilities is necessary.

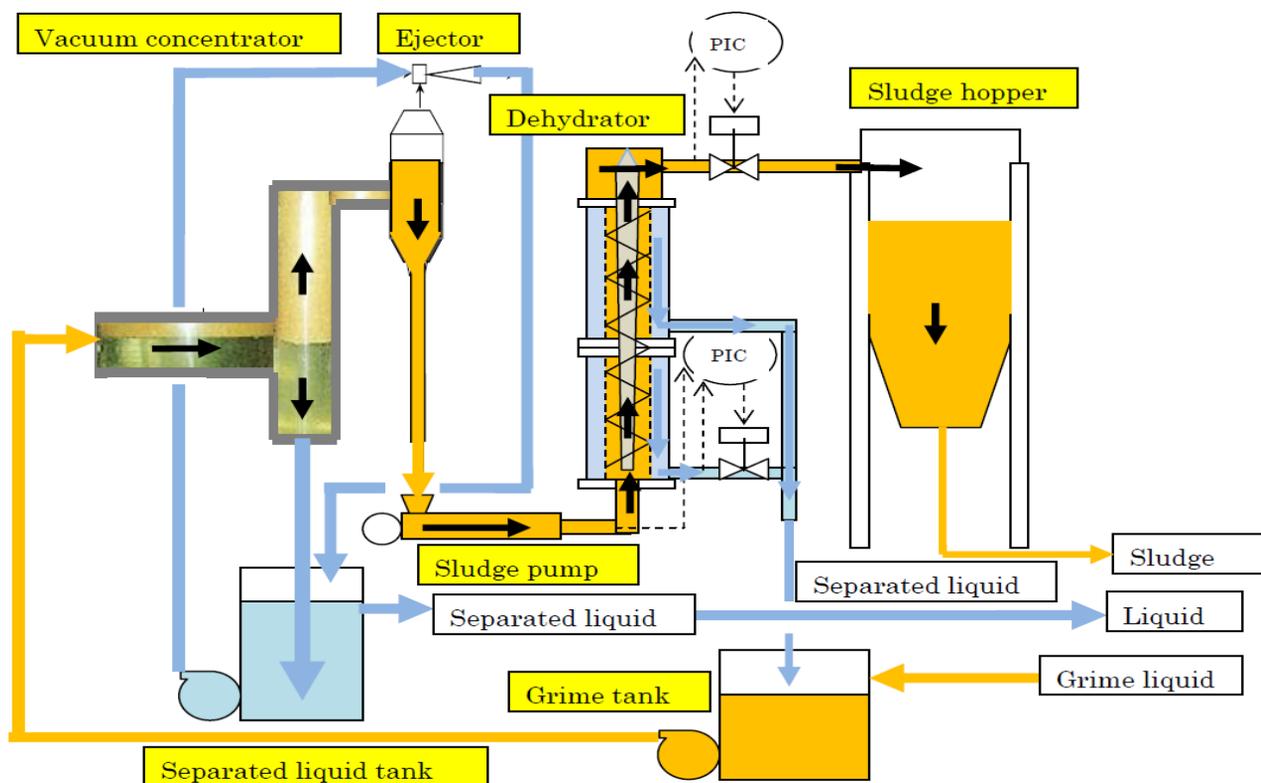
#### Overview of our company's dehydration and transportation system

This system does not need a transport system, deodorization device or building. You can dehydrate and transport sludge by using only the power of the pump.

- The filtration side is cleaned automatically by a rotary screw driven by transportation of sludge.
- The sludge is filtered at low pressure first, and at high pressure next. Dehydration is promoted efficiently with two different pressure phases.
- Dehydrated sludge can be transported without a conveyor, and does not need a deodorization device.

### The vacuum concentration system and the pressurization dehydration system

When sludge density is light, the vacuum concentration system functions effectively. The vacuum concentration technology is incorporated in a system shown in the chart below.



### The merit of the vacuum concentration and dehydration transport system

- The dehydration speed increases, because the density of sludge increases.
- The dehydrator filtration liquid becomes light density by supplying it to a vacuum concentrator.
- Dissolution gas of the sludge is de-aerated in a vacuum concentrator, decreasing any bad smells.

### Performance

Organic sludge produces a worse smell than inorganic sludge, and is hard to dehydrate. This system is effective for organic sludge produced by sewage treatment.

- Construction costs can be kept down, because this system does not need a conveyer or a building.
- Deodorization facilities are unnecessary, because the system is a sealed structure.
- Personnel expenses and the maintenance costs are low, because this system can run continuously without needing an operator.

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