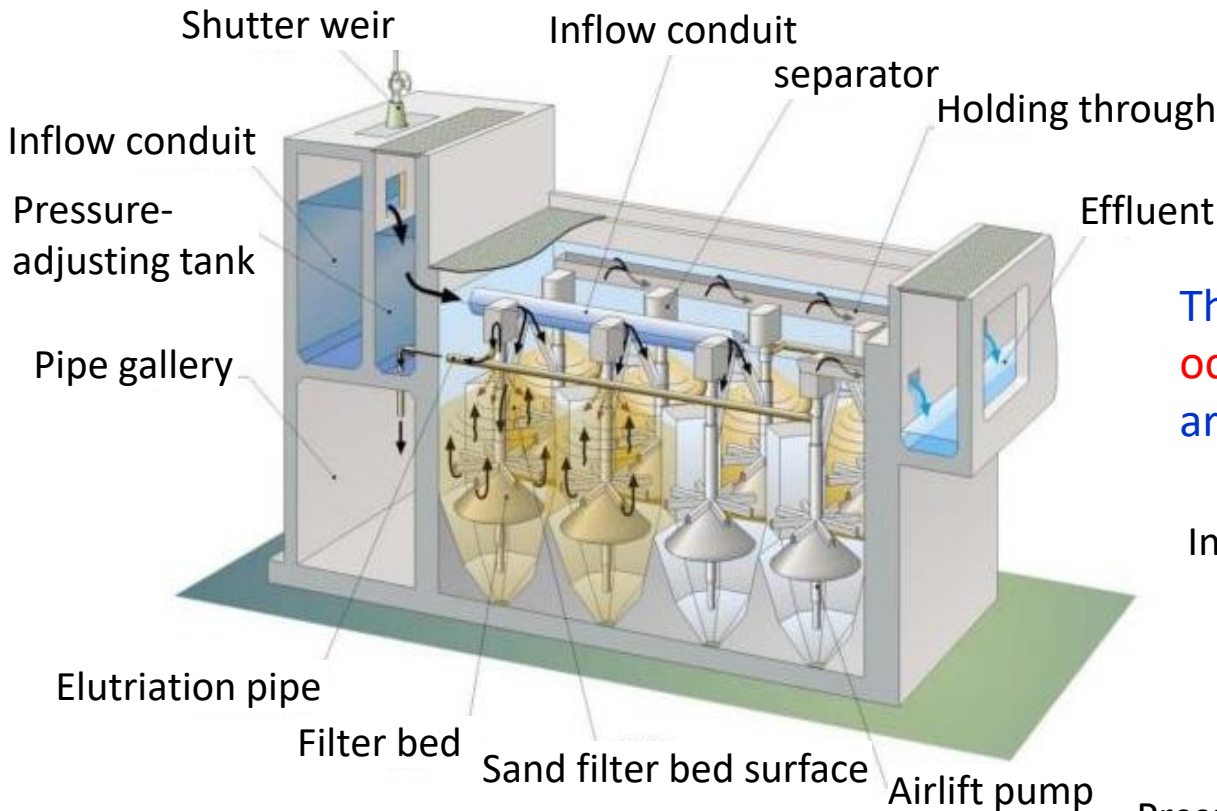


Rapid Up-flow Moving Bed Filtration

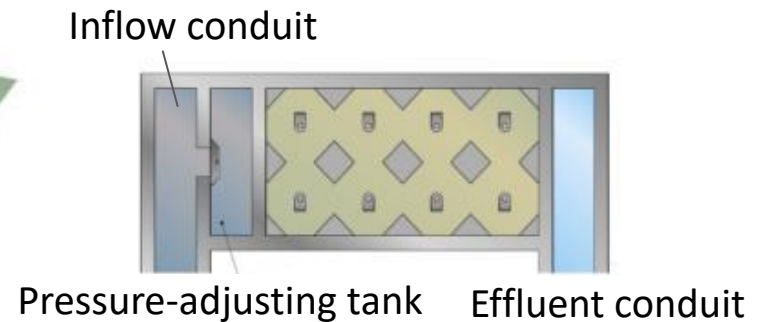
Mechanism of Sand Filter

Middle to large quantity of water
(Full filtration)

Multi-module reinforced concrete structure



The Sand filter is configured with **octagonal** units whose filtration areas are between 3,4,5, or 6m²



2D diagram of sand filter

Mechanism of Moving Bed Filtration and its Elutriation

Simultaneous filtration and elutriation

➤ Upflow filtration

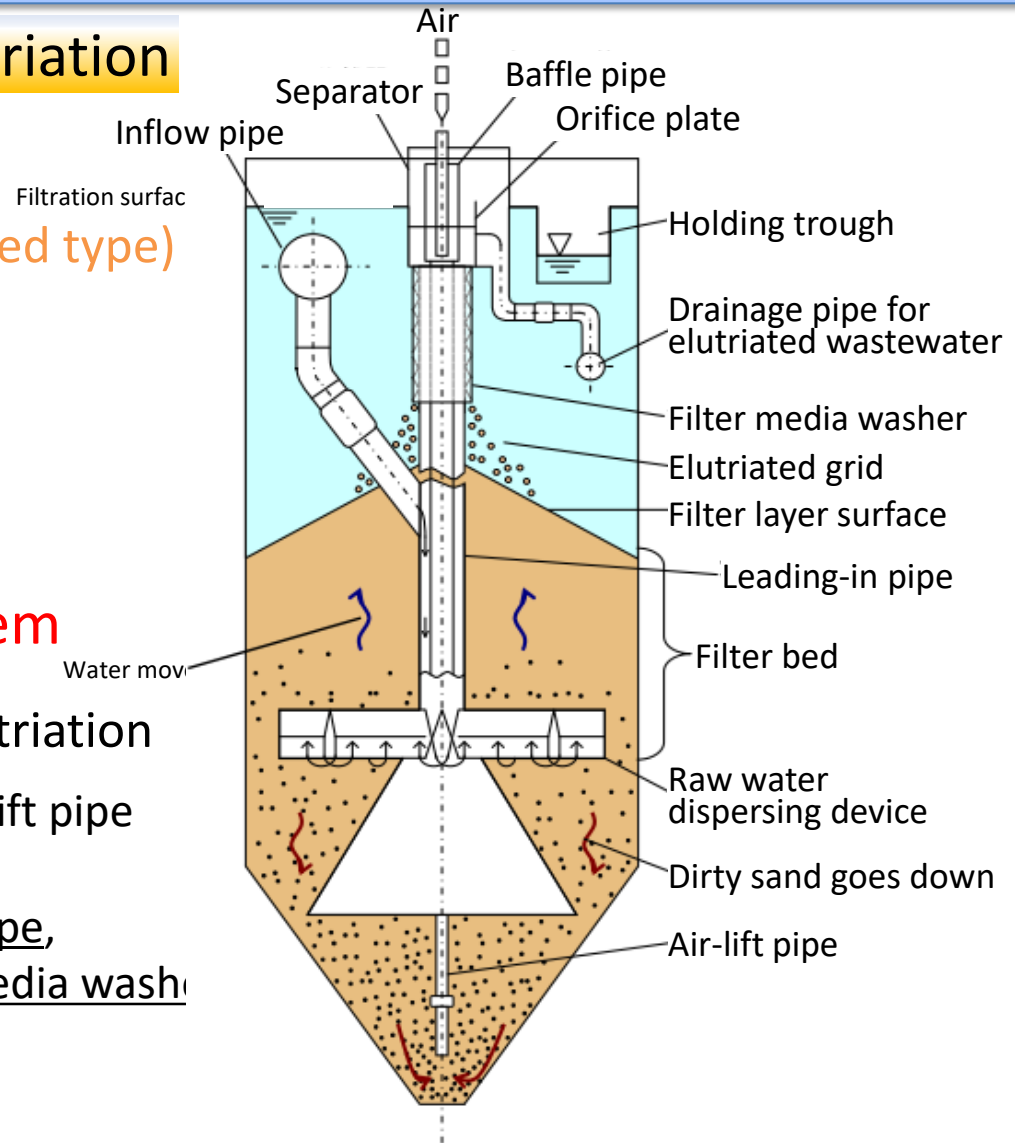
Inflow pipe for raw water (top feed type)

- ⇒ Raw water dispersing device
- ⇒ Filter bed
- ⇒ Holding trough (effluent)

➤ Continuous elutriation system

Supply air to air-lift pump for elutriation

- ⇒ Lift dirty grid at the point of air-lift pipe
- ⇒ Grid in filter layer moves down
- ⇒ Elutriate with air inside air-lift pipe,
elutriate with water inside filter media washer



Configuration of the unit

Internal Structure of Elutriator

Mechanism of elutriation

