

LHPS – Lamellar High Performance Settler

Description:

Precipitation and flocculation have a long history in water treatment. First systems were used for waste-water treatment in 1872 in Birmingham. Since, then, the phenomena have been investigated and the treatment systems improved accordingly.

The LHPS is certainly at the peak of this development. Here, all learnings have been implemented and every single reaction step optimized in terms of kinetics, mixing needs and reaction performance. Consequently, a unique system dividing mixing of chemicals, coagulation, flocculation, sedimentation, particle removal, and sludge thickening has been created by BHU engineers.

Each system is tailored to the needs of the respective task. Depending on the dosage of chemicals applied, reaction temperature, sludge formation, each system has its own DNA. All processes that include precipitation and flocculation can be implemented: Coagulation/flocculation, softening or decarbonisation both for water supply and wastewater treatment.

Advantages:

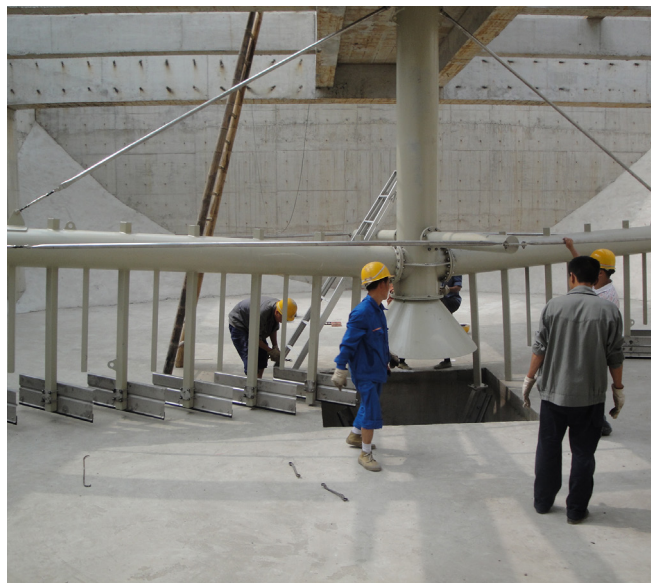
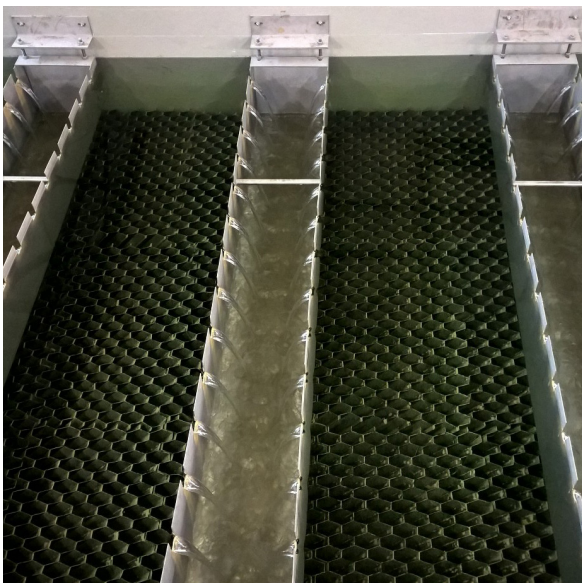
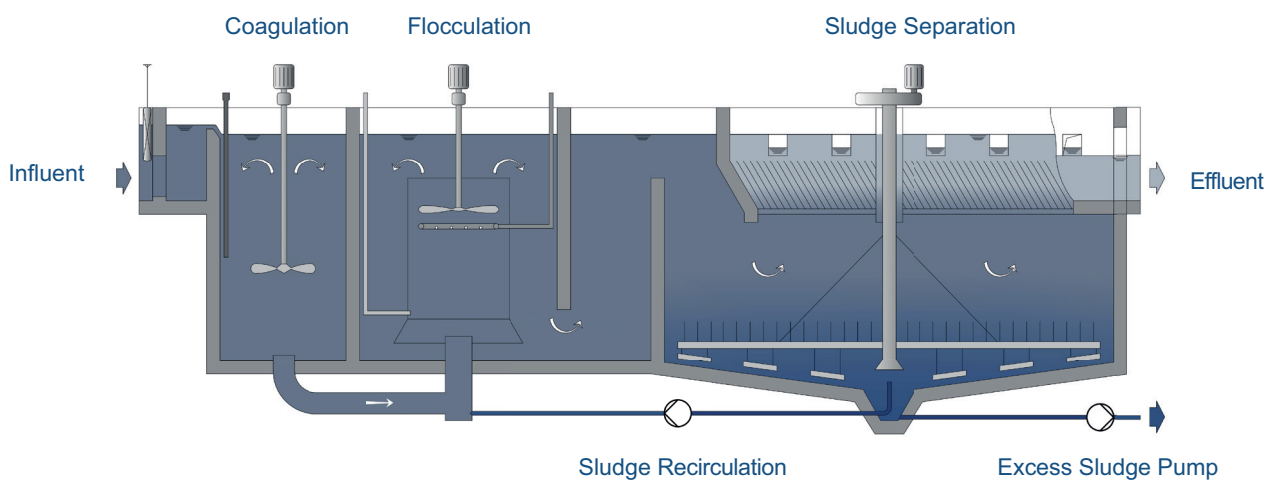
- ▶ Safe treatment system for both water and wastewater applications.
- ▶ High removal efficiency.
- ▶ Compact design.
- ▶ More than 30 references for BHU.



Clear water after precipitation

Technical data:

- ▶ Volume flows between 100 and 3,000 m³/h for each system.
- ▶ Effluent values for suspended solids down to 3 ppm.
- ▶ Removal of organic compounds by up to 75%.
- ▶ Decarbonisation reaching values below 0.2 meq/L.
- ▶ Design both in concrete and steel possible.

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