

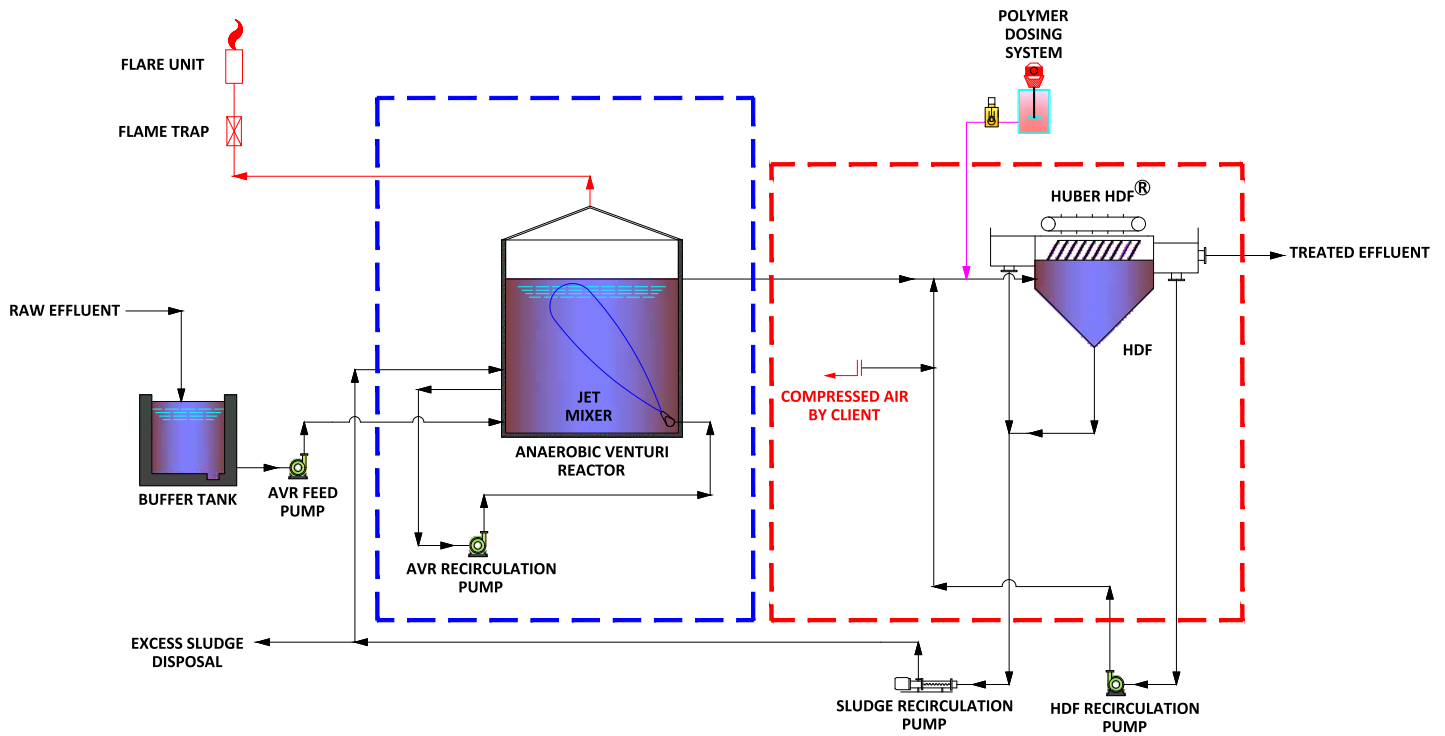
AVR-HDF® process

Anaerobic venturi reactor with HUBER's dissolved air flotation is ideal for high rate anaerobic digestion



AVR-HDF® is a unique, high rate bio-degradation process carried out in an anaerobic venturi reactor (AVR) that works well even at high mixed liquor suspended solids (MLSS) with the help of HUBER HDF®.

- HUBER HDF® as dissolved air flotation system that helps retain **high MLSS in the anaerobic reactor**
- High MLSS helps **increase process efficiency** and **reduce anaerobic tank volume**
- Existing anaerobic **CSTRs can also be upgraded to AVR-HDF®**



Flow diagram

Features and benefits:

- Uses jet mixing for both uniform mixing as well as efficiency i.e., a **high degree of mixing per unit of energy spent**
- No moving parts inside the anaerobic reactor; therefore, **reduced maintenance**
- Unique HDF[®] design that **operates well even with high MLSS** concentration of up to 15000 ppm in the anaerobic reactor
- Better **process control**
- **80-90% reduction in COD** (biodegradable) especially for dairy, food, and beverage industries
- Unique combination of processes that **effectively degrades fats, proteins and edible oils**
- Up to **50% reduction in anaerobic reactor volume**
- Up to **30% reduction in overall effluent treatment plant footprint**