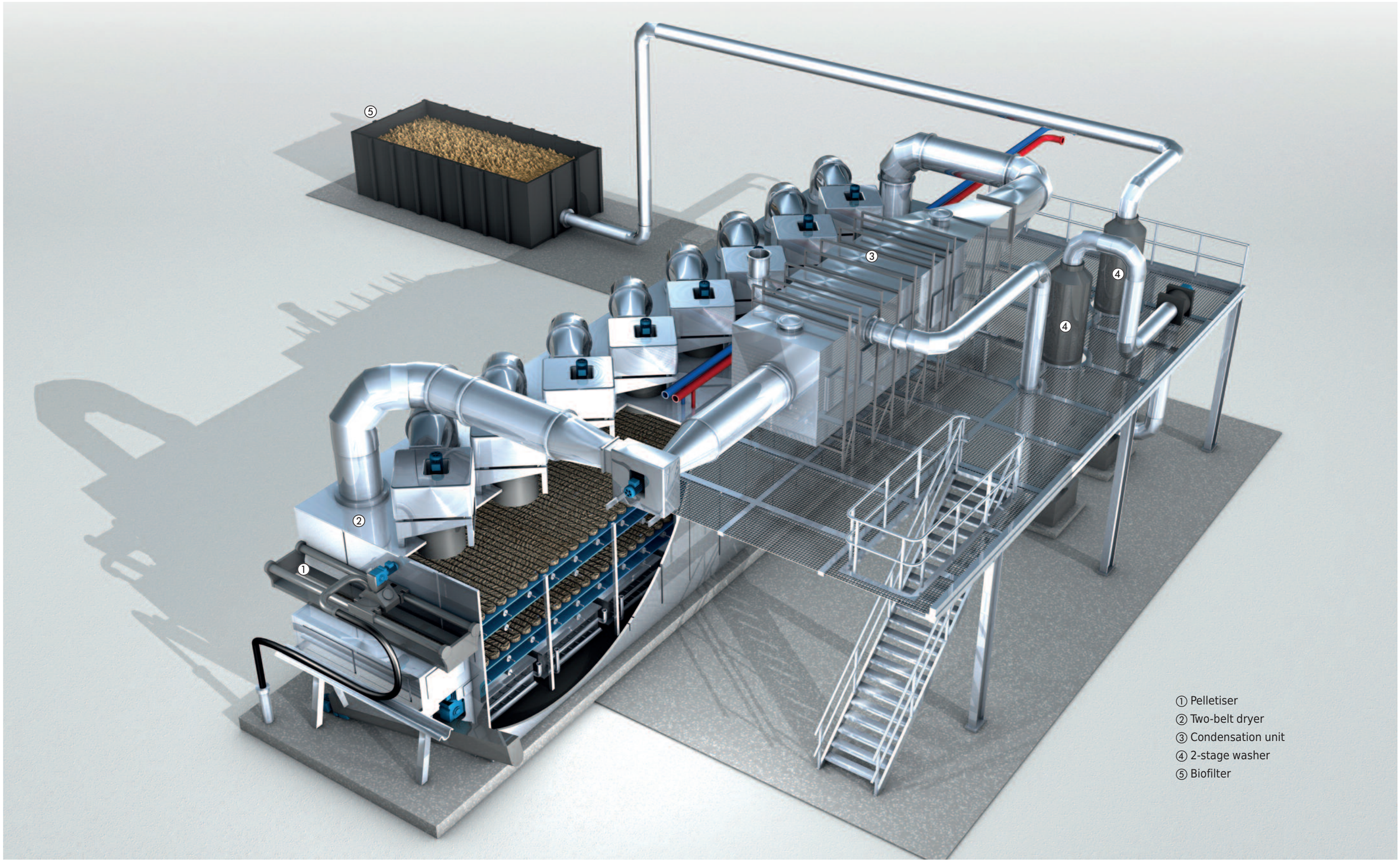
HUBER TECHNOLOGY
WASTE WATER Solutions

HUBER Belt Dryer BT for sewage sludge drying

– Dry, granular, disinfected (Class A) biosolids product, easy and safe to handle
– Exhaust air deodorization
– Virtually dust-free product
– Energy-optimized process
– In compliance with North American standards

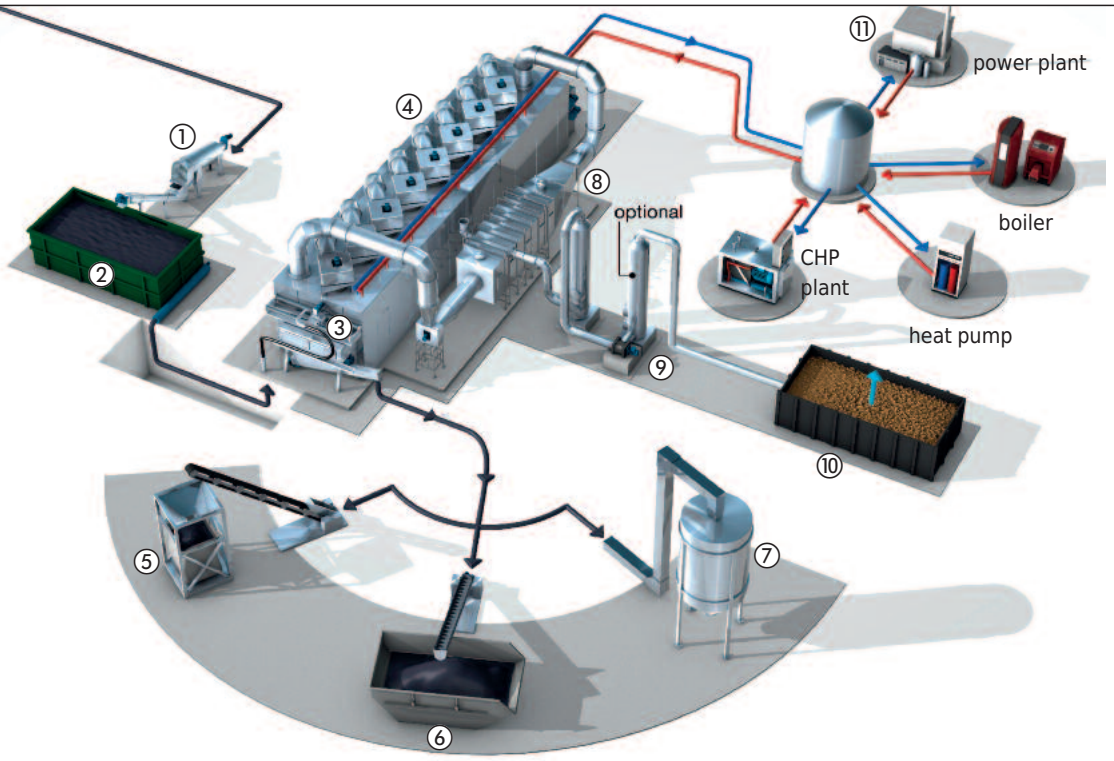


The HUBER Belt Dryer BT produces a dry, low-dust, disinfected granular biosolids product which is easy and safe to handle. The dryer uses the exhaust heat on site and reduces disposal costs.

HUBER Belt Dryer BT

Drying of sewage sludge has to meet the conflicting demands between economic efficiency, energy supply, product requirements, disposal safety and utilization options. Drying of sewage sludge minimizes its mass, volume and disposal costs. The produced dry and disinfected biosolids are a valuable product that is well suited for its beneficial use. Different energy sources can be used to supply the heat required for drying. We decided to chose drying at medium temperatures up to 293 °F because these temperatures are high enough to ensure quick drying and at the same time permit the cost-effective and eco-friendly utilization of waste heat. Internal recycling of dryer air via a condensator with integrated heat recovery reduces the heat demand of the dryer even more.

Sludge feeding through our extruder is essential for the outstanding performance of our belt dryers



① Screw press for sludge dewatering
② Sludge bunker with thick sludge pumps
③ Pelletizer
④ Belt Dryer
⑤⑥⑦ Granulate discharge to big bags, open containers or silos
⑧ Condensation unit
⑨ Exhaust air washer
⑩ Biofilter for exhaust air
⑪ Wastewater heat utilisation (power plant, boiler, heat pump, CHP plant)

Our drying solutions are designed to meet specific customer requirements. HUBER Belt Dryers use various waste heat sources and are therefore ideal to be integrated into existing systems.

The benefits of the HUBER Belt Dryer BT

- Very low electric and heat energy demand due to optimized air flow in the dryer
- Small exhaust air treatment unit due to the small exhaust air mass flow with a high saturation
- Automatic operation with drying degree control and throughput adjustment to varying energy supply
- Dry residue of granulate adjustable to ≥ 90 % or 70 - 90 %
- Low risk of fire and explosion due to moderate process temperature below 293 °F
- Controlled underpressure in the dryer prevents odour emission in the dryer hall
- High-efficiency drying with minimal dust generation due to a special pelletizing system
- Effective exhaust air treatment with one-stage or two-stage washers and biofilters
- User-friendly due to process visualization
- High availability
- Low maintenance requirements
- Customised waste heat utilization

HUBER Belt Dryer BT: wet sludge feeding via pelletizer, dry material discharge via horizontal removal screw

Our scope of services

- HUBER offers tailored solutions which are ideal to be integrated into existing systems.
- HUBER Belt Dryer BT units meet North American and European standards.
- Development of tailored concepts, design and layout of the entire plant
- Customized exhaust air treatment
- In-house production, delivery, installation, commissioning
- Maintenance of the plant including its integrated components

Sizes

- 0.34 up to 3.64 t/h water evaporation per dryer
- Optional use of several drying lines for increased water evaporation
- 13 to 98 ft active belt length

Large-scale sewage sludge drying plant with external condensation units and biofilters

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