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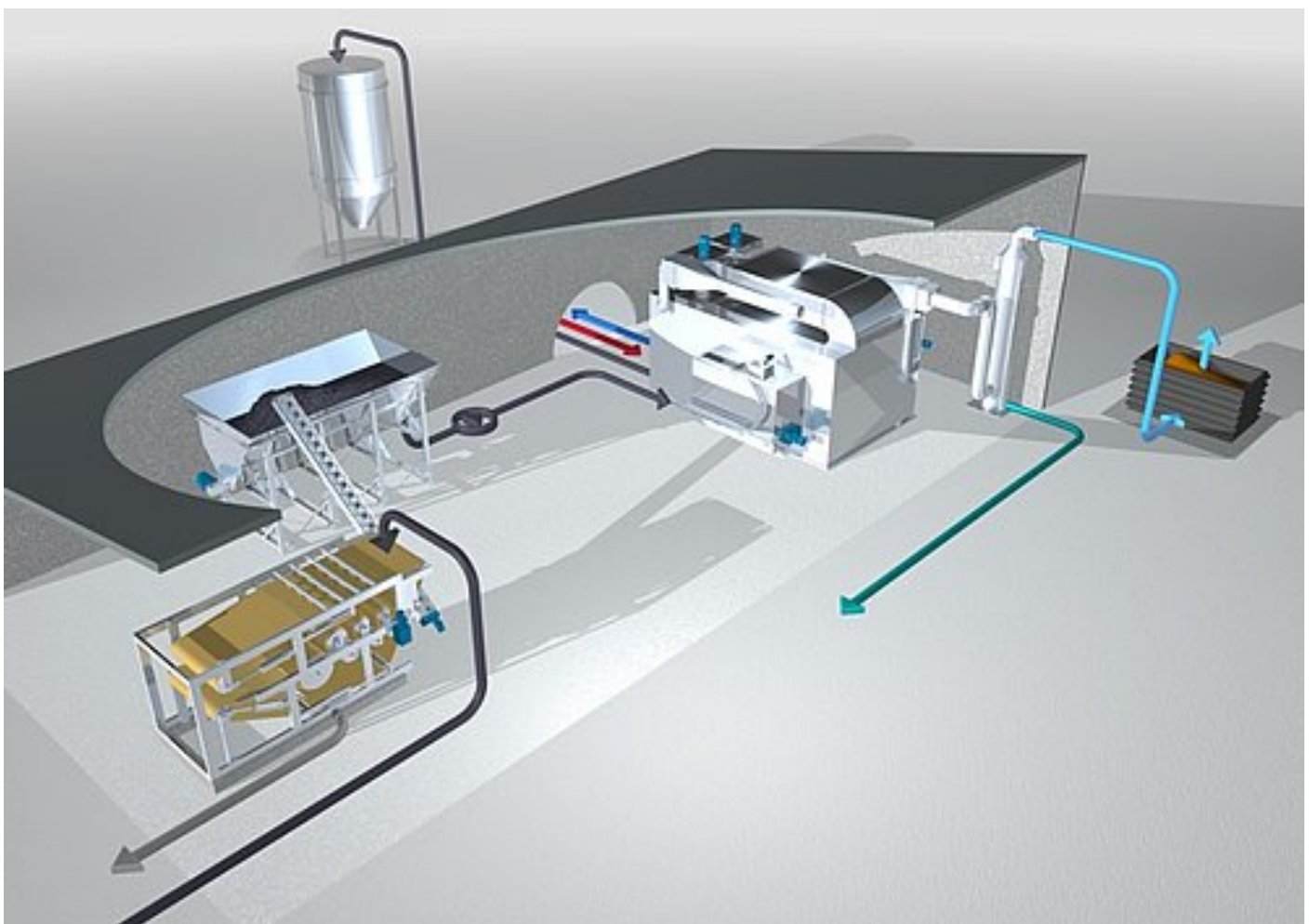
Medium-Temperature Belt Dryers

Our [HUBER Middle Temperature Belt Dryers BT](#) are automatically and continuously operated and optimally suitable for energy-saving and eco-friendly drying of municipal and industrial sludges.

They are heated with medium-temperature heat of 90 – 130 °C, e.g. with cooling water from a combined heat power (CHP) cogeneration system. Sludge detention time in the dryer is about 150 minutes.

Thereby our Belt Dryers ensure a granular, disinfected (class A), easy and safe to handle biosolids product in compliance with European and international standards.

Systems concept



Click on the image to get a detailed, interactive view with additional information and links.

Benefits

ADVANTAGES OF HUBER MEDIUM-TEMPERATURE BELT DRYERS

- Dry, granular and safe to handle product
- Dryness can be selected from 65 % to over 90 %DS
- Suitable for simultaneous sludge disinfection
- Continuous automatized operation, independent of the climate
- Low wear, moderate temperature

- Safe operation due to little dust generation
- Exhaust deodorization with scrubber and bio-filter
- Low heat consumption (ca. 0.9 kWh per kg water evaporation)
- Supply of medium-temperature heat, e.g. from a cogeneration system
- Low operation and maintenance costs

Case Studies

- [Energy-efficient sewage sludge drying at Innsbruck with HUBER Belt Dryer BT](#)
- [Isle of Man: Successful start-up of a HUBER Belt Dryer BT 16](#)
- [Innovative control system for HUBER Belt Dryer BT](#)
- [Belt Dryer BT 8 in Nova Gorica, Slovenia](#)
- [Sewage sludge drying on STP Ingolstadt – a success story](#)
- [HUBER Belt Dryer installation in Sheboygan](#)
- [Third HUBER belt drying plant in Lithuania commissioned](#)
- [First HUBER belt dryer for sewage sludge in the USA](#)

Details

DISINFECTION IN HUBER MEDIUM-TEMPERATURE BELT DRYERS

As long as the sludge is humid, water is rapidly evaporated and the sludge does not become hotter than 50 to 55 °C, because it is kept cool by the evaporation enthalpy. After the sludge has travelled on the belts about half way through the dryer, it reaches solids contents of 70 – 80 %DS, water evaporation slows and its cooling effect is reduced. Now the sludge is heated up further and reaches temperatures over 70 °C, only slightly less than the temperature of the drying air.

If the sludge is maintained at a temperature of minimum 70 ° for at least 30 minutes, it is safely disinfected. We investigated the situation in one of our full-size belt dryer installations and could prove that this requirement was met. Analysis of faecal coliforms and salmonella confirmed sufficient disinfection.

Media



Products

- [HUBER Belt Dryer BT](#)
- [HUBER Horizontal grit dosing screw RoSF7 with tank followed by a wash drum](#)
- [HUBER Screw Conveyor Ro8 / Ro8 T](#)
- [Sludge Dewatering](#)

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