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HUBER Solution for Heat Recovery from the Wastewater Treatment Plant Effluent



Recovery of heat from clarified wastewater provides several advantages: Considerable heat potentials are available due to the huge water volumes, effluent cooling does not have negative effects on the receiving water, and sewage treatment plants often have a high demand for heat.

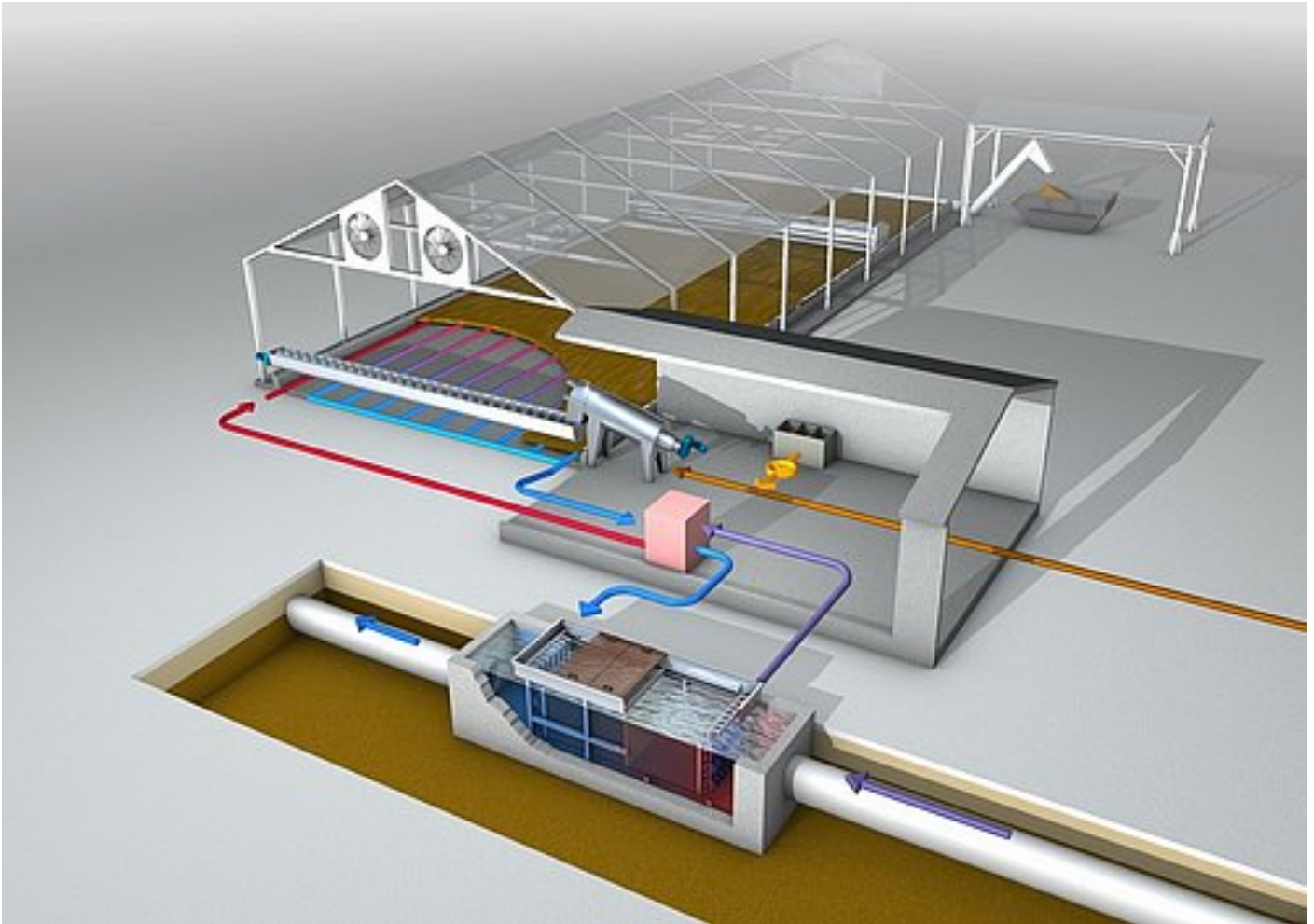
Our compact, self-cleaning [RoWin Heat Exchanger](#) is preferably installed as tank version in a depression in the effluent channel.

The recovered heat can for example be used to enhance sludge drying in our [Solar Dryer SRT](#).

Solar dryers use free solar energy. Sometimes, however, when there is not enough sun for seasonal or climate reasons, there is not sufficient solar energy available.

To reduce space requirements in such cases and/or ensure all-year-round drying, it is reasonable to use an additional regenerative heat source: wastewater heat!

[Systems concept](#)



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

Process

A regenerative heat source can be the heat contained within wastewater. The temperature level of wastewater heat is rather moderate, but the heat is permanently available on each sewage treatment plant. We use a heat pump to raise the temperature up to a level that enables the reliable and efficient use of this thermal energy for low-temperature sludge drying.

The heat pump generates 4 to 6 kWh useful heat.

Case Studies

- Energy from wastewater - the HUBER RoWin Heat Exchanger is becoming increasingly popular
- Energy recovery from filtrate water on WWTPs
- "Tank version" of HUBER Heat Exchanger RoWin

Products

- HUBER Solar Active Dryer SRT
- HUBER Screw Press Q-PRESS®
- HUBER Screw Conveyor Ro8 / Ro8 T
- HUBER Heat Exchanger RoWin



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