

Evaporis™ LT

low temperature sludge drying system

○ biosolids



improve safety in dewatered sludge drying while reducing your energy bill

○ **easy integration**

modular and scalable design available from 30,000 PE and up

○ **environment**

primary energy savings and greenhouse gas reduction



innovation

energy recovery from on-site low-calorie processes provides the dryer's energy supply

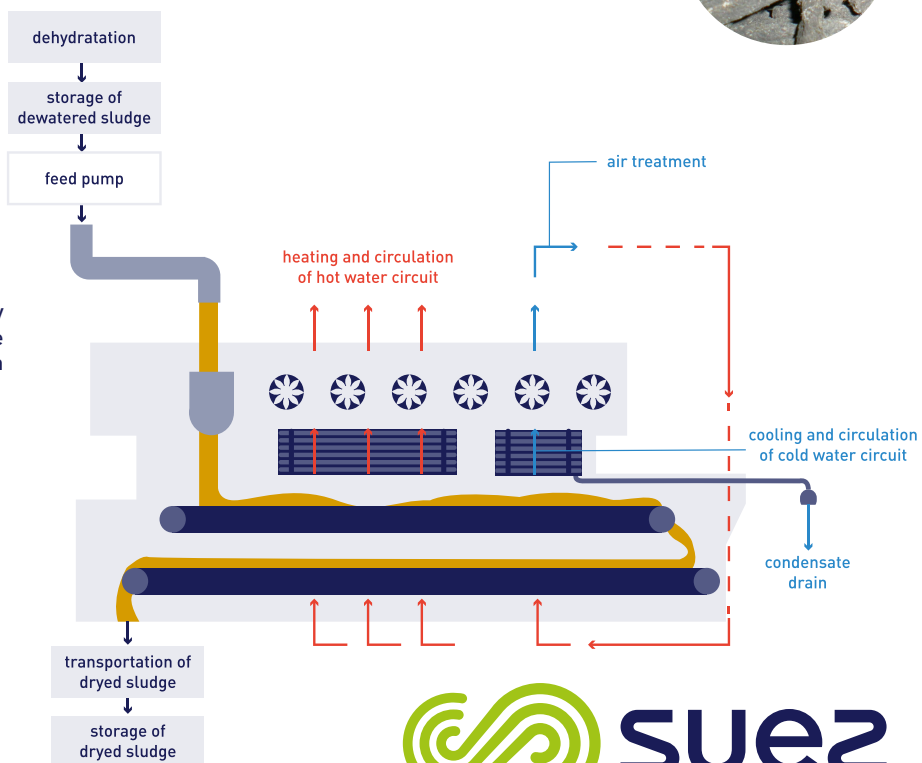
Based on the low-temperature belt-dryer developed by Spanish company STC (Sistemas de Transferencias de Calor), SUEZ has designed a comprehensive drying system for processing dewatered sludge.

key figure

only

90°C

required temperature for the heat source



Evaporis™ LT technology . . .

Taking primary municipal wastewater, physico-chemical, biological or mixed dewatered sludge (with or without tertiary treatment) such as industrial wastewater sludge, the low-temperature Evaporis™ LT dryer works on the principle of continued drying by hot air convection (65 / 80°C) in a closed tunnel.

Automated from A to Z: in order to ensure that air passes through the sludge during drying, a feed module receives and transforms the dewatered sludge into strands (extrusion). These strands move forward on the upper drying belt's module(s), where the circulation of hot air through the belts allows moisture to be captured and water extracted from the sludge.

This upper drying belt drops the pre-dried sludge onto the lower belt, where drying is completed. The dried sludge leaving the process has a dry content of between 70 to 90%. A lump breaker mill at the end of the process line enables granules to be obtained which are then automatically sent to a storage area.

The air circulating in the dryer comes from heat exchangers, inside of which water circulates at 90°C. In regard to the water contained in the sludge, this is extracted as steam (hot, moist air) and is then condensed in exchangers, inside of which cold water circulates (20 / 40°C).

. . . what it can do for you



among our references

Saint-Marcellin, France
capacity: 50,000 PE

SUEZ treatment infrastructure
innovation.mailin@degremont.com
www.degremont.com