



Thermal Sewage Sludge Treatment

Ataköy Istanbul, Turkey

Haarslev sends 6 treatment sludge lines to Ataköi. 600 t wet sludge, to enter in the line daily, will be mechanically dewatered so that it contains 25% dry substance. It will be dried to a dry substance of 90%.

The drying will take place in six ROTADISC® dryers which are indirectly heated by thermal oil. The incurred vapours of the two dryers will be showered into one two-stop vapour condenser unit. In the first step the vapour energy will be used to heat up the thin sludge. In the second step the vapour will be finally condensed.

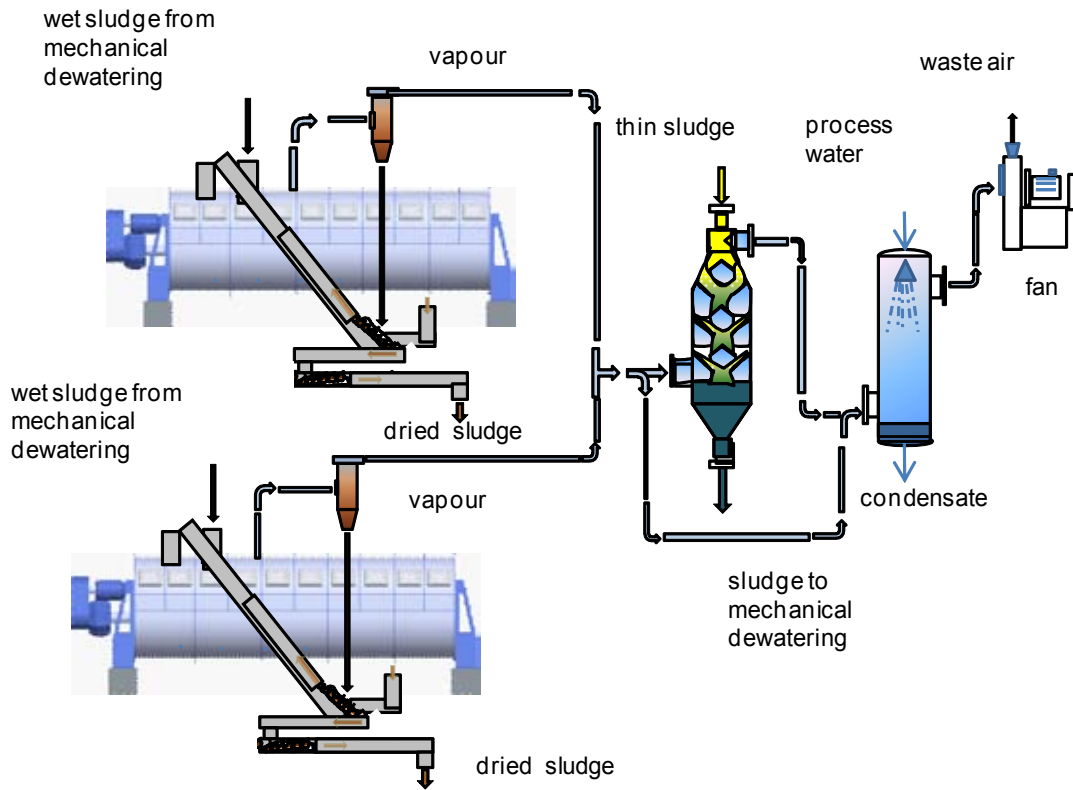
Haarslev Industries

Atlas-Stord and Haarslev merged to Haarslev Industries in 2006. More than 50 years experience as a supplier of industrial thermal drying units has made us a competent partner.

The applications can be found in the range of the fish meal industry, in the handling of animal by-products and for the drying process of industrial and municipal sludge.

In addition they find an application in the drying process of biomass and in breweries and distilleries.

Flow diagram sludge treatment



Technical Data For The Sludge Handling System

Drying unit capacity	600 t wet sludge/day	Sludge drying, values per dryer	
Sludge treatment			
• DS content before the centrifuge	4 %	• Number of discs	50
• DS content behind the centrifuge	25 %	• Heating surface	300 m ²
• 6 disc dryers	TST 2050RH-D32	• Wet sludge flow	4,167 kg/h
		• DS content wet sludge	25%
		• DS content of dried sludge	90%
		• Evaporation	3,009 kg/h
Sludge treatment plant		• Installed power of dryer drive	132 kW
Start up	2010	• Heating medium	Thermal oil
Operation time	> 8,000 h/a	• Two-step condensation with heat recovery	

Haarslev Industries reserves the right to make changes.



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