



## Sludge treatment plant N.V. Slibverwerking Noord-Brabant, Netherlands

### Sludge treatment plant Noord- Brabant, NL

For central environmental control of the treatment of the residual from five water unities in the Dutch province of Noord-Brabant, the "N.V. Slibverwerking Noord-Brabant" in 1997 built a sludge plant for sludge receipt, thermal drying and incineration.

The new sludge treatment concept contributes heavily to the treatment safety of sludge from more than 60 waste

water treatment plants. For environmental reasons the sludge will be thermally dried and incinerated according to the directives within sludge regulations.

Haarslev Industries planned and built the plant for thermal sludge drying and vapour treatment.

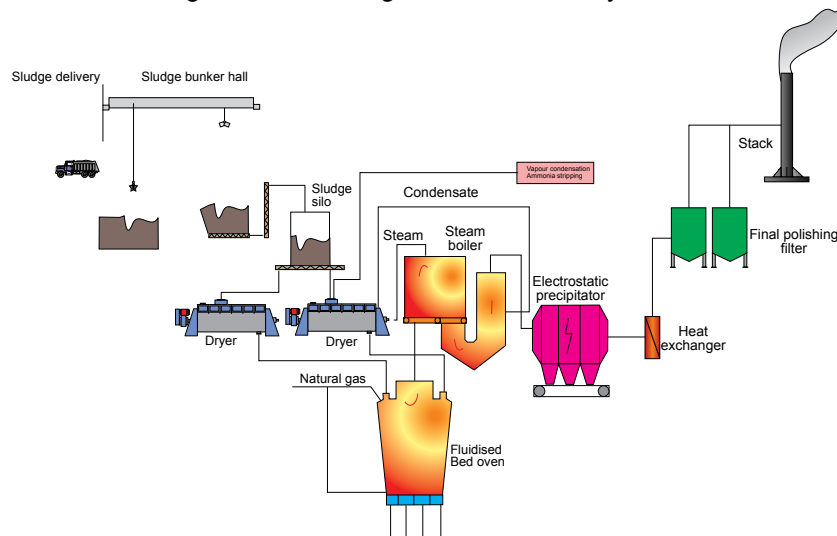
### Haarslev Industries

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

The applications can be found in the range of the fishmeal industries, 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.

# Sludge Treatment Plant N.V. Slibverwerking Noord-Brabant

Flow Diagram of the Sludge treatment Facility Noord-Brabant



## Plant data

**Total plant capacity:** 365 t dry substance/day

### Sludge reception

- Sludge bunkers for sludge reception from trucks coming from more than 60 different waste water plants
- Total capacity: 5,600 m<sup>3</sup>

### Sludge drying

- 8 disc dryers: TST-70R
- Throughput capacity each: max. 9,500 kg/h
- Heating surface each: 250 m<sup>2</sup>
- Dry substance content before drying: 24 %
- Dry substance content after drying: 43 %
- Installed driving power each: 132 kW

### Incineration

- 4 fluidised bed ovens
- Combustion temperature: 870° - 900° C
- 2 start-up burners each, capacity: 3.2 MW
- 1 combustion air fan each: 18,500 m<sup>3</sup>/h
- Throughput capacity per oven: 3,800 kg/h DS

## Clean gas values of flue gas cleaning

*(Standard conditions, dry, 11 % O<sub>2</sub>, according to the Dutch regulations which are considered to be the strictest of the world)*

SO <sub>2</sub> ≤ 40 mg/m <sup>3</sup>	NO <sub>X</sub> ≤ 70 mg/m <sup>3</sup>
CO ≤ 50 mg/m <sup>3</sup>	Dust ≤ 10 mg/m <sup>3</sup>
HCl ≤ 10 mg/m <sup>3</sup>	HF ≤ 1 mg/m <sup>3</sup>
Hg ≤ 0.05 mg/m <sup>3</sup>	

## Sludge treatment plant

Starting-up: 1997

Operating period: > 8,000 h/year

Haarslev Industries reserves the right to alterations without further notice.



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