

Plant Report



Sewage sludge incineration plant at the WWTP Karlsruhe SAX 4011-12



TECHNICAL DATA:

Year of construction	: 2013
Material	: Sewage Sludge
Bulk density	: 1000 kg/m ³
Humidity	: 20...30 %

1 Rectangular silo (Reception silo) with push floor discharge

Silo capacity	: 38 m ³
Discharge rate	: 15 m ³ /h
Discharging screw, type	: DDA

2-Cylinder-Solid pumps

Solid pump, type	: SP 2250-1000
Conveying capacity	: 15 m ³ /h
Conveying pressure max	: 100 bar
Motor rating	: 110 kW
Pipework DN 200 PN 40	: approx. 110 m

The city of Karlsruhe operates a fluid bed incineration for municipal sewage sludge in their waste water treatment plant.

In addition to the internal sludge imported sludge is taken from other sewage plants.

Already in 2002 SAXLUND had delivered the first plant for the sludge handling.

By increasing the capacity of the incineration, a second receiving station is installed.



For loading of the reception silo a hydraulically operated cover on the road level has to open.

The push floor and the prepress screw installed directly under the silo bottom feed the solids-handling pump.

For charging of the two fluid bed a SAXLUND distribution is used.

Due to a pipeline length of 100 m a lubrication is essential. The pipeline pressure is reduced approx. 40 % by the water injection.

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