



PLANT REPORT



Bristol WwTW

Limed Sewage Sludge Cake Storage & Lorry Loading System

Digested and limed sewage sludge cake is fed from adjacent processes via our in-feed belt (digested) and chain (limed) conveyors to the Saxlund storage and lorry loading silos (8m and 10m, respectively). Both silos are equipped with the Saxlund Sliding Frame discharge machine with discharge screw.



Saxlund products for silo and conveying technology:

Solids Handling Pumps ● Troughed Chain Conveyors

Screw Conveyors ● Combustion Plants

Sliding Frames ● Control Systems

Push Floors ● Rotary Valves

Elevators ● Tubefeeders



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TECHNICAL DATA

Saxlund project ref. no.: SUK 1032
Year of construction: 2004
Material: Digested & limed sewage sludge cake
Bulk density: 1125 kg/m³ (max)
Dry solids content: 20 - 25%

SPECIFICATION
Discharge rate: 120 m³/hr

EQUIPMENT
1 x Spiral Screw Conveyor for Digested Cake Feed to Belt Conveyor

Type: U-320R
Length: 5880mm
Discharge rate: 8 m³/hr
Motor rating: 3 kW

1 x Belt Conveyor to Silo (1)

Type: Troughed belt
Length: 31,000mm
Discharge rate: 8 m³/hr
Motor rating: 3kW

1 x Digested Sewage Sludge Cake Storage & Truck Loading Silo (1) with Sliding Frame Discharge Machine

Silo diameter: 8000mm
Silo capacity: 424m³ gross
Sliding Frame type: GL-8000-SXT-DM
Hydraulic cylinder diameter: 180mm
Hydraulic power pack motor rating: 2 x 18.5 kW
Tank capacity: 400L
Discharge screw conveyor type: DM500
Length: 8212mm
Discharge screw motor rating: 18.5 kW

1 x Chain Conveyor to Silo (2)

Type: Z500-L
Length: 31,000mm
Discharge rate: 20 m³/hr
Motor rating: 7.5 kW

1 x Limed Sewage Sludge Cake Storage & Truck Loading Silo (2) with Sliding Frame Discharge Machine

Silo diameter: 10,000mm
Silo capacity: 662m³ gross
Sliding Frame type: GL-10,000-SXT-2DA
Hydraulic cylinder diameter: 200mm
Hydraulic power pack motor rating: 2 x 18.5 kW
Tank capacity: 400L
Discharge screw conveyor type: DM630
Length: 9000mm
Discharge screw motor rating: 15 kW

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