

SPEKTRA WASTE MANAGEMENT SDN BHD

SpekDry SD2000

PROCESS DESCRIPTION

The sludge drying system will consist of four major components, namely the loading system, drying unit, unloading system, and the scrubber. Depending on individual client's requirement, the loading and unloading system will vary.

Sludge drying is carried out by passing a stream of hot air over the sludge cake in a controlled environment. The unique design of the SpekDry dryer will enable the cake to dry evenly and the finished products will be in a granular form.

The hot air is generated via a gas-fired burner where the air can be heated up to 250°C. Drying time will take approximately 4-5 hours. To discharge the finished products, the drum will be rotated in reverse direction where a receiving hopper or a storage drum will be placed directly under the discharge chute.



The rotating drum is constructed from mild steel plate and reinforced with trunnion rings. The drum is rotated through a chain and sprocket system driven by a geared motor with guides installed to reduce side movement. The tension of the chain is self-adjusting to prevent slipping and irregular movement.

The dryer is equipped with a temperature controller to prevent overheating and a timer for setting drying time. A panic button is also available for emergency stoppage of the dryer.

A wet scrubbing system is included to scrub the air being discharged from the dryer to ensure the air is free from particles and will also act as a cooling tower to reduce the air temperature before existing to exhaust stack which is 3 m higher than the dryer room.

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TECHNICAL SPECIFICATION

Model : SpekDry SD2000
Capacity : 2000kg/cycle of 4-5 hrs
Dimensions :
Loading : Screw Conveyor
Unloading : Direct
Moisture level: 20% and below
Inlet/Outlet : Screw Conveyor
Energy source: Natural Gas

