

ABZ Sand Washer

Application

Standard grit trap contents have an organic proportion of 50 to 80 %. Conventional grit classifiers are able to dewater the grit trap settlings only partially. But, the high organic content and the lack of dry substance bring on unpleasant odour, high weight and, as a consequence, high costs for disposal. These existing units can be retrofitted with our ABZ Sand Washer.



With the ABZ Sand Washer the organics in the grit trap can be nearly completely washed out. Then, the ignition loss of the washed sand is less than 3 % and the dry remnant more than 90 %. This results into a reduction of mass of up to 80 % and might cause cost savings of up to 90 % when being disposed on a construction waste landfill.

Your Benefit

- reduction of organics less than 3 %
- dry substance of washed sand more than 90 %
- sand discharge without fluid-wetted level control
- automatic control of wash water supply
- no submerged bearings
- small footprint due to vertical discharge
- low wash water consumption / low operational costs
- short-term amortisation / low disposal costs
- recycling or disposal on construction waste landfill
- fully automatic operation
- rugged design

Technical Features

- material: stainless steel AISI 304, gas-shielded welding, pickled and passivated
- spirals: special steel
- agitator: hardened steel
- drive: double coating

A solution you will benefit from soon!

Function

The pre-dewatered grit trap settlings of the sand classifier is conveyed to the ABZ Sand Washer. The agitator of the sand washer starts with the infeed operation separating the particles with the patented up stream process. The organic parts passing through the sediment stock are separated with wash water supported by the rotating agitator. Then, they are flushed out via the overflow for further treatment.

The washed solids sediment at the reactor bottom is discharged in cycle operation by a low-wear spiral. The defined remaining quantity of washed sediment in the agitator tank serves as separating layer and avoids discharge of contaminated material. Height and discharge quantity of the sediment stock can be modified and are adjustable to site conditions.



Sizes	Throughput capacity up to
Sand Washer DL 100 S	0.1 m ³ /h
Sand Washer DL 200 S	0.3 m ³ /h
Sand Washer DL 400 S	0.75 m ³ /h
Sand Washer DL 1,500 S	1.5 m ³ /h

special sizes upon request

PWL GmbH & Co. Anlagentechnik KG

Warbersche Strasse 32 | D-31675 Bückeberg | Germany
 Fax: +49 5722 8 92 79-27 | Phone: +49 5722 8 92 79-0
 info@pwl-anlagentechnik.de | www.pwl-anlagentechnik.de