MECHANICAL WASTEWATER TREATMENT

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SEPTAGE RECEIVING STATION B-S.ZL

Septage receiving station B-S.ZL is designed for reception of municipal and industrial sewage from septic tankers.

Principle of operation:
The supplier sets the septic tanker by the inlet connection and connects it to the fire hose coupling of the receiving station using a flexible hose and places the assigned identifier on the reader mounted in the control cabinet. In this way, the supplier is identified, the display shows the supplier's details. If there is consent, the supplier selects from a database of cities and streets a source of sewage to be discharged and determines the type of sewage - domestic or industrial. After correctly entering the data, the sewage is discharged by opening the knife gate valve on the pipeline. During discharge, the amount of sewage and their basic parameters are measured. Delivery may be interrupted when the threshold values of parameters set are exceeded.

Delivery can be unaccepted for the following reasons:

- delivery has a block set,
- the supplier's quota limit has been exceeded,
- the carrier has not been identified,
- station failure.

After the end of the draining procedure, the valve closes and the measuring vessel, which contains the measuring electrodes, is rinsed. At the same time, a receipt confirming the receipt of sewage is printed, which contains information about the supplier, origin of sewage, amount of sewage received, sewage parameters and possibly the cause of the interruption of delivery. All data on the dump are stored in the system for later creation of reports or summaries generated using a computer application.

B-S.ZL

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A standard receiving station consists of:

- measurement of the quantity of sewage delivered (flow meter with empty pipe detection),
- measuring vessel,
- measurement of pollutant concentration (pH, conductivity, temperature),
- Drain line made of stainless steel DN100 or DN125,
- pneumatic valve,
- compressor,
- flushing system,
- Control and identification cabinet (stainless steel) equipped with a colour 5.7'' LCD screen (IP 55),
- Control system with data archiving, and the ability to create databases (town, address of the property),
- carrier identification module (supervision of suppliers and reporting),
- identification cards for the carrier,
- registration of deliveries with the possibility of transferring data to an USB stick.

Optionally, wireless transmission of data to the control room can be used.

The whole system can be placed in a container made of stainless steel (acid-proof), which ensures free movement and maintenance. A standard container features thermal insulation (10 cm) with PE foam, electrical system, heating system with an electric heater.

The receiving station can be further extended with:

- a crusher,
- automatic sampler,
- sieve/screen for separation of solids,
- stone catcher.

Advantages:

- protects the treatment plant against polluting the activated sludge (deposit),
- full automation requiring only periodic monitoring,
- high quality, durability and reliability of measurement equipment,
- design flexibility allowing for installing the device in different conditions,
- easy, fast installation.

Specifications:
Flow capacity of approx. 100 m3/h

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