

Pressure Filtration Technology



ROTARY DRUM SCREEN
INTERNAL INFLOW

Rotary Drum Screen

Internal Inflow

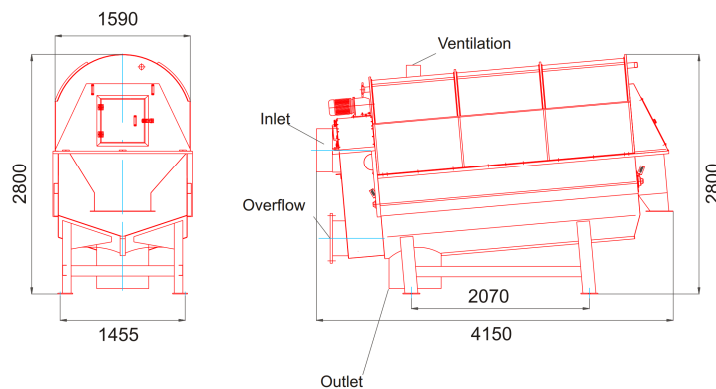
Rotary drum screen A rotary drum screen LBW with an internal inflow is used for purifying liquid from solid particles ensued as a result of various processing operations. The device is on a standard basis equipped with a rotary drum made of a slot screen revolving around axis inclined with respect to the horizontal plane. The drum turns around on wheels supporting it and is powered by the electric motor with a reducer by the cogged gear. Polluted water, which is flowing to the screen, is being distributed along the internal screen surface by a distributing pipe.

Operating specification:

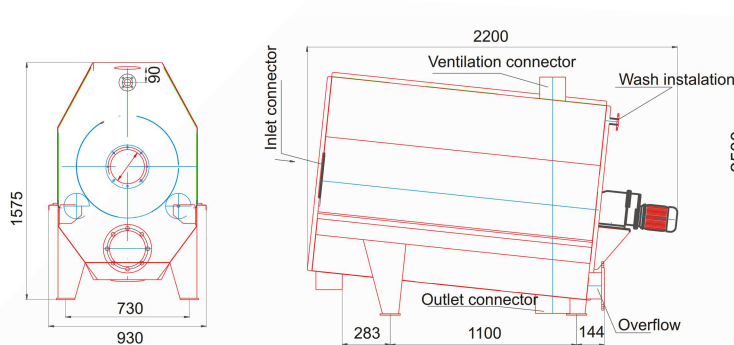
Solid particles are being retained on the screen's surface and transported to the discharge of solid particles by a coil installed on the internal side of the drum. Pressure system for periodic spraying of external screen's surface is applied in order to eliminate blocking the screen. The system is equipped with stream nozzles pointed directly at the drum. This solution allows screen self-cleaning.



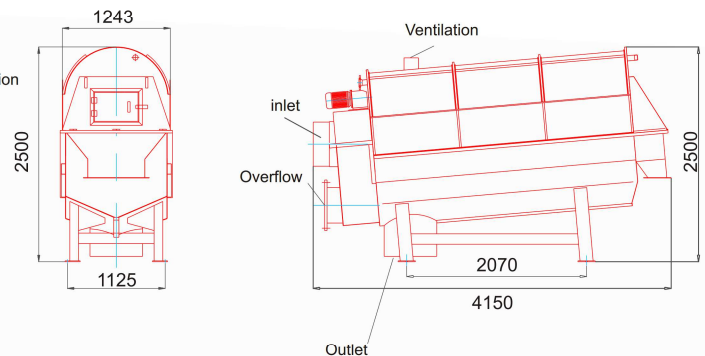
Dimensions and measurements



LBW 1230



LBW 600



LBW 900

Design and equipment

The simple design of the device requires only periodic checks during its exploitation. A big capacity while the demand for electrical energy is not relatively much as well as little dimensions are advantages. The rotary drum screen is adapted to continuous operation (24 h x 365 days) thanks to the use of high quality sub-assemblies and raw materials to the construction.

We can offer optimal solutions in relation to slot selection and size of drum's profiled wire on the basis of many years experience with filtering the liquid and the customer's individual requirements. We offer, depending on requirements, fabrication of filtration devices with perforated or woven sieves and any their combinations.

The selection of the drum screen depends on the device destination and required capacity, used size of the slot is decisive to the quality of filtration

Technical parameters

Options:

- ▶ any slot size between 0,1 and 10 mm,
- ▶ possibility to change the device's capacity through the
- ▶ choice of a profiled wire: 18Sb; 22Sb; 28Sb; 34Sb; 42Sb,
- ▶ drum's fabrication with woven sieve.

Examples of capacity of the rotary drum screens LBW [m³ / h]

Slot [mm]	LBW 600	LBW 920	LBW 1230
0,75	54	150	700
1,5	108	324	1045
3	260	650	2200

We can offer specialist technical consulting and ready-made solutions for specific applications in the field of filtration and pollutions removing from various suspensions.

Please contact our sales department in order to choose a suitable device. The visit at our customer will allow us for detailed situation diagnosis and offering optimal solution

Application

Our rotary drum screens win recognition among customers, working in following industries:

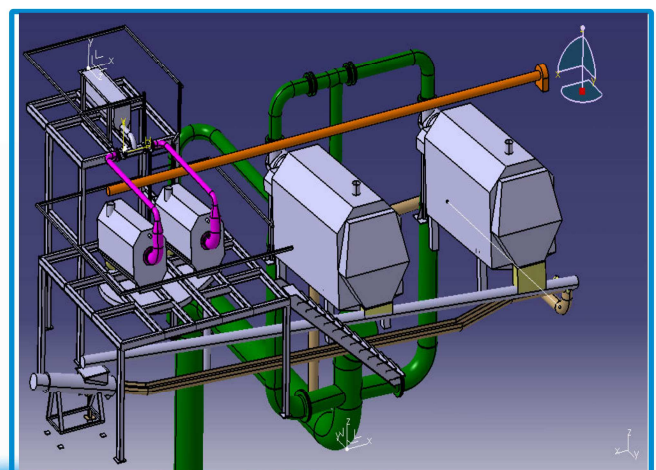
- ▶ cellulose and paper
- ▶ textile
- ▶ tanning
- ▶ sugar
- ▶ artificial products
- ▶ fruits and vegetables
- ▶ meat of poultry and fish
- ▶ brewing

The rotary drum screen with internal inflow is used for:

- ▶ purifying of municipal sewage:
 - dissolving of organic substances contained in suspensions required for evolution of microorganisms,
 - mechanical separating of solid particles from water
- ▶ surface water purifying for municipal and industrial needs
- ▶ water purifying process

Advantages:

- ▶ possibility of operation in the continuous and periodic mode,
- ▶ big capacity,
- ▶ non-pressure operations,
- ▶ compact construction,
- ▶ self-cleaning of the screens.



We kindly ask for possible detailed and readable fill with print of fields in the following form. Obtained information will allow us to realize the inquiry/order precisely as soon as possible.

(INQUIRY) / ORDER

Please e-mail or fax to:
liskewr@pftechnology.eu
Fax: +48 48 618-20-82

Subject: Date:

Contact data

Company:

Technical Person: Trading Person:

Address/Street: Zip code: City / Country:

Tel/Fax: E-mail / Website:

Basic information

Preferred device: ☐ Rotary drum screen with internal inflow ☐ Pressure filter
☐ Rotary drum screen with external inflow ☐ Static screen

Filter's selectivity [mm]

Filtered medium: Date of sending the sample to examinations :

Character of pollutions Suspension on the inlet to the filter [mg/dm³]:

Cleaning system: ☐ Run by the operator ☐ Device's protection: ☐ No
☐ Full automatic of steering ☐ Yes (Kind of protection)

Device using currently : ☐ Not required Selectivity of using device

Pump in installation : ☐ Not planned
☐ Yes (parameters)

Description of the filtration's problem

Medium parameters and conditions of buildings

Flow capacity [m³/h]: Min: Max: Inlet : Diameter [mm]: Kind of material:

Working pressure [BAR]: Min: Max: Outlet : Diameter [mm]: Kind of material:

Working temperature [°C]: Min: Max: Ventilation pipeline: Diameter [mm]: Kind of material:

Surrounding temperature [°C]: Min: Max: Overflow pipeline : Diameter [mm]: Kind of material:

Constructional and exploitation requirements

Material of filtration insert: ☐ Carbon steel
☐ Stainless steel
☐ Other (kind of steel)

Material of filter housing: ☐ Carbon steel
☐ Stainless steel
☐ Other (kind of steel)

Date / authorized person's signature / company's stamp

*I agree to teleaddress data processing for marketing and trading purposes.