

# Pressure Filtration Technology



Static Screen

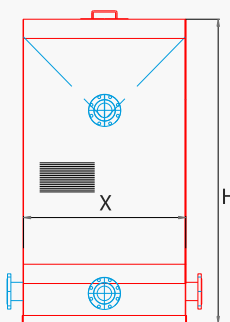
# Static Rundown Screens

The static screen with a gravitational inflow is used for separation of solid particles from the liquid. The filtered medium is given gravitationally or by a pump to an inlet chamber with overflow through which flows tangentially at slotted screen. The inlet chamber with an overflow has a task of evenly distributing the filtered medium on the whole width of the screen. The majority of pollutions are separated from the water in the top part of the screen already. The particles of pollutions, stopped by the screen, slide down the screen's surface. At the same time the remaining amount of water is removed from the pollutions by slots of the screen. The pollutions, gathering in the lower part of the screen, fall down from it gradually. Cleaning nozzle is used for a periodic cleaning of the inlet chamber.



## Types of curved static screens:

- A – with gravitational inflow, used between sizes of the slots from 0,25 up to 4 mm
- B – with pressure inflow, used between the slots from 0,100 up to 0,250 mm



Static rundown screen

Standard types	X	Y	H
SL 500	500	1000	1900
SL 750	750	1000	1900
SL 1000	1000	1000	1900
SL 1250	1250	1000	1900
SL 1500	1500	1000	1900
SL 2000	2000	1000	1900



## Construction's options of the Static Screens

- ▶ in a hermetic body with a ventilation nozzle – mainly in the wastewater treatment systems
- ▶ in a hermetic body with cleaning system – mainly for using to screens with pressure inflow and forced by aperture, e.g. in the paper industry
- ▶ with CIP installation and full process automation, e.g. in applications in the food industry

The static screen has a simple construction and does not require any source of energy to function. The screen with its body is made most often of 1.4301 materials. The size of the static screen depends on the application and a required capacity, whereas the cleaning's quality depends on the size of used slot.

## Characteristics – advantages

Our static screens are characterized:

- ▶ low purchase price and maintenance costs
- ▶ big capacity and slot selection depending on requirements
- ▶ compact and simple construction
- ▶ easy operation
- ▶ long life, lack of movable elements

## Technical parameters

Standard types	Slot				
	0,5	0,75	1,0	1,5	2,0
SL 500	5	8	15	25	33
SL 750	10	14	28	42	62
SL 1000	16	30	53	75	95
SL 1250	35	46	110	135	154
SL 1500	54	65	130	157	183
SL 2000	75	90	155	190	230

Approximate capacities of the static screens with gravitational inflow (refers to screens of type A)

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 static screens work in many branches provides of cleaning the liquids for:

- ▶ **farming:** separating and feed recycling
- ▶ **chemistry:** separation of glass wool fiber waste, plastic, rubber, polythene, resin, fillers, pigments, pharmacists, organic and inorganic materials
- ▶ **poultry farming:** feathers recycling, dehydration, separation, cleaning of water from burn systems
- ▶ **food processing industry:** separating and/or recycling specks of vegetables and meat, poultry, mushrooms
- ▶ **cellulose/paper:** wood pulp sewage, white water, wiped wood, cellulose sulphur pulp
- ▶ **tannery:** pollutions come from polishing and coats, pollutions after skin's cleaning
- ▶ **textiles:** constant particles removing from cleaning operations and colouring, cleaning of synthetics, cotton and wool
- ▶ **recycling:** removal of sand, PET, PE, PP from wash and flotation water.

We can offer optimal solutions in relation to the selection of device, slot and size of screen's profiled wire on the basis of many years' experiences with filtering the liquid and the customer's individual requirements. Depending on customers requirement and application we also offer screens manufactured from materials other than wedge wire sieve.



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**

We ask to fax for no.:

**Fax: 0048 48 618-20-71**

lub na e-mail: **sales@pfttechnology.eu**

**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/dm<sup>3</sup>]:** .....

**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 [m<sup>3</sup>/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.