

Lengthwise final sedimentation tank – Floc-In-B

KUNST DNPFI-3-K through DNPFI-6-K, typ B

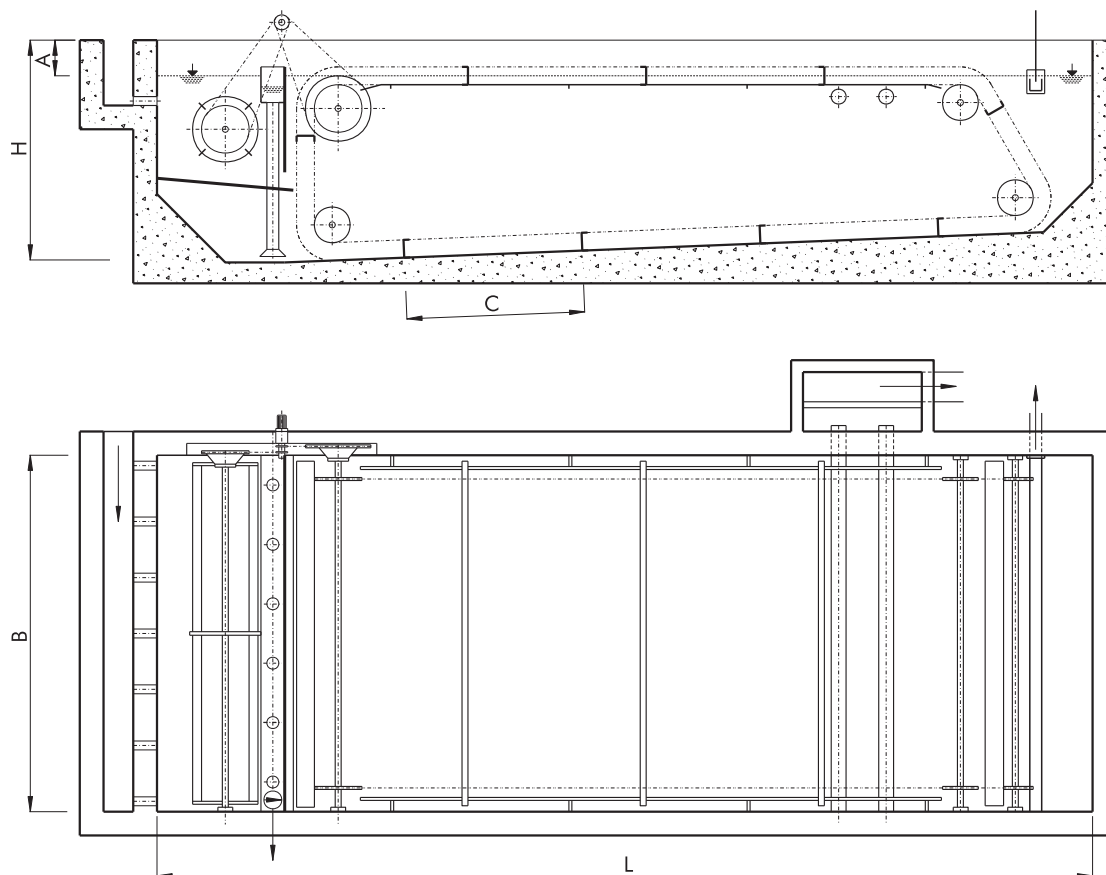


TABLE OF MAIN DIMENSIONS:

| Parameter | Designation | | Size | Size Modification |
|-------------------------|-------------|-------------------|---------------------|---------------------------|
| Tank width | B | m | 3,0 through 6,0 | 0,3 m |
| Tank length | L | m | 12,0 through 45,0 | 3,0 m |
| Tank depth | H | m | 2,4 through 4,5 | 0,3 m |
| Distance of water level | A | m | 0,6 through 1,2 | 0,2 m |
| Blade spacing | C | m | 3,0 | |
| Scraper velocity | v | m.s ⁻¹ | 0,016 through 0,040 | according to used gearbox |
| Installed load | P | kW | 0,25 through 1,1 | in accordance with size |

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APPLICATION

Lengthwise final settling tanks with plane bottom are used for gravitational separation of activated sludge as well as subsequent clarification of waste water after its biological treatment. The machinery Floc-In renewed in principle the method of outfit of lengthwise final settling tanks, and is appropriate for reconstruction of existing pools without major structural changes.

FUNCTIONAL PRINCIPLE

Waste water which contains a residual content of activated sludge flows from the previous treatment stage into the flocculator. The flocculator serves the formation of sludge flakes, improvement of the separation properties of sludge and its degasification. The sludge mixture flows from the flocculator slot, which is situated on the whole width of the flocculator and continues flowing through the reflector which funnels the flow. In order to obtain the optimum velocity gradients in the flocculator a slow-speed agitator or moderating plates or combination of both methods is used. Flowing through the lengthwise settling tank, sludge sediments gradually and is continuously conveyed by means of plastic chain scraper from the bottom of the tank to the part of tank, where the withdrawal unit is situated. In this part of tank, the scraped out sludge is withdrawn from the bottom by means of scavenge sludge gutter and conveyed to the further usage. At the same time, in the movement of the scrapper also steadily floating sludge becomes withdrawn into the sludge basin and becomes dewatered. Effluent water is withdrawn by means of a perforated dip pipe.

MATERIAL DESIGN

The standard version of the material is a combination of plastic, stainless- and hot-dip galvanized construction steel.

OPERATION AND MAINTENANCE

The operation of the facility does not require constant care. Their maintenance is in accordance with the instructions.

DELIVERY FORM

The equipment is the total DNPFI – Type B including delivery and installation of additional equipment or according to contract. The disposition of equipment (equal to the dimensions, which are listed in the table of the main dimensions) can be individually reviewed and is the subject of the technical explanation. The supplier reserves in compliance with the parameters of the equipment right for a change of deliveries contrary graphical illustrations.

DELIVERY DATE

According to contract