



INTEGRATED GRIT – SCREEN AUTOSEP DF KP

PRODUCT DESCRIPTION

The AUTOSEP DF KP is a compact unit, designed for reliable and long-lasting service, combining the functions of various complementary devices used for mechanical cleaning of wastewater.

CONSTRUCTION:

The Autosep DF KP is a modified version of the Autosep DF SP combination sand trap rotary screen, where instead of inclined rotary drum screen a perforated plate screen integrated with a screw conveyor with screenings press is employed for smaller footprint and higher output.

The device combines the functions of:

- perforated plate screen with screenings washing (optional)
- aerated horizontal grit trap
- auger conveyor screenings press (option)
- inclined auger sand conveyor
- automatic grease trap/removal system

OPERATION PRINCIPLE

Wastewater let in via inlet connection is directed onto a perforated plate screen for separation of suspended solids. The screenings are removed by moving upwards rakes for washing by a jet washing system (option) and removal through a discharge chute. An inertia rake is also provided to clean the rakes from remaining screenings. From the discharge chute, the screenings fall into screw conveyor with screenings press for dewatering and compacting.

The wastewater grit falls down into horizontal grit trap with inclined walls and it is moved by a horizontal screw conveyor to the separation part where another inclined screw conveyor takes the grit up for dewatering and, via a discharge chute, for removal into grit containers

An aeration system (option) boosts flotation of fats and other suspended organic matter to the subsequent biological treatment. Floating organic substances are collected in an arranged lengthwise fat pocket for removal by gravity system.

OPTIONS

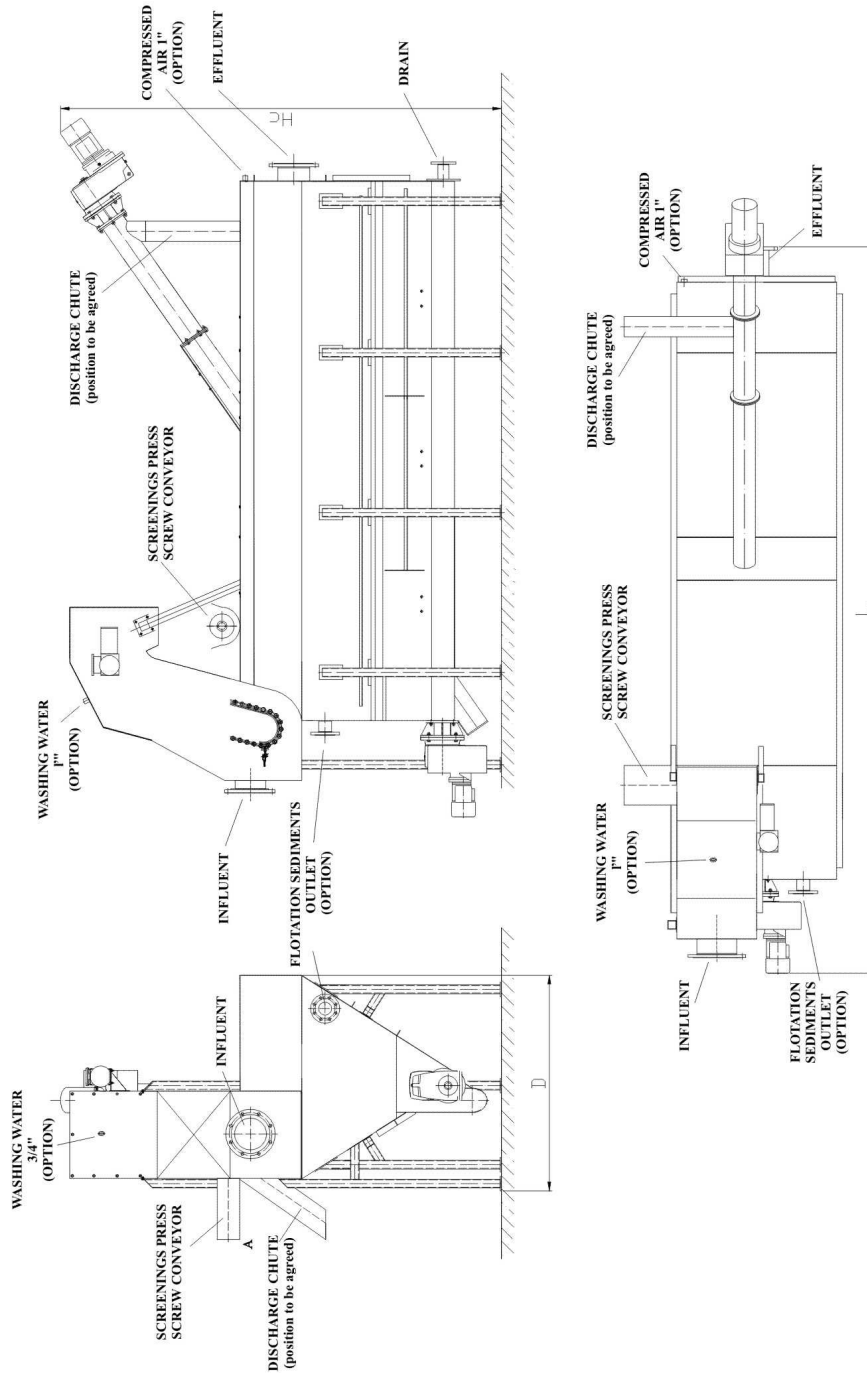
- Screenings washing system
- Auger conveyor with screenings press
- Aeration system
- Flotation sludge removal system
- Thermal insulation with heating system

ADVANTAGES

- User friendly design
- High effectiveness
- No attention needed
- Robust and sturdy design
- Low power consumption
- High output
- A small footprint combination of four different devices



INTEGRATED GRIT – SCREEN AUTOSEP DF KP



SPECIFICATIONS

Parameter	Flow Q [l/s]	Total height Hc [mm]	Length L [mm]	Width D [mm]	Connection diameters			Gear motor power		
					Influent Dn	Effluent Dn	Drain Dn	Perforated plate screen [kW]	Sand separator [kW]	Horizontal conveyor [kW]
DF KP 20	20	3050	4350	850	150	150	65	0,75	0,75	0,55
DF KP 40	40	3050	5600	850	200	200	65	1,1	1,1	0,55
DF KP 50	50	3050	6700	850	250	250	65	1,1	1,1	0,75
DF KP 60	60	3050	6700	1200	300	300	80	1,1	1,1	0,75
DF KP 70	70	3050	7700	1200	350	350	80	1,1	1,1	0,75

Specifications depend on volume and type of wastewater. Each unit is individually designed to fulfil application and design requirements.