

DYNAMIC FILTER PRODUCT CATALOGUE



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Technical catalogue

Self-Cleaning Filter DYNAMIK DF

Self-Cleaning Filter DYNAMIK DF

Lamella Separator DF SLA / SLZ / SLW

Lamella Separator DF SLA / SLZ / SLW

Horizontal Sludge scraper DF ZD

Horizontal Sludge Scraper DF ZD

Filtration

Multifunctional Vertical Pressure Filter DF FPW Pressure Filtration Kit DF FP Vertical Pressureless Filter DF FPB Self-Cleaning Filter DYNAMIK DF MULTI Filtration Bed MULTIMAN 3M Filtration Bed MULTIMAN 2N

Water Aeration

Aeration Block DF WA Aeration Block DF BA

Water Storage

Horizontal Water Storage Tank DF ZWH Above Ground Water Storage Tank DF ZWV

Sand Traps

Autosep Sand Trap DF MULTI SB / SP / KP Autosep Sand Trap DF SB / SP / KP Autosep Sand Trap DF SWB / SWP Autosep Sand Trap DF BW

Mechanical Wastewater Treatment

Screening Sieve DF B / D Vertical Spiral Sieve DF SP Spiral Duct Sieve DF SSP / DF SSB Duct Louver DF KS Rotary Drum Sieve DF SB0 Drum Sieve DF SB Flow Sieve DF BV / DV

Screenings Processing

Wash Press DF PR Screenings Press DF PU

Sand Separation

Centrifugal Sand Trap With Sand Separator DF PSZ Centrifugal Sand Trap With Worm Conveyor DF PSS Centrifugal Sand Trap DF PSK Sand Separator DF SW Sand Separator DF SG Sand Wash DF PP



SELF-CLEANING FILTER DYNAMIK DF

df

Application

The self-cleaning filter DYNAMIK DF is a pressureless device of constant work cycle adapted to the water and wastewater treatment processes. The device size adjustment as well as kind and quantity of filter bed ensure reduction of suspension, turbidity, colour, as well as iron, manganese compounds, ammonium ions and other values to normative. The filter is used also for the final biological wastewater treatment.

Functioning

Raw water/wastewater/ rinsing water are poured into the device through the inlet stub pipe situated in upper part of shell and then directed to the distributors system which distribute the fluid in all the filter surface. The fluid flowing upwards is mechanically cleaned by the filtration bed of grain size and height adjusted for the individual technological systems. The filtrate is transferred outside the device through the controlled overflow duct in the upper device part. The contaminated sediment is gathered in the lower bed section and transferred by the air pump to the air-water wash bath. The patented structure solution of the wash bath ensures high bed cleaning efficiency with minimum cleaning water consumption. The bed cleaning water is taken from the filtrate inside the device - so there is no need of installing any additional washing systems. The contaminated sand is intensively cleaned in the air-water wash bath labyrinth. The rinsing water from the sand are directed outside, while cleaned sand drops to the upper bed layer. As a result, the sand bed is in constant movement down, and the water/wastewater treatment and sand cleaning processes happen simultaneously and constantly without a requirement of being controlled.

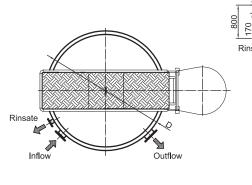
The presentation of Self-Cleaning Filter DYNAMIK DF may be found on our website www.dynamikfiltr.pl

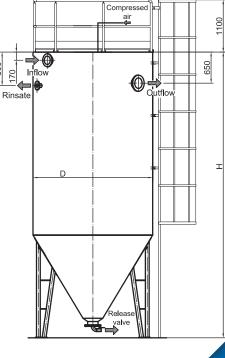
Equipment

- The innovative filtered fluid distribution system is equipped in the inspection plugs making possible periodic maintenance without necessity of removing bed from the device.
- The air pump used for contaminated bed transportation.
- Air-water sand wash bath.
- Power supply and control panel.
- Servicing bridge.
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Continuous filtration with constant filtration bed cleaning.
- Highly efficient removal of suspension, turbidity, colour, as well as compounds of iron, manganese, ammonium ions and others, reduction of suspension and BOD5 in the final wastewater treatment process.
- Possibility of nitrification and denitrification in order to remove nitrogen compounds from the wastewater (special version).
- Unique, patented air-water sand wash bath structure.
- Simple structure and easy operation.
- Compatibility with Lamella Separator.
- No need of automatic valves.
- Higher filtration layers.
- Pressureless device no necessity of UDT (Office of Technical Inspection) control
- The device used in contact coagulation systems.
- Elimination of "initial filtrate" losses.
- Minimum maintenance costs.
- No loose parts.
- PZH (National Institute of Hygiene) certificate.







Specification

| | | N | Elle el | D | | | | nlet stub pipe: | 5 | | Bed |
|-----------|---|------------------------|----------------------------|-----------|-----------|------------------------|-----------|-----------------|------------|-----------------------|----------------|
| Туре | | Nominal flow [m³/h] | Filtration surface [m²] | D [mm] | H [mm] | Air demand [Nl/min] | DN supply | DN filtrate | DN rinsate | Device weight [kg] | volume [m³] |
| | D | | | | 7000 | | | | | 2450 | 16,3 |
| DF 500-05 | С | 55 | 5,5 | 2650 | 6500 | 80 | | | | 2300 | 13,5 |
| | В | | | | 6000 | | | | | 2150 | 10,8 |
| | D | | | | 7000 | | | | | 2350 | 14,4 |
| DF 500-00 | C | 50 | 4,9 | 2500 | 6500 | 70 | 200 | 200 | | 2200 | 12,0 |
| | B | | | | 6000 | | | | | 2050 | 9,5 |
| | D | | | | 6500 | | | | | 2000 | 11,5 |
| DF 400-00 | C | 40 | 4,0 | 2250 | 6000 | 60 | | | 65 | 1900 | 9,5 |
| | В | | | | 5500 | | | | | 1800 | 7,5 |
| DF 300-00 | C | 30 | 2,9 | 1920 | 5800 | 55 | 150 | 150 | | 1700 | 6,7 |
| DT 300-00 | В | | 2,7 | 1720 | 5000 | | 150 | 130 | | 1600 | 5,3 |
| DF 200-00 | C | 20 | 2,0 | 1600 | 5000 | 45 | | | | 1400 | 4,6 |
| DT 200 00 | В | 20 | 2,0 | 1000 | 4200 | 40 | 125 | 125 | | 1300 | 3,6 |
| DF 150-00 | C | 15 | 1,6 | 1440 | 5000 | 40 | 125 | 125 | | 1300 | 3,7 |
| DT 130-00 | В | 15 | 1,0 | 1440 | 4200 | 40 | | | | 1200 | 2,8 |
| DF 70-00 | B | 7 | 0,7 | 960 | 4000 | 20 | 65 | 80 | 40 | 800 | 1,2 |
| 01-70-00 | A | , | 0,7 | 700 | 3300 | 20 | 00 | 00 | 40 | 700 | 0,9 |
| DF 30-00 | В | 3 | 0.3 | 640 | 3500 | 15 | 32 | 65 | 32 | 300 | 0,5 |
| DI-30-00 | A | 5 | 0,5 | 040 | 2800 | 13 | 32 | 0.0 | 52 | 180 | 0,35 |

Depending on type selected, the filter may be filled with filtration material of deferent heights: A 1000mm | B 1500mm | C 2000mm | D 250mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings









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LAMELLA SEPARATOR DF SLA/SLZ/SLW

df

Lamella Separator DF SLA/SLZ/SLW

Lamella Separator DF SLA/SLZ/SLW is a highly efficient multistream separator used in water and wastewater treatment processes, as well as for rinse water recovery from self-cleaning, pressure and gravitational filters. Lamella inserts, assembled under necessary angle, ensure separation of suspension from water or wastewater. The device is produced in three different types: SLA, SLZ, SLW.

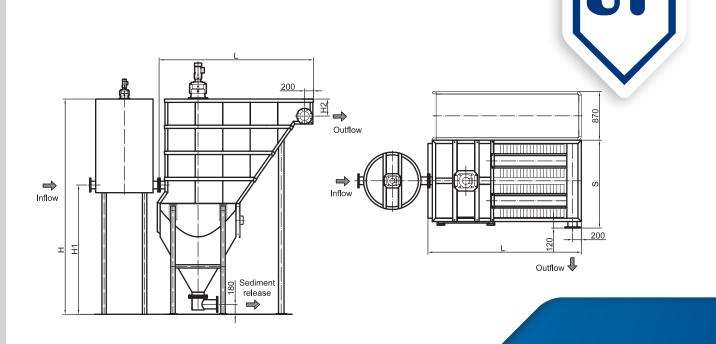
Functioning

Raw water/wastewater/rinse water is poured into the flocculation tank, where quick and slow mixing processes occur. Thanks to the specially shaped internal surfaces, the optimal use of the reaction chamber is achieved. The fluid is then gravitationally transferred to the separator chamber, where it is equally distributed to multiple streams flowing between the Lamella inserts. The contaminations sediment on packages surfaces and slip freely to the sedimentation tank bottom. Inside the sedimentation section there is a rotary scraper which preliminarily condenses the sediment. The sludge is periodically drained from the device, automatically or manually. The cleaned fluid flows to the inflow channels located in the upper part of the device, from where it is transferred outside the separator. The sludge is cyclically removed depending on its volume.

Equipment

- SLA: device equipped with conic sediment collector [sludge scraper as an option].
- SLZ: device equipped with cylindrical sediment collector [sludge scraper as a standard].
- SLW: Lamella packages to be assembled in vertical and horizontal sedimentation tanks.
- Lamella packages are made of steel or plastic.
- Optionally, flocculation tank equipped with quick rotation mixing chamber [option] and slow rotation mixing chamber [standard].
- Power supply control panel.
- Servicing bridge.
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Hydraulic load: 0,5/1,5m³/m²/h.
- 90% surface saved in comparison to the classic horizontal sedimentation tank.
- 50% investment cost decrease.
- Easy and quick assembling.
- Water/wastewater treatment high efficiency.
- Compatible with self-cleaning, pressure or gravitational filters.
- Adaptable to the existing types of sedimentation tanks. Low maintenance cost.
- PZH (National Institute of Hygiene) certificate.



Specification

| Туре | in fu | imentat Inction reen the | of dista | ance | H | | | H2 L | | Inlet stub pipes | | | Motored | Device weight [kg] | |
|------------|----------|--------------------------------|----------|-----------|------|------|------|------|------|------------------|---------------|---------------------------|-------------------|---|-------------|
| | 50 mm | 60 mm | 80 mm | 100 mm | [mm] | [mm] | [mm] | [mm] | [mm] | DN Inflow | DN outflow | DN sediment release | Sludge scraper | Flocculation tank mixers [option] | weight [kg] |
| DF SLA 10S | 10 | 8 | 6 | 5 | 3300 | 2200 | 250 | 2200 | 1300 | 125 | 125 | 100 | 0,12 | 0,12 + 0,18 | 1200 |
| DF SLA 15S | 15 | 12 | 9 | 7 | 3500 | 2300 | 250 | 2400 | 1450 | 125 | 150 | 100 | 0,12 | 0,12 + 0,18 | 1500 |
| DF SLA 25S | 25 | 21 | 15 | 12 | 4000 | 2400 | 320 | 2800 | 1500 | 125 | 150 | 150 | 0,25 | 0,18 + 0,18 | 1800 |
| DF SLA 40S | 40 | 33 | 25 | 20 | 4800 | 3100 | 450 | 3400 | 1900 | 125 | 150 | 150 | 0,37 | 0,18 + 0,25 | 3200 |
| DF SLA 60S | 60 | 50 | 37 | 30 | 5500 | 3200 | 500 | 4000 | 1900 | 150 | 200 | 150 | 0,37 | 0,25 + 0,37 | 4500 |
| DF SLZ 10S | 10 | 8 | 6 | 5 | 3400 | 1800 | 250 | 2600 | 1800 | 125 | 125 | 100 | 0,12 | 0,12 + 0,18 | 1400 |
| DF SLZ 15S | 15 | 12 | 9 | 7 | 3600 | 1900 | 250 | 2800 | 1900 | 125 | 150 | 100 | 0,12 | 0,12 + 0,18 | 1700 |
| DF SLZ 25S | 25 | 21 | 15 | 12 | 4100 | 2000 | 320 | 3200 | 2000 | 125 | 150 | 150 | 0,25 | 0,18 + 0,18 | 2300 |
| DF SLZ 40S | 40 | 33 | 25 | 20 | 4700 | 2300 | 450 | 3700 | 2400 | 125 | 150 | 150 | 0,25 | 0,18 + 0,25 | 3500 |
| DF SLZ 60S | 60 | 50 | 37 | 30 | 5800 | 2800 | 500 | 4400 | 2400 | 150 | 200 | 150 | 0,37 | 0,25 + 0,37 | 5000 |

* In the SLZ separator the S dimension constitutes the total width of the device including the sediment containers. The selection of the flocculation tank is individual, based on treated fluid type and output.

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Options









HORIZONTAL SLUDGE SCRAPER DF ZD

Application

The horizontal sludge scraper is a solution for condensing and removing bottom sludge. The device is used either in water or sewage and industrial wastewater treatment stations. Scraper of unique triangular concave shaped ensure efficient sludge movement in following sedimentation tanks: post-coagulation, preliminary, secondary, as well as desludgers and horizontal sand traps.

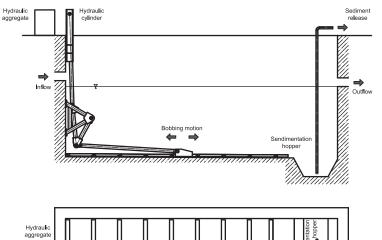
Functioning

The movement of sludge collected on the bottom is performed with two evenly assembled scraping parts. They cover the whole chamber bottom in a form of bobbing motion frame which slows down extremely when approaching the contamination release point - 0,1/1,0 m/min, and turning motion is performed three times quicker. Thanks to the unique scrapers shape the sludge is delicately moved towards the release point with a concave parts of them, and the sludge is carried over the scrapers in turning phase thanks to the triangular shape of the board. The innovative structure ensures continuous, constant and undisturbed transporting the sludge towards the release point built of the sedimentation hopper. The additional advantage caused by the above solution is a small whirl created within the sweeper which additionally condenses the sludge. The device may be additionally equipped with bottom measurement and automatic sludge release systems.

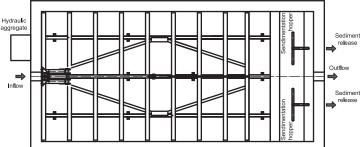
Equipment

- Horizontal sliding mechanism equipped with set of triangular-concave shaped scrapers.
- Hydraulic cylinder integrated with torque transferring structure.
- Hydraulic aggregate.
- Power supply-control panel.
- Oil leak prevention system.
- Sludge level and density sensor [option].
- Sludge release system using the air, electric or submerged pumps [option].
- Material: stainless steel. Other materials may be used on demand.

- Triangular-concave sweeping scrapers.
- Small number of loose parts.
- Loose parts made of abrasion resistant materials.
- Transportability of sludge of 0,1÷9% of dry mass.
- Condensation and stabilisation of sludge.
- Compatible with Lamella SLW and floating sludge scrapers.
- Adjustable to the existing sedimentation tanks.
- Low maintenance costs.
- Equal scraping surface.
- High efficiency.
- PZH (National Institute of Hygiene) certificate.







Specification

| Scraper length | up to 50m |
|--------------------------|--|
| Single scraper width | up to 5 m |
| Scraping movement length | 0,5 – 0,75 m |
| Bobbing motion velocity | individually adjusted |
| Drive | hydraulical aggregate or electrical motor [option] |
| Sludge release | air, electric or submerged pumps |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









MULTIFUNCTIONAL VERTICAL PRESSURE FILTER DF FPW

Application

Multifunctional Vertical pressure filter DF FPB is a device used for rapid water filtration. Unique structure dividing filter in two autonomic chambers makes two stages of filtration possible in one device.

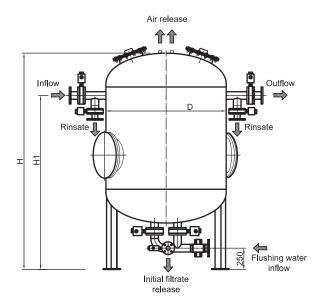
Functioning

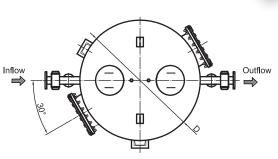
Water is transferred to the filter through the upper stub pipe, form where it is equally distributed on the filtration bed. Filtration process is carried out in the same manner as in the traditional pressure filter, where water flows down through the filtration material being mechanically cleaned in the same time. Filtrate outflow after first treatment stage is carried through the stub pipe located in lower end cap, where preliminarily cleaned water is supplied through an inflow to the second chamber, where it is transported up through the filtration bed. Treated water is transferred through the duct located in the filtration chamber upper part. Both, filtration and flushing, are automatically regulated. Valves regulation and switching sequences are controlled by the control module provided together with the device.

Equipment

- The tank equipped with two autonomic filtration chambers
 Individually selected filtration bed, depending on treated
- water physical and chemical parameters. Set of automatically controlled valves.
- Air valves.
- Manometers
- Power supply-control panel with control module and wiring.
- Material: stainless steel. Other materials may be used on demand.

- Patented in Polish Republic Patent Office unique solution enabling two stages of filtration in single device.
- Autonomic flushing of each chamber if required
- Option of simultaneous filtration in both chambers
- Integrated filter control system.
- Ergonomic structure in comparison with traditional filtration systems.
- Removing suspension, turbidity, colour, as well as iron, manganese, ammonium ion and others.
- Pipelines system simplification.
- Purchase and maintenance cost decrease in comparison with two adequate separate traditional filters.





Specification

| Ŧ | Total filter | Single | D | н | Н, | | | | Weight | Working | | |
|-------------|--------------|-------------------------|------|------|------|-------------|--------------|---------------|----------------------|---------------|------|------------------|
| Туре | surface [m²] | chamber surface [m²] | [mm] | [mm] | [mm] | Inlet DN | Outlet DN | Rinsate DN | Flushing water DN | Release DN | [kg] | capacity [m³] |
| DF FPW 1400 | 1,54 | 0,77 | 1400 | 2650 | 2050 | 65 | 65 | 100 | 100 | 80 | 1100 | 2,8 |
| DF FPW 1600 | 2,00 | 1,00 | 1600 | 2750 | 2100 | 80 | 80 | 100 | 100 | 80 | 1300 | 3,7 |
| DF FPW 1800 | 2,54 | 1,27 | 1800 | 2850 | 2150 | 80 | 80 | 100 | 100 | 80 | 1600 | 4,9 |
| DF FPW 2000 | 3,14 | 1,57 | 2000 | 3050 | 2300 | 80 | 80 | 150 | 150 | 100 | 2100 | 6,3 |
| DF FPW 2200 | 3,80 | 1,90 | 2200 | 3150 | 2350 | 100 | 100 | 150 | 150 | 100 | 2400 | 7,8 |
| DF FPW 2400 | 4,52 | 2,26 | 2400 | 3250 | 2400 | 100 | 100 | 150 | 150 | 100 | 2700 | 9,6 |
| DF FPW 2800 | 6,16 | 3,08 | 2800 | 3450 | 2500 | 100 | 100 | 150 | 150 | 100 | 4000 | 13,9 |
| DF FPW 3000 | 7,07 | 3,53 | 3000 | 3550 | 2550 | 125 | 125 | 150 | 150 | 100 | 4400 | 16,5 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









PRESSURE FILTRATION KIT DF FP

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Application

Pressure Filtration Kit DF FP is designed for rapid filtration. The selection of the filtration material ensures the unfailing work of the device with small investment costs. The device is provided in two versions: simplified - filtration tank, or complete - filtration tank with filtration bed.

Functioning

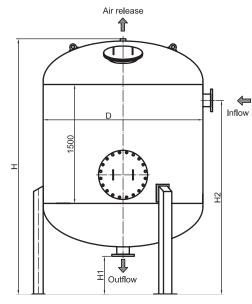
Water is provided to the kit through the inlet stub pipe located in the upper part of shell, where from it is distributed equally on all the filtration bed surface. The contaminations in water are held on the filtration material and cleaned fluid is transferred outside the device with lower stub pipe. Filtration kit may be equipped either with drainage layers or pipes. The selection of filtration bed, its granulation and height depend on physicalchemical parameters of water. The kit may work either with single- and double-media bed.

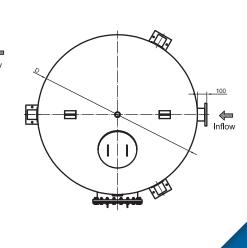
Optionally the kit may be equipped with the "air-bubble supporting" system inside the device.

Equipment

- Inlet, outlet, release, compressed air [option] stub pipes.
- "Air-bubble support" system [option]
- Inspection or charging stub pipe.
- Filtration drainage layers or pipes.
- Filtration bed [option].
- Fittings [option].
- Survey and control equipment [option].
- Manometers [option].
- Air release valve [option].
- Material: stainless steel. Other materials may be used on demand.

- Removal of suspension, turbidity, colour, as well as iron, manganese compounds, ammonium ions and others.
- Wide range of used materials: stainless steel, painted or zinc coated engineering steel, chemically resistant materials.
- Plastic or stainless steel filtration nozzles with filtrating slit 0,2 or 0,5 mm wide.
- Nominal pressure 6 bar or 10 bar [option].
- Recognised and tested solutions.
- Low investment and maintenance costs.
- PZH (National Institute of Hygiene) certificate.





Specification

| Tana | Filtration | D | н | H1 | H2 | Stub | pipes | Weight | Working |
|------------|--------------|------|------|------|------|-------------|--------------|--------|----------------|
| Туре | surface [m²] | [mm] | [mm] | [mm] | [mm] | DN inlet | DN outlet | [kg] | volume [m³] |
| DF FP 1000 | 0,78 | 1000 | 2500 | 300 | 1900 | 65 | 65 | 500 | 1,5 |
| DF FP 1200 | 1,13 | 1200 | 2600 | 320 | 1970 | 80 | 80 | 650 | 2,2 |
| DF FP 1400 | 1,54 | 1400 | 2700 | 320 | 2000 | 80 | 80 | 800 | 3,2 |
| DF FP 1600 | 2,00 | 1600 | 2900 | 360 | 2100 | 100 | 100 | 1000 | 4,2 |
| DF FP 1800 | 2,54 | 1800 | 3000 | 360 | 2160 | 100 | 100 | 1300 | 5,5 |
| DF FP 2000 | 3,14 | 2000 | 3100 | 360 | 2200 | 100 | 100 | 1700 | 7,1 |
| DF FP 2200 | 3,80 | 2200 | 3250 | 440 | 2340 | 150 | 150 | 2100 | 8,8 |
| DF FP 2400 | 4,52 | 2400 | 3350 | 440 | 2400 | 150 | 150 | 2300 | 10,8 |
| DF FP 2800 | 6,16 | 2800 | 3600 | 440 | 2500 | 150 | 150 | 3200 | 15,5 |
| DF FP 3000 | 7,07 | 3000 | 3700 | 440 | 2550 | 150 | 150 | 3800 | 18,2 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings







Options





Drainage layers





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VERTICAL PRESSURELESS FILTER DF FPB

Application

Vertical pressureless filter DF FPB is a device used for rapid water filtration. Depending on filtration material chosen the device may be used for treatment of water with increased content of iron, manganese ammoniac as well as with suspension, turbidity and colour. Because of its tight structure, unlike traditional open filters, the device may filter ozonised water without increasing ozone condensation in the air around.

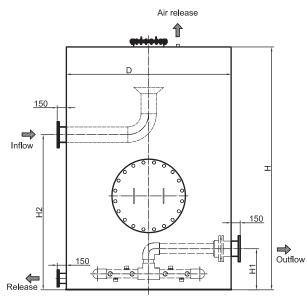
Functioning

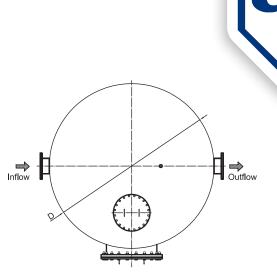
Water is transferred to the filter through the upper stub pipe, form where it flows down to the filtration bed. Fluid flowing downwards is cleaned by the filtration material. Selection of the filtration bed, its granulation, filtration layer thickness is dependent on water physical and chemical parameters, as well as on technological process implemented. The filtrate release is carried out through the filtration nozzles. The filter may completely tight which makes it useful in the final ozonised water treatment process stage as a carbon filter.

Equipment

- Inlet, outlet, release, compressed air stub pipe [option],
- Charging and inspection hatches.
- Filtration drainage pipes.
- Filtration bed [option].
- Survey and control automated equipment and fittings [option].
- Residual ozone destruction system [option].
- Material: stainless steel. Other materials may be used on demand.

- Removing suspension, turbidity, colour, as well as compounds of iron, manganese, ammonium ion and others.
- Wide range of used materials: stainless steel, painted or zinc coated engineering steel, chemically resistant materials.
- Plastic or stainless steel filtration nozzles with filtrating slit 0,2 or 0,5 mm wide.
- Low investment and maintenance costs.
- PZH (National Institute of Hygiene) certificate.





Specification

| Ture | Filtration surface | D | Н | Н1 | H2 | | Stub pipes | | Weight | Working |
|-------------|-----------------------|------|------|------|------|-------------|--------------|---------------|--------|----------------|
| Туре | [m ²] | [mm] | [mm] | [mm] | [mm] | DN inlet | DN outlet | DN Rinsate | [kg] | volume [m³] |
| DF FPB 1000 | 0,78 | 1000 | 2500 | 500 | 1800 | 65 | 65 | 32 | 500 | 1,65 |
| DF FPB 1200 | 1,13 | 1200 | 2500 | 500 | 1800 | 80 | 80 | 32 | 570 | 2,37 |
| DF FPB 1400 | 1,54 | 1400 | 2500 | 500 | 1800 | 80 | 80 | 40 | 650 | 3,23 |
| DF FPB 1600 | 2,00 | 1600 | 2500 | 500 | 1800 | 100 | 100 | 40 | 750 | 4,22 |
| DF FPB 1800 | 2,54 | 1800 | 2500 | 500 | 1800 | 100 | 100 | 40 | 850 | 5,34 |
| DF FPB 2000 | 3,14 | 2000 | 2500 | 500 | 1800 | 100 | 100 | 40 | 950 | 6,60 |
| DF FPB 2200 | 3,80 | 2200 | 2500 | 500 | 1800 | 150 | 150 | 50 | 1100 | 7,98 |
| DF FPB 2400 | 4,52 | 2400 | 2500 | 500 | 1800 | 150 | 150 | 50 | 1500 | 9,50 |
| DF FPB 2800 | 6,16 | 2800 | 2500 | 500 | 1800 | 150 | 150 | 50 | 1800 | 12,93 |
| DF FPB 3000 | 7,07 | 3000 | 2500 | 500 | 1800 | 150 | 150 | 50 | 2000 | 14,84 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









SELF-CLEANING FILTER DYNAMIK DF MULTI

Application

Self-cleaning Filter DYNAMIK DF Multi is a multi-stream pressureless device of constant operation used for water treatment. Large filtration surface with continuous bed cleaning process constitutes an efficient alternative for the traditional open filters.

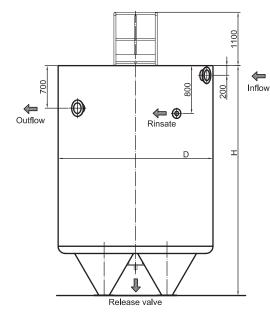
Functioning

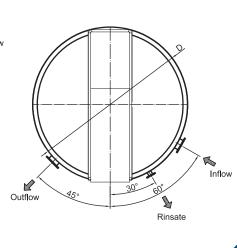
Multi filter is a continuation of the DYNAMIK DF filters concept, which helped to preserve the same functions. Implementation of DF Multi filters enabled to obtain larger filtration surfaces with slightly increased device dimensions. The above has been achieved thanks to four minor lower cones and four autonomic, parallel bed cleaning systems.

Equipment

- Innovative filtrated fluid distribution system, equipped with inspection plugs enabling periodical maintenance without removing bed from the device.
- Four air pumps used for contaminated bed transportation.
- Four air-water sand wash baths.
- Power supply and control panel.
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Large filtration surface in relatively small device.
- Saved space in comparison with single filters of similar filtration surface.
- Continuous filtration with constant filtration bed cleaning process.
- Highly efficient removal of suspension, turbidity, colour, as well as compounds of iron, manganese, ammonium ions and others, reduction of suspension and BOD5 in the final wastewater treatment process.
- Possibility of nitrification and denitrification in order to remove nitrogen compounds from the wastewater (special version).
- Simple structure and easy operation.
- Low operation costs.
- No automatic valves and complicated operations systems necessary.
- Higher filtration payers in comparison with the conventional filters.
- Pressureless device no necessity of UDT (Office of Technical Inspection) control
- Device used in contact coagulation, elimination of "first filtrate" losses.
- No loose parts.
- PZH (National Institute of Hygiene) certificate.





Specification

| | | Filtration | D | Н | | Stub tubes | | Weight |
|---------------|---|---------------------------|------|------|----------|------------|------------|--------|
| Туре | | surface [m ²] | [mm] | [mm] | DN inlet | DN outlet | DN rinsate | [kg] |
| DF MULTI 800 | С | 0 0 | 3200 | 4700 | 200 | 200 | 80 | 3900 |
| | D | 8,0 | 3200 | 5200 | 200 | 200 | 80 | 4200 |
| DF MULTI 1000 | С | 10,0 | 3600 | 4850 | 200 | 200 | 80 | 4500 |
| | D | 10,0 | 3000 | 5350 | 200 | 200 | 80 | 4800 |
| | С | 10 F | (000 | 5000 | 050 | 050 | 00 | 5000 |
| DF MULTI 1250 | D | 12,5 | 4000 | 5500 | 250 | 250 | 80 | 5200 |
| | С | 1/ 0 | (200 | 5100 | 250 | 250 | 00 | 5800 |
| DF MULTI 1400 | D | 14,0 | 4200 | 5600 | 250 | 250 | 80 | 6100 |

Depending on type selected, the filter may be filled with filtration material of different heights: C 2000mm | D 250mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.













Application

Manganese dioxide catalytic MULTIMAN 3M bed is a highly efficient natural filtration granulate, composed mainly of manganese ore. MULTIMAN 3M is used in treatment of potable water with high manganese and iron content. It may be used either in quick pressure filtration or open and closed gravitational filters. MULTIMAN 3M bed complements filtration gravel, anthracite or MULTIMAN 2N in single stage filtration. In double stage filtration it is used in the second stage as a separate demanganising layer.

Functioning

MULTIMAN 3M bed functions as a insoluble catalyst accelerating the manganese compounds oxidation which enables its separation from water in form of insoluble manganese dioxide and its sorption on bed surface and in its deeper layers.

The bed has large specific surface, which results with efficient removal of colloidal structures which cause raw water turbidity and extending the filtering cycle which brings obvious economic profits.

MULTIMAN 3M is an insoluble catalyst, so it doesn't wear out! It is revered by air – water countercurrent washing, which removes suspension collected on bed granulate surfaces

Technology

Bed height (filtration layer thickness) and filtration speed is adjusted on the basis of raw water physical and chemical parameters.

- No bed start-up necessity the bed works right after being applied.
- No necessity of chemical recovery.
- No necessity of chemical substances to be applied in raw water.
- Easy applicable in the existing filtration systems, water treatment stations with no need to reconstruct them.
- Thanks to the large specific surface the filtering cycle extends, which brings economical profits.
- High tolerance for contaminations condensation changes in the fluid.

Specification

| | MULTIMAN 3M | | | | | |
|---------------------------|---|--|--|--|--|--|
| Name | Manganese dioxide, catalytic bed, demanganiser, pyrolusite | | | | | |
| Appearance | brown – black granulate, irregular shape, porous surface, sharp edges | | | | | |
| Granulation | standard: 1,0-3,0 mm and 0,8-2,5 mm | | | | | |
| Bulk density | ar. 2,0 Mg/m³ | | | | | |
| Specific gravity | 4,0 – 4,2 Mg/ m³ | | | | | |
| SiO ₂ content | to 82 % | | | | | |
| Porosity | up to 3% | | | | | |
| Package | bags 25, 50 kg on palettes | | | | | |
| Applied filtration speeds | 7-15 m/h | | | | | |
| Bed expansion | 25% | | | | | |
| Water ph | to 7,0 | | | | | |
| Max. Fe content | up to 15 mg Fe/dm³ | | | | | |
| Max Mn content | up to 1,5 Mn/dm³ | | | | | |



Product photos







www.dynamicfilter.ie



Application

MULTIMAN 2N filtration bed consists mainly of cryptocrystalline silica. It has very wide specific surface, much larger than the quartz sand. MULTIMAN 2N is used as a filler in many kinds of filters: gravitational [open and closed], pressure; it is used for treatment of water with high iron and ammonium ion content. Used together with MULTIMAN 3M catalytic bed it forms a multilayer [one / multiple stage filtration] / multistage [two stage filtration] system for raw water deironing, demanganising and ammonium ion removal, and thanks to high porosity it may be also used to remove colloidal structures causing raw water turbidity.

Functioning

MULTIMAN 2N filtration bed is used as the first filtration layer used for suspension (e.g. oxidised iron) holding, thanks to its large internal surface being great environment for the bacterial microflora helping in ammonium ion/ammoniac oxidising – nitrifying bacteria. Thanks to the density difference comparing to MULTIMAN 3M, the filtration layers do not mix during the process. High porosity extends the filtering cycle and accelerates the process.

Technology

Bed height (filtration layer thickness) and filtration speed is adjusted on the basis of raw water physical and chemical parameters.

- Thanks to the large specific surface the filtering cycle extends, which brings economical profits.
- High tolerance for contaminations condensation changes in the fluid.
- Easy applicable in the existing filtration systems, in operating water treatment stations without necessity of their reconstruction.
- High weight capacity.
- Natural product.
- Possibility of increased filtration speeds.

Specification

| | MULTIMAN 2N |
|----------------------------|--|
| Appearance | grey – white granulate, irregular shape, porous surface |
| Granulation | standard: 0,8-2,00mm other granulation on customer's demand |
| Bulk density | 0,85-1,1Mg/m³ |
| Specific gravity | 2,65 Mg/ m³ |
| Zawartość Si0 ₂ | above 94% |
| Porosity | up to 30% |
| Package | bags 25 kg on palettes or big bags 1 m³ |
| Applied filtration speeds | 7-20 m/h |
| Bed expansion | 25% |
| Max. Fe content | up to 15 mg Fe/dm³ |
| Max NH3 content | up to 3,0 NH3/dm³ |



Product photos









www.dynamicfilter.ie

AERATION BLOCK DF WA

df



Water aeration

Application

Aeration Tower DF WA is a pressureless device used for water aeration and degasification equipped with the injection air-water mixing system. The device may be also used as a reactor. The tower structure enables using it both, in indoor and outdoor conditions.

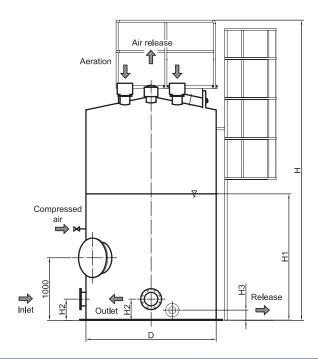
Functioning

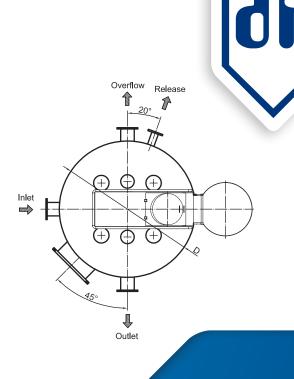
Water is supplied to the lower part of tower, where from it is transferred to the upper part, where injection air-water mixer is assembled. Then, the air-water mixture is transferred to the cascade-splash grate where it is intensively sprayed. Naturally aerated and degasified water is collected in the reactor, where compounds oxidation and degasification processes are continued. The natural water aeration is supported by the extraction fans assembled on the tower top. In order to limit suspension sedimentation the device bottom is equipped with grate loosening the sediment. The water level is adjusted regarding the hydrostatic, conductometric or floating probes indications.

Equipment

- Water aeration injector.
- Internal piping.
- Exhaust fans supporting water aeration/degasification process.
- Pneumatic sediment loosening system.
- Reactor chamber adjustable to water individual chemical and physical parameters [option].
- Hydrostatic/conductometric/floating probes water level measuring [option].
- Power supply-control panel [option].
- Winter package enabling outdoor installation of the device (option).
- Material: stainless steel. Other materials may be used on demand.

- Air-water mixing injector.
- Cascade-splash grates system.
- Outlet water aeration grade 8-11mg0₂/dm³.
- Iron, manganese, ammonium ion and other compounds oxidation.
- Highly efficient [more than the pressure aeration] removal of aggressive CO₂ and hydrogen sulphide.
- Low maintenance costs.
- PZH (National Institute of Hygiene) certificate.





Specification

| | | Ц | H1 | H2 | НЗ | | Stub pip | es | | Weight | Total volume |
|------------|--------|-------|-------|-------|-----------|-------|----------|----------|---------|--------|-------------------|
| Туре | D [mm] | [mm] | [mm] | [mm] | [mm] | DN | DN | DN | DN | [kg] | [m ³] |
| | | | Linni | Linni | Linning . | inlet | outlet | overflow | release | [Kg] | 000.1 |
| DF WA 1000 | 1000 | 10500 | 2 | 180 | 120 | 150 | 150 | 150 | | 2500 | 5,5 |
| DF WA 1500 | 1500 | 10500 | lalı | 210 | 120 | 200 | 200 | 200 | | 2900 | 12,0 |
| DF WA 2000 | 2000 | 11000 | id u | 240 | 120 | 250 | 250 | 250 | | 3600 | 22,0 |
| DF WA 2300 | 2300 | 11000 | Ş | 240 | 120 | 250 | 250 | 250 | 80 | 4000 | 29,0 |
| DF WA 2500 | 2500 | 11500 | n dy | 270 | 120 | 300 | 300 | 300 | 80 | 5200 | 34,0 |
| DF WA 3000 | 3000 | 11500 | ór i | 320 | 120 | 400 | 400 | 400 | | 6300 | 50,0 |
| DF WA 3500 | 3500 | 11500 | opc | 320 | 120 | 400 | 400 | 400 | | 7400 | 67,0 |
| DF WA 4000 | 4000 | 11500 | | 370 | 120 | 450 | 450 | 450 | | 8500 | 87,0 |

The reactor's volume [H1] is selected individually on a basis of water paramters and technology used. The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









AERATION BLOCK DF BA



Application

Aeration Block DF BA is a highly efficient device used for pressure water aeration. Innovative connection of an air bubble cascade aerator equipped with a an injection air-water mixing system, which ensures intense outlet water aeration.

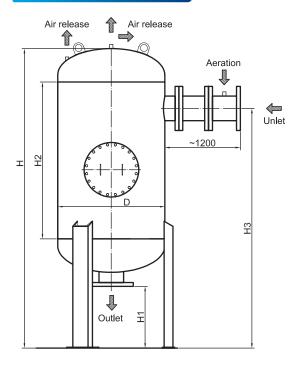
Functioning

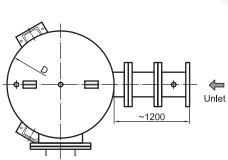
Water supplied is intensively aerated with the inlet pipeline injector powered with the air recycled from the aerator main chamber. The water-air mixture is transferred to the crest in the device upper part, where from it drops down to the splash tray. Air bubble support system ensures maximum extension of compressed air contact with water. Air-water mixture flows down to the reactor, where compounds found in water are subject to further oxidation. The compressed air should be supplied to the device under pressure exceeding the one of the treated water. The aerator is equipped with gas release stub pipe assembled in the reactor, as well as stub pipe used for the compressed air recycling. The aeration innovative solution ensures optimization of the process with minimum operation expenses, in comparison with traditional solutions.

Equipment

- The injector integrated with the device ensuring efficient treated water aeration.
- Automatically controlled air bubble.
- Compressed air automatic recycling system.
- Automatic device gas release system.
- Power supply-control panel [option].
- Material: stainless steel. Other materials may be used on demand.

- Pressure aerator equipped with air bubble mechanism.
- Injector and controlled air bubble water aeration.
- Compressed air recycling.
- Outlet water aeration : > 8 mg0₂/dm³
- Iron, manganese, ammonium ion and other compounds oxidation.
- Aggressive CO₂ and hydrogen sulphide removal.
- Low operation costs in comparison with traditional solutions.
- PZH (National Institute of Hygiene) certificate.





Specification

| Tura | D | Н | H1 | H2 | H3 | Stub | pipes | Waisht [kg] | Total volume |
|------------|------|------|------|------|------|-------------|--------------|-------------|--------------|
| Туре | [mm] | [mm] | [mm] | [mm] | [mm] | DN inlet | DN outlet | Weight [kg] | [m³] |
| DF BA 600 | 600 | 2100 | 400 | 1200 | 1800 | 125 | 125 | 230 | 0,41 |
| DF BA 800 | 800 | 2200 | 400 | 1200 | 1850 | 125 | 125 | 300 | 0,77 |
| DF BA 1000 | 1000 | 2600 | 400 | 1500 | 2200 | 125 | 125 | 340 | 1,50 |
| DF BA 1200 | 1200 | 2800 | 440 | 1500 | 2300 | 150 | 150 | 400 | 2,24 |
| DF BA 1400 | 1400 | 3400 | 440 | 2000 | 2850 | 150 | 150 | 580 | 3,92 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand











HORIZONTAL WATER STORAGE TANK DF ZWH

Application

The Horizontal Water Storage Tank DF ZWH is used for raw and treated water storage purposes in water intakes, water treatment and pumping stations. The device may be used also as a grid distribution tank.

- water retention for the peak distribution,
- ensuring necessary access of disinfectants to water,

- ensuring necessary water supply for the fire-fighting purposes and filters cleaning.

The structure enables to use the tank either in above or underground applications.

Equipment

- Inlet, outlet, overflow and release stub pipes.
- Hatch duct with inspection hatch.
- Ventilation duct.
- Insulation secured against damaging and weather [for the above ground tanks].
- Additional anti-freeze control with heat wire [option].
- Tank filling control fittings mechanical floating valves, or electronic – water level probes [option].
- PZH (National Institute of Hygiene) certificate.

Structure

The tank is made of welded engineering or stainless steel. The standard device is equipped with boiler ends inlet, outlet, overflow and release stub pipes. The diameters may be adjusted on customer's demand. The above ground tank version is insulated with heat insulating material protected against mechanical damage and weather influence. The cover colour may be at customer's choice [RAL range].

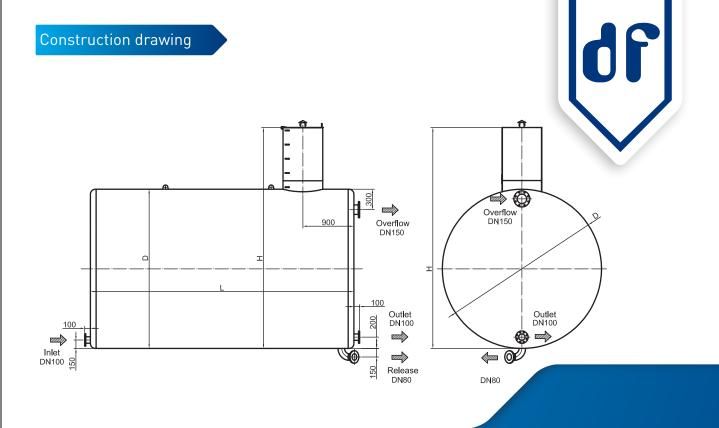
The engineering steel tank is protected against corrosion with: - from inside – thick layer of epoxy enamel used for contact with food products, ar. 300 μm thickness,

- from outside – epoxy anti-corrosion background ar. 140 μm thickness, and bituminous fiberglass based paint of colour selected on order [RAL range].

Different materials may be used on demand.

Additional part included is strainer with return flow valve.

The underground tank should be assembled in previously prepared and stabilised trench, while the above ground version should be assembled on previously prepared foundation.



Specification

| Туре | D [mm] | H [mm] | L [mm] | Weight [kg] | Working capacity [m³] |
|-----------|-----------|-----------|-----------|----------------|--------------------------|
| DF ZWH 25 | 2800 | 3900 | 4750 | 2700 | 25 |
| DF ZWH 50 | 2800 | 3900 | 9250 | 4200 | 50 |
| DF ZWH 75 | 2800 | 3900 | 13000 | 6400 | 75 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.



ABOVE GROUND WATER STORAGE TANK DF ZWV

Application

The Above Ground Water Storage Tank DF ZWV is used for raw and treated water storage purposes in water intakes, water treatment and pumping stations. The device may be used also as a grid distribution tank.

The tank's functions are:

- water retention for the peak distribution,
- ensuring necessary access of disinfectants to water,

- ensuring necessary water supply for the fire-fighting purposes and filters cleaning.

Equipment

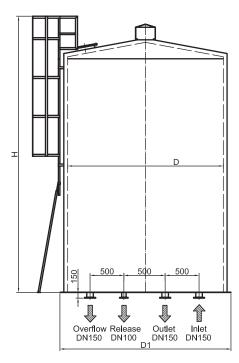
- Inlet, outlet, overflow and release stub pipes and stub pipes used for survey probes assembly.
- External and internal ladder.
- Inspection hatch.
- Servicing bridge [option].
- Ventilation duct.
- Insulation secured against damaging and weather.
- Additional anti-freeze control with heat wire [option].
- PZH (National Institute of Hygiene) certificate.

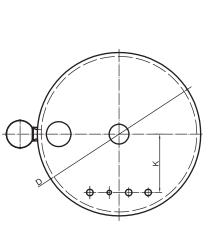
Structure

The tank is made of welded engineering or stainless steel. The standard device is equipped with bottom inlet, outlet, overflow and release stub pipes. The diameters may be adjusted on customer's demand. Special stub pipes are used for assembling survey probes. The tank is insulated with heat insulating material protected against mechanical damage and weather influence. The cover colour may be at customer's choice [RAL range]. The engineering steel tank is protected against corrosion with: - from inside – thick layer of epoxy enamel used for contact with food products, ar. 300 µm thickness,

- from outside – epoxy anti-corrosion background ar. 140 μm thickness, coloured at order [RAL range].

Different materials may be used on demand.





Specification

| Тур | D [mm] | D1 [mm] | H [mm] | K [mm] | Weight [kg] | Working capacity [m³] |
|------------|-----------|------------|-----------|-----------|----------------|--------------------------|
| DF ZWV 75 | 4000 | 4260 | 7400 | 1500 | 4300 | 75 |
| DF ZWV 100 | 4500 | 4760 | 7800 | 1700 | 5000 | 100 |
| DF ZWV 150 | 4500 | 4760 | 11000 | 1700 | 6500 | 150 |
| DF ZWV 250 | 8000 | 8260 | 6500 | 3000 | 17000 | 250 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings









1



AUTOSEP SAND TRAP DF MULTI SB/SP/KP

Application

Autosep DF Multi SB/SP/KP Sand Trap is a device used for a complete mechanical filtration of sewage and industrial wastewater. The combination of mutually compatible devices ensures process optimisation and saves operation space. Sand wash bath, integrated with the sand trap chamber makes the solution exceptional in the market of mechanical wastewater treatment solutions.

Functioning

Wastewater flowing into the sand trap are transferred to the integrated sprue chamber where they get loosened. Then the fluid flows to the filtering block, where solid parts are separated. Screenings are held on following parts, depending on the device model:

SB: Rotary slotted sieve drum with worm conveyor.

SP: Fixed, cleaned perforated sieve with worm conveyor and sweeping brushes.

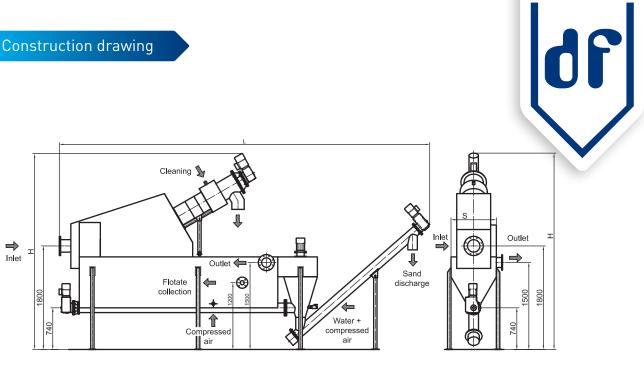
KP: Slotted grid with sweeping combs.

Sieve/drum/grid automatic cleaning system is enclosed depending on wastewater level increase outside the device. The screenings are additionally cleaned, and in SB and SP devices are also drained in their compressing-draining segments. The preliminarily treated wastewater is transferred to the sand trap chamber, where it is aerated, which supports light solid matter and fat floatation. In sand trap the sand and other mineral elements sedimentation occurs. Sand collected in the bottom is transported to the sand wash bath where it is cleaned with water and compressed air. Clean sand is removed outside the device with the worm conveyor. In the upper part of sand trap the flotate sweeper (mixer) is assembled, which transports fat to the chamber, from where it is pumped or transported gravitationally.

Equipment

- Diagonal slotted rum sieve [SB], perforated diagonal sieve [SP], or slotted grid.
- Drum/perforation automatic cleaning system, by-pass chamber with manually operated grid [option].
- Screenings cleaning and compressing system compressing-draining block [option].
- Screenings bagging system [option].
- Horizontal sand trap with worm conveyor.
- Fine-bubble wastewater aeration system [option].
- Aeration fan [option].
- Automatic flotate and fat collection system [option].
- Fat pump [option].
- Integrated sand wash bath with slow rotation sweeper.
- Air-water sand cleaning system .
- Diagonal worm conveyor with reverse motion mode.
- Diagonal worm conveyor with reverse motion mode
- Power supply-control panel.Ex version [option].
- Winter package enabling outdoor installation of the device
- (option). Material: stainless steel. Other materials may be used
- on demand.

- Innovative solution enabling sand cleaning in the integrated final cleaning chamber.
- Modular structure.
- All mechanical wastewater treatment processes in one device.
- Device dimensions functional and ergonomic optimisation .
- Solid contamination removal process hermetisation.
- Sand removal: 90-95% for grains > 0,2mm.
- Sand organic content reduction: max 99%.
- Screenings drainage 20%-60%.
- Screenings weight reduction 30%-60%.



Specification

| | | | | | | Stub pipe: | 5 | Drive power | | | | |
|---------------------------|---------------------|-----------|-----------|-----------|-------------|--------------|---------------|---------------|------------------------------|----------------------------|-------------------------------------|--|
| Туре | Capacity [dm³/s] | S [mm] | L [mm] | H [mm] | DN inlet | DN outlet | DN release | Sieve [kW] | Diagonal conveyor [kW] | Horizontal conveyor[kW] | Rotary slow motion mixer [kW] | |
| DF MULTI SB / SP / KP 20 | 20 | | 5800 | 3500 | 150 | 200 | | 0,55 | 0,37 | 0,37 | 0,25 | |
| DF MULTI SB / SP / KP 40 | 40 | 850 | 7000 | 4000 | 200 | 250 | 65 | 0,55 | 0,37 | 0,55 | 0,25 | |
| DF MULTI SB / SP / KP 50 | 50 | | 8000 | 4500 | 250 | 300 | | 0,75 | 0,37 | 0,55 | 0,25 | |
| DF MULTI 7 SB / SP / KP 0 | 70 | 1000 | 10200 | 4500 | 350 | 400 | 00 | 0,75 | 0,55 | 0,55 | 0,25 | |
| DF MULTI SB / SP / KP 100 | 100 | 1200 | 14200 | 5000 | 400 | 450 | 450 80 | 1,10 | 0,55 | 0,55 | 0,25 | |

The capacities given concern perforation/slots 3mm The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings







Options









AUTOSEP SAND TRAP DF SB/SP/ KP

Application

Autosep Sand Trap DF SB/SP/KP is a multifunctional mechanical sewage and industrial wastewater treatment device. The device structure enables efficient separation of both, screenings as well as mineral elements and flotate.

Functioning

The wastewater stream is first slowed down in the loosening chamber from where it flows to the filtration segment, where solid bodies are separated. Depending on model selected, the screenings are held by:

SB: Rotary slotted sieve drum with worm conveyor.

SP: Fixed, cleaned perforated sieve with worm conveyor and sweeping brushes.

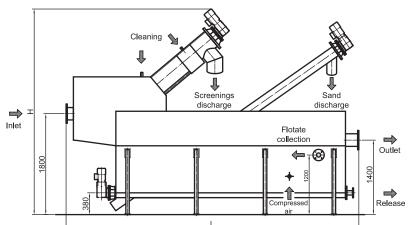
KP: Slotted grid with sweeping combs.

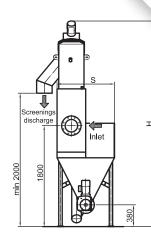
Sieve/drum/grid automatic cleaning system is enclosed depending on wastewater level increase outside the device. The screenings are additionally cleaned, and in SB and SP devices are also drained in their compressing-draining segments. The wastewater filtered from solid elements flows to the rectangular sand trap chamber, where it is aerated, which supports light elements and fat floatation. The sand held in the sand trap is moved by the worm conveyor to the collection chamber. The upper part of the sand trap is equipped with sweeper, which transports fat to the chamber, from which it is pumped or transferred gravitationally

Equipment

- Diagonal slotted drum sieve [SB], perforated diagonal sieve [SP], or slotted grid.
- Drum/perforation automatic cleaning system, by-pass chamber with manually operated grid [option].
- Screenings cleaning and compressing system compressing-draining block [option].
- Screenings bagging system [option].
- Horizontal sand trap with two worm conveyors diagonal and horizontal equipped with reverse motion mode.
- Fine-bubble wastewater aeration system [option].
- Aeration fan [option].
- Automatic flotate and fat collection system [option].
- Fat pump [option].
- Power supply-control panel.
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- All mechanical wastewater treatment processes in one device.
- Device dimensions functional and ergonomic optimisation.
- Solid contamination removal process hermetisation.
- Sand removal: 90-95% for grains > 0,2mm.
- Sand organic content reduction: max 99%.
- Screenings drainage 20%-60%.
- Screenings weight reduction 30%-60%.





Specification

| | | | | H [mm] | | Stub pipes | | Drive power | | | |
|----------------|---------------------|-----------|-----------|-----------|-------------|--------------|---------------|-------------|---------------------------|-----------------------------|--|
| Туре | Capacity [dm³/s] | S [mm] | L [mm] | | DN inlet | DN outlet | DN release | Sieve [kW] | Diagonal conveyor [kW] | Horizontal conveyor [kW] | |
| DF SB / SP 20 | 20 | | 5000 | 3500 | 150 | 200 | | 0,55 | 0,55 | 0,37 | |
| DF SB / SP 40 | 40 | 850 | 6200 | 4000 | 200 | 250 | 65 | 0,55 | 0,55 | 0,37 | |
| DF SB / SP 50 | 50 | | 7200 | 4500 | 250 | 300 | | 0,75 | 0,75 | 0,55 | |
| DF SB / SP 70 | 70 | 1200 | 9500 | 4500 | 350 | 400 | 80 | 0,75 | 0,75 | 0,55 | |
| DF SB / SP 100 | 100 | | 13500 | 5000 | 400 | 450 | 80 | 1,10 | 0,75 | 0,55 | |
| DF KP 20 | 20 | | 4500 | 3000 | 150 | 200 | | 0,55 | 0,55 | 0,37 | |
| DF KP 40 | 40 | 850 | 5700 | 3500 | 200 | 250 | 65 | 0,55 | 0,55 | 0,37 | |
| DF KP 50 | 50 | | 6700 | 4000 | 250 | 300 | | 0,75 | 0,75 | 0,55 | |
| DF KP 70 | 70 | 1200 | 9000 | 4500 | 350 | 400 | 80 | 0,75 | 0,75 | 0,55 | |
| DF KP 100 | 100 | 1200 | 13000 | 4500 | 400 | 450 | 00 | 1,10 | 0,75 | 0,55 | |

The capacities given concern perforation/slots 3mm The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings















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AUTOSEP SAND TRAP DF SWB/SWP

df

Application

Autosep Sand Trap DF SB/SP/KP is a multifunctional mechanical sewage and industrial wastewater treatment device. The combination of compatible equipment components and small dimensions of the whole device make it an interesting alternative for the traditional solutions.

Functioning

The wastewater entering the device flow into the integrated loosening chamber from where they are transferred to the filtering segment, where solid parts are separated. Depending on the model, the screenings are held by:

SWB: slotted sieve drum with worm conveyor.

SWP: Fixed, cleaned perforated sieve with worm conveyor and sweeping brushes.

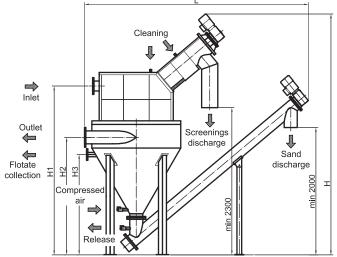
Screenings held by the sieve are transported up to the drainingcompressing segment, where they are washed and drained. After, the wastewater without screenings is gravitationally transferred to the centrifugal sand trap assembled under the sieve, where it is aerated in order to support light solid matter and fat floatation.

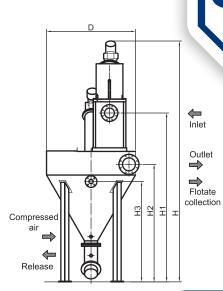
The sand trap is integrated with the fat trap, from which the flotate is transported outside the device. Sand collected on the bottom is transferred through the draining worm conveyor.

Equipment

- Diagonal slotted drum sieve [SWB], perforated diagonal sieve [SWP].
- Drum/perforation automatic cleaning system.
- Screenings cleaning and compressing system [option].
- Screenings bagging system [option].
- Centrifugal sand trap equipped with reverse mode worm conveyor.
- Fine-bubble wastewater aeration system [option].
- Aeration fan [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Modular device structures.
- Simplified structure [with preservation of full functionality] in comparison with conventional solutions based on horizontal sand traps.
- Solid contamination removal process hermetisation.
- Sand removal: 90-95% for grains > 0,2mm.
- Screenings drainage 20%-60%.
- Screenings weight reduction 30%-60%.





Specification

| | Constitut | D | | | 111 | H2 | 112 | | Stub pipes | | Daine a succes | Mainht |
|-----------------|---------------------|---------|-------|--------|------------|-----------|------------|-------|------------|---------|---------------------|----------------|
| Туре | Capacity [dm³/s] | [[mm] | | [mm] | H1 [mm] | | H3 [mm] | DN | DN | DN | Drive power [kW] | Weight [kg] |
| | [u11-/5] | [11111] | Linni | LIIIII | [[]]] | Linning - | [11111] | inlet | outlet | release | | [KY] |
| DF SWP / SWB 10 | 10 | 1300 | 3500 | 3600 | 2465 | 1740 | 1400 | 125 | 150 | 50 | 0,55 + 0,37 | 800 |
| DF SWP / SWB 20 | 20 | 1500 | 4100 | 4150 | 3000 | 2000 | 1700 | 150 | 200 | 50 | 0,55 + 0,37 | 100 |
| DF SWP / SWB 25 | 25 | 1800 | 4700 | 5150 | 3750 | 2360 | 2000 | 200 | 250 | 50 | 0,75 + 0,55 | 1300 |
| DF SWP / SWB 30 | 30 | 2000 | 5200 | 5700 | 4150 | 2600 | 2300 | 200 | 250 | 50 | 0,75 + 0,55 | 1500 |
| DF SWP / SWB 40 | 40 | 2300 | 6000 | 6700 | 4700 | 3000 | 2700 | 200 | 250 | 50 | 0,75 + 0,75 | 1800 |

The capacities given concern perforation/slots 3mm The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings





Options









AUTOSEP SAND TRAP DF BW

df

Application

Autosep Sand Trap DF BW is an integrated device used for comprehensive mechanical sewage and industrial wastewater treatment. Ergonomic structure and multifunctional character make the device a perfect solution for limited room for assembly and construction of wastewater preliminary treatment cycle.

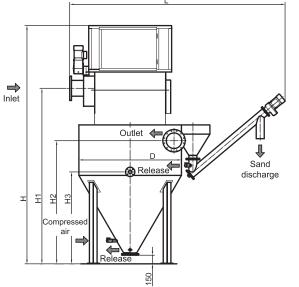
Functioning

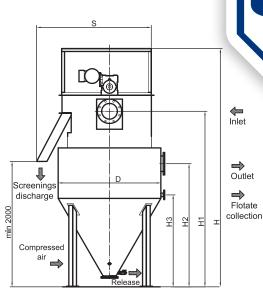
The wastewater flows to the filtration part through the loosening chamber. Screenings held on sieve are removed with adjustable rotary brushes, which are automatically cleaned by the inertial sweeper. The screenings are collected through the discharge mechanism, optionally connected to the Screenings Press DF PU. Wastewater, after solid parts removal, are transferred gravitationally to the centrifugal sand trap assembled under the sieve, where it is first aerated in order to support light and fat components floatation. Fat trap is assembled in the upper part, out of which the floate is transported outside the sand trap. In the sand trap chamber sand and mineral elements sedimentation is carried out. The sand collected on the bottom is transported with the air-water pump to the sand separator, where the sand is cleaned with water and compressed air. Cleaned sand is removed from the device with the diagonal worm conveyor.

Equipment

- 1,0-10,0mm perforation sieve.
- Perforation automatic cleaning system.
- Screenings bagging system [option].
- Integrated sand separator equipped with worm conveyor with reverse mode.
- Fine-bubble wastewater aeration system [option].
- Aeration fan [option].
 Automatic flotate and fat collection system [option].
- Fat pump [option].
- Screenings press [option].
- Air-water pump.
- Power supply-control panel.
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Minimum room necessary for variety of device processes and capacities.
- Modular device structure.
- All mechanical wastewater treatment processes in one device.
- Solid contamination removal process hermetisation.
- Sand removal: 90-95% for grains > 0,2mm.





Specification

| | | | | | | | | Stu | Drive | | | | | |
|-----------|---------------------|-----------|-----------|------------|------------|------------|-----------|-----------|-------------|--------------|---------------|-----------------------|---------------|----------------|
| Туре | Capacity [dm³/s] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | S [mm] | DN inlet | DN outlet | DN release | DN Flotate collection | power [kW] | Weight [kg] |
| DF BW 30 | 30 | 1800 | 3800 | 2800 | 2000 | 2000 | 4000 | 2150 | 200 | 250 | 40 | 65 | 0,25 + 0,25 | 1250 |
| DF BW 40 | 40 | 2200 | 4150 | 3150 | 2350 | 2350 | 4400 | 2550 | 250 | 300 | 40 | 40 05 | 0,37 + 0,25 | 1900 |
| DF BW 60 | 60 | 2500 | 4500 | 3500 | 2600 | 2600 | 4700 | 2850 | 300 | 350 | | | 0,55 + 0,25 | 2600 |
| DF BW 80 | 80 | 3000 | 5000 | 4000 | 3050 | 3050 | 5200 | 3350 | 350 | 400 | 50 | 80 | 0,75 + 0,37 | 3000 |
| DF BW 110 | 110 | 3500 | 5300 | 4300 | 3500 | 3500 | 5800 | 3850 | 400 | 450 | | | 0,76 + 0,37 | 3500 |

The capacities given concern perforation/slots 3mm The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









SCREENING SIEVE DF B/D

Application

Screening Sieve DF B/D is a device for mechanical separation of solid contamination from sewage and industrial wastewater. Simple, tested in many application sieve structure and wide range of possible sizes and compositions makes the device perfect for all kinds of facilities of mechanical wastewater treatment.

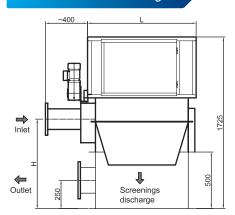
Functioning

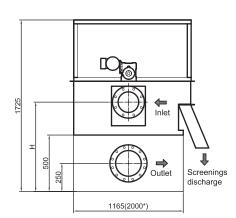
The wastewater flowing in is conducted to the perforated filtrating section. Depending on the separation effect assumed, the perforation applied may be of 1,0-10,0mm clearance. Cleaned fluid is transported to the lower tank, from where it is gravitationally transferred outside the device. The screenings held on the sieve are removed with adjustable rotary brushes, which are automatically cleaned by the inertial sweeper. The screenings collection is performed through the discharge mechanism, which may be optionally equipped with Screenings Press DF PU. Should the fat screens be used , an innovative sequential perforation cleaning system may be applied.

Equipment

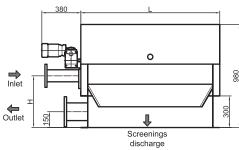
- Sieve perforation 1,0-10,0mm.
- Perforation automatic cleaning .system.
- Additional, sequential perforation cleaning system [option].
- Power supply-control panel [option].
- Screenings press [option].
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

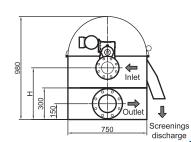
- Wide range of applications.
- 100% elimination of screenings exceeding perforation applied.
- Solid contamination removal process hermetisation.
- Compatible with screenings press.
- Simple structure and easy maintenance.
- Low investment and operation costs.











Specification

| | | Efficiency regard | ding fluid treated | | | | Stub | pipes | Deive | |
|--------|-------------------------------|-------------------|------------------------------------|----------------------------------|-----------|-----------|----------|-----------|------------------------|----------------|
| Туре | heat exchange water [m³/h] | sewage [m³/h] | industrial wastewater [m³/h] | abattoir wastewater [m³/h] | L [mm] | H [mm] | DN inlet | DN outlet | Drive power [kW] | Weight [kg] |
| DF B2 | 40 | | 5 | 4 | 560 | | 80 | 100 | 0,12 | 150 |
| DF B4 | 80 | 15 | 10 | 7 | 930 | | 100 | 150 | 0,12 | 200 |
| DF B5 | 120 | 20 | 15 | 11 | 1030 | | 150 | 200 | 0,12 | 220 |
| DF B6 | 150 | 25 | 18 | 13 | 1320 | | 150 | 200 | 0,12 | 260 |
| DF D8 | 240 | 45 | 30 | 22 | 1050 | ed | 200 | 250 | 0,12 | 400 |
| DF D12 | 360 | 68 | 45 | 33 | 1430 | e e | 250 | 300 | 0,12 | 550 |
| DF D16 | 480 | 90 | 60 | 45 | 1740 | ag | 350 | 400 | 0,25 | 650 |
| DF D20 | 560 | 105 | 70 | 52 | 2100 | be | 350 | 400 | 0,25 | 800 |
| DF D24 | 720 | 140 | 90 | 67 | 2520 | <u></u> | | | 0,37 | 1100 |
| DF D45 | 1360 | 260 | 170 | 127 | 2520 | | | | 0,37 | 1500 |
| DF D60 | 1800 | 340 | 225 | 170 | 3280 | | to be a | igreed | 0,55 | 1800 |
| DF D75 | 2240 | 430 | 280 | 210 | 4000 | | | | 0,75 | 2000 |
| DF D90 | 2800 | 540 | 350 | 260 | 4700 | | | | 0,75 | 2500 |

* width concerns sieves of D60, D75, D90 types The capacities concern perforations of Ø3mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.











VERTICAL SPIRAL SIEVE DF SP

Application

Vertical Spiral Sieve DF SP SBO is a device used for the mechanical separation of solid bodies from sewage or industrial wastewater. The sieve may be successfully used in installations where other solutions are impracticable because of insufficient room. Compact size makes the device perfect to be assembled in outdoor installations i.e wastewater pumping stations, collection stations or sewage pits.

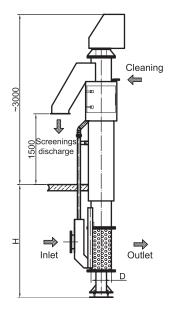
Functioning

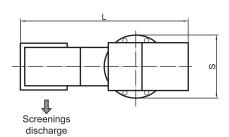
The wastewater enter the device through the inlet chamber, where they get loosened and slowed down. The inlet chamber is also the emergency overflow in the event of excessive wastewater flow or power breakdown. The fluid flows to the cylindrical filtering basket, where sold bodies are separated. The screenings held on the internal surface are removed by the sweeping brushes system assembled on the worm conveyor. The contamination is transported with worm conveyor to the upper segment of the device from where it is transferred to the discharge mechanism. The sieve drive is automatically engaged with proper level of wastewater collected. The screenings are drained when transported and their weight is reduced thanks to compression-drainage block equipped with automatic flushing system. Extended knife gate valve pin enables operation without human presence in the sieve chamber.

Equipment

- Inlet chamber equipped with emergency overflow.
- Filtration basket of 1,0-10,0mm perforation.
- Worm conveyor equipped with reverse motion mode.
- Automatic perforation cleaning system.
- Power supply-control panel equipped with programmable driver.
 - Screenings bagging system [option].
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Less room necessary for assembling.
- Efficient elimination of solid bodies.
- Securing the pumps against damaging.
- Screenings drainage and weight reduction.
- Solid contamination removal process hermetisation.
- Low investment and operation costs.





Specification

| Туре | Capacity [m³/h] | H [mm] | Filter diameter D [mm] | Inlet stub pipe DN | Worm conveyor diameter DN | L [mm] | S [mm] | Drive power [kW] |
|-----------|--------------------|-----------|------------------------------|-----------------------|---------------------------------|-----------|-----------|---------------------|
| DF SP 300 | 100 | | 300 | 200 | | 1000 | 400 | 0,75 ÷ 1,50 |
| DF SP 350 | 140 | be be | 350 | 250 | | 1050 | 450 | 0,75 ÷ 1,50 |
| DF SP 400 | 180 | ق ک | 400 | 250 | 300 | 1100 | 500 | 1,10 ÷ 1,50 |
| DF SP 450 | 210 | agr | 450 | 300 | | 1150 | 550 | 1,10 ÷ 1,50 |
| DF SP 500 | 250 | | 500 | 300 | | 1200 | 600 | 1,10 ÷ 2,20 |

The capacities concern perforations of Ø 3mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.











SPIRAL DUCT SIEVE DF SSP / DF SSB

Spiral Duct Sieve DF SSP / DF SSB is used for mechanical separation of solid bodies contained in sewage and industrial wastewater. The sieve is assembled either in indoor or outdoor ducts systems. Depending on type selected it may be equipped with perforated filtration part or slotted rotary drum.

Functioning

The wastewater flowing into the filtration part which consists of either perforated plate, or slotted drum sieve. The clearance applied is between 1,0-10,0mm which ensures efficient separation of screenings meeting the investor's demand.

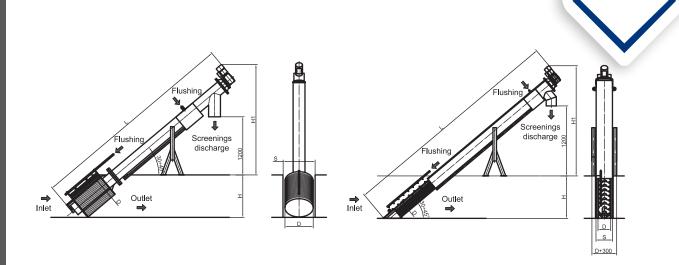
SSP: Screenings held on the perforated sieve are swept by the brushes integrated with worm conveyor. The contaminated material is then transported up where it is flushed and drained by the compressing-draining segment. The screenings are transferred outside the sieve through the discharge duct.

SSB: The filtering part is the slotted sieve assembled on rotary drum integrated with the worm conveyor. After achieving assumed contamination level the drum starts rotating and water-mechanical cleaning process commences simultaneously. The screenings held are dropped to the worm conveyor which transports them up where they are flushed and drained in compressing-draining segment. Transferring screenings outside the sieve is performed through the discharge duct.

Equipment

- Diagonal perforated sieve [SPP] or diagonal slotted drum sieve [SBB].
- Worm conveyor assembled under angle of 30-45°, equipped with reverse motion mode.
- Drum/perforation clearance 1,0-10,0mm.
- Drum/perforation automatic cleaning system.
- Screenings cleaning and compressing system [option].
- Power supply-control panel equipped with programmable driver.
- Screenings bagging system [option].
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Efficient solution even for very demanding wastewater.
- Adjustable to existing ducts.
- Solid contamination removal process hermetisation.
- Efficient elimination of solid bodies from wastewater.
- Screenings drainage in 20-60%.
- Screening weight reduction in 30-60%.
- Separated screenings organic content reduction.
- Low operation costs.



Specification

| Туре | Capacity [m³/h] | L [m] | H [mm] | H1 [mm] | D [mm] | DN filtering part diameter | Drive power [kW] | Weight[kg] |
|-------------|--------------------|----------|-----------|------------|-----------|-------------------------------|---------------------|------------|
| DF SSP 250 | 90 | 4,8 | 750 | 2000 | 350 | 250 | 0,55 | 300 |
| DF SSP 300 | 110 | 5,0 | 750 | 2000 | 450 | 300 | 0,75 | 450 |
| DF SSP 400 | 160 | 5,0 | 850 | 2200 | 600 | 400 | 0,75 | 600 |
| DF SSP 500 | 230 | 5,5 | 950 | 2200 | 700 | 500 | 1,10 | 750 |
| DF SSP 600 | 290 | 6,5 | 950 | 2200 | 800 | 600 | 1,10 | 900 |
| DF SSP 700 | 350 | 7,0 | 1050 | 2200 | 900 | 700 | 1,50 | 1100 |
| DF SSB 600 | 140 | 4,5 | 700 | 2000 | 800 | 600 | 0,75 | 300 |
| DF SSB 700 | 200 | 4,5 | 700 | 2000 | 900 | 700 | 0,75 | 400 |
| DF SSB 800 | 250 | 5,5 | 850 | 2200 | 1000 | 800 | 1,10 | 500 |
| DF SSB 900 | 306 | 6,0 | 950 | 2200 | 1100 | 900 | 1,10 | 700 |
| DF SSB 1000 | 350 | 6,0 | 1050 | 2200 | 1200 | 1000 | 1,50 | 850 |
| DF SSB 1200 | 480 | 7,0 | 1150 | 2200 | 1400 | 1200 | 2,20 | 1200 |

The dimensions above concern the devices equipped with diagonal worm conveyor 35°. The capacities concern perforations/slots of Ø3mm The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings





Options







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DUCT LOUVER DF KS

Application

Duct Louver DF KS is used for the mechanical separation of solid elements from treated sewage and industrial wastewater. The device structure enables its use either in the existing or new designed facilities.

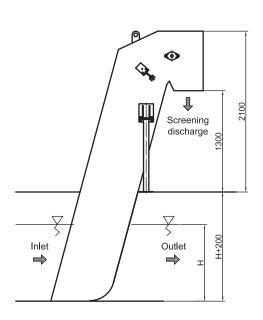
Functioning

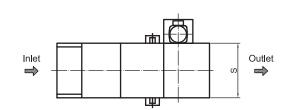
The wastewater transferred through duct encounter filtering barrier, where solid parts are held. The screenings are held on the steel grille of 5,0-50,0mm clearance. The contamination is transported up by the sweeping system. The screenings are washed intensively when transported up, which reduces their weight and organic content. System solution enables sweeping combs automatic cleaning. The upper device segment is equipped with discharge, from where the screenings are transferred to the container or to further treatment [e.g. compressing with Screenings Press DF PU]. The device is adjustable to the existing working conditions of given facility which considerably decreases investment costs.

Equipment

- Steel filtering grille of 5,0-50,0mm clearance.
- Sweeping combs.
- Automatic combs cleaning
- Transported screenings washing system [option].
- Lateral overflow [option].
- Power supply-control panel.
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Efficient solution for wastewater with high content of large solid bodies.
- Product adjustable to the given facility conditions [width and height].
- Easily assembled and disassembled with no necessity of complex preliminary works.
- ${\it Solid \ contamination \ removal \ process \ hermetisation.}$
- Screenings weight, organic compounds reduction.
- Easy accessible mechanical parts.
 - Low investment and maintenance costs.





Specification

| Туре | Capacity [m³/h] | H [mm] | S duct width [mm] | Clearance [mm] | Drive power [kW] | Weight [kg] |
|-----------|--------------------|-----------|-------------------|-------------------|---------------------|----------------|
| DF KS 45 | 45 | 800 | 400 | 5 | 0,37 | 250 |
| DF KS 70 | 70 | 800 | 600 | 3 | 0,55 | 350 |
| DF KS 100 | 100 | 800 | 800 | 5 | 0,75 | 400 |
| DF KS 150 | 150 | 1000 | 1000 | 5 | 0,75 | 500 |
| DF KS 190 | 190 | 1000 | 1200 | 5 | 1,10 | 600 |
| DF KS 230 | 230 | 1000 | 1400 | 5 | 1,10 | 700 |
| DF KS 260 | 260 | 1000 | 1600 | 5 | 1,50 | 800 |

The capacities given concern perforation/slots 3mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings









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ROTARY DRUM SIEVE DF SB0

df



Application

Rotary Drum Sieve DF SBO is a device used for the mechanical separation of solid bodies from sewage or industrial wastewater. The filtration rotary drum structure ensures efficient screenings separation with minimum water and power consumption. Rotary drum application in filtration reduced required room with preservation of high efficiency.

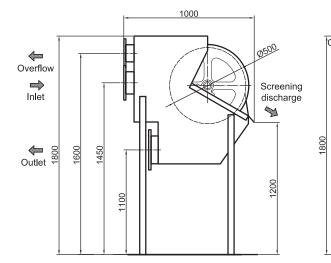
Functioning

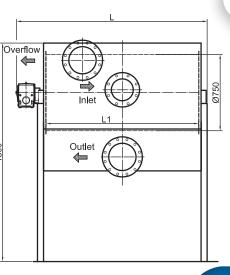
The wastewater enter the device through the inlet chamber, where they get loosened and slowed down. The chamber working capacity is adjusted to ensure equal distribution of wastewater in all the filter surface. Proper separation of solid contamination is obtained with drum shaped slotted sieve being in constant motion. The screenings held on the internal filter walls are moved quickly, thanks to the rotation, to the comb which cleans the filtering part. The filtered wastewater after flowing through the perforated drum flow down to the lower collection chamber. In order to ensure 100% flow capacity the drum is additionally flushed with water. The sieve may be integrated with wash press or screenings press.

Equipment

- Untrapped inlet chamber.
- Drum slotted sieve of 0,5-6,0mm clearance.
- Mechanical and hydraulic sieve cleaning system.
- Screenings discharge.
- Power supply control panel.
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Less room necessary.
- Wide range of applications.
- 100% of screenings of diameter exceeding applied perforation eliminated.
- Device compatible with wash press or screenings press.
- Simple structure and easy maintenance.
- Low investment and operation costs.





Specification

| | 0 | | 1.4 | | Stub pipes | | | Drive |
|-----------|--------------------|-----------|------|-------------|--------------|------------------|----------------|---------------|
| Туре | Capacity [m³/h] | L [mm] | [mm] | DN inlet | DN outlet | Overflow [mm] | Weight [kg] | power [kW] |
| DF SBO 20 | 20 | 800 | 500 | 150 | 200 | 200 | 200 | 0,18 |
| DF SBO 30 | 30 | 1100 | 800 | 150 | 200 | 200 | 300 | 0,25 |
| DF SBO 40 | 40 | 1300 | 1000 | 200 | 250 | 250 | 400 | 0,37 |
| DF SBO 50 | 50 | 1600 | 1200 | 200 | 250 | 250 | 550 | 0,55 |
| DF SBO 60 | 60 | 1900 | 1500 | 250 | 300 | 300 | 700 | 0,55 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









DRUM SIEVE DF SB

Application

Drum Sieve DF SB is used for mechanical wastewater filtering from solid bodies. Its simplicity, easy maintenance and high capacities make this device universal.

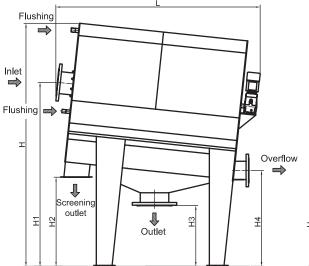
Functioning

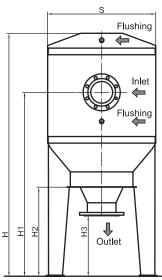
The contaminated wastewater is transferred through the inlet stub pipe to the rotating drum. Thanks to the flow deflector applied the wastewater loses its energy and separating segment is equally charged. Solid bodies are held from the internal side of the barrier and the drum rotations coupled with wormwheel moves them to the screenings discharge. Wastewater without solid parts in flows down to the lower tank, from where it is transferred through the outlet stub pipe outside. depending on wastewater treated, the filtrating barrier may be perforated, slotted or made of net. In order to assure 100% flow capacity the drum is additionally flushed with water. The screenings transported are partially drained (thanks to the drum proper angle) and flushed.

Equipment

- Inlet chamber equipped with the deflector.
- Filtrating barrier perforated, slotted or made of net.
- Rotary wormwheel.
- Sieve hydraulic flushing system.
- Screenings cleaning system [option].
- Power supply-control panel.
- Screenings bagging system [option].
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Universal application.
- Simple structure and easy maintenance.
- Sieve self-cleaning.
- Flexible filtering barrier adjustment to the wastewater type.
- High capacity.
- Low operation costs.





Specification

| | Quantita | | 114 | H2 | 110 | 117 | | C | | Stu | ub pipes | | Driver |
|-----------|--------------------|-----------|------------|------------|------------|------------|------|-----------|-------------|--------------|----------------------------|------------------|---------------|
| Туре | Capacity [m³/h] | H [mm] | H1 [mm] | HZ [mm] | H3 [mm] | H4 [mm] | [mm] | 5 [mm] | DN inlet | DN outlet | Screeinings outlet [mm] | Ovelflow [mm] | power [kW] |
| DF SB 25 | 25 | 1600 | 1220 | 615 | 450 | 660 | 1200 | 700 | 100 | 150 | 400/150 | 80 | 0,25 |
| DF SB 35 | 35 | 1600 | 1220 | 615 | 440 | 650 | 1250 | 700 | 100 | 150 | 400/150 | 80 | 0,25 |
| DF SB 50 | 50 | 1860 | 1410 | 680 | 460 | 730 | 1560 | 830 | 150 | 200 | 480/190 | 125 | 0,55 |
| DF SB 60 | 60 | 2150 | 1625 | 780 | 550 | 820 | 1850 | 970 | 150 | 200 | 560/220 | 125 | 0,55 |
| DF SB 70 | 70 | 2440 | 1840 | 870 | 630 | 940 | 1950 | 1100 | 200 | 250 | 630/250 | 150 | 0,75 |
| DF SB 90 | 90 | 2440 | 1840 | 870 | 610 | 920 | 2160 | 1100 | 200 | 250 | 630/250 | 150 | 0,75 |
| DF SB 100 | 100 | 2440 | 1840 | 870 | 590 | 900 | 2360 | 1100 | 200 | 250 | 630/250 | 150 | 1,10 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









FLOW SIEVE DF BV / DV

Application

Flow Sieve DF BV/DV is a device used for separation of biological reactor suspended bed blocks. Solid, faultless structure and simple maintenance make this device almost self-operating.

Functioning

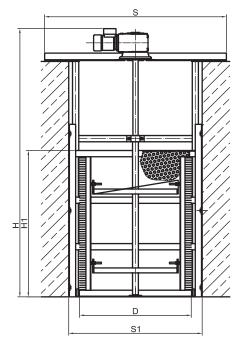
The wastewater flows perpendicularly to the semi-round sieve, which holds the suspended bed blocks. The filtered fluid flows to further stage of biological treatment and blocks remain in the reactor chamber. The perforated surface is constantly cleaned preserving the device hydraulic capacity. The controlled cleaning system is driven with motoreducer secured against weather conditions. Guides system enables easy and quick disassembly of the sweeper. The device is assembled on reactor wall in manner stopping the blocks from getting outside the tank.

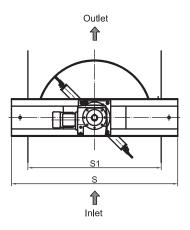
Equipment

- Perforated filtering part of clearance adjusted to the suspended bed blocks
- Automatic cleaning-sweeping system.
- Supporting structure equipped with guides enabling easy and quick disassembly of the sweeper. Motoreducer secured against weather conditions.
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Biological reactor suspended bed blocks separation system.
- Adjustable cleaning-sweeping system.
- Low investment and maintenance costs.







Specification

| Туре | Capacity [m³/h] | D [mm] | S [mm] | S1 [mm] | H * [mm] | H1 [mm] | Drive power [kW] | Weight [kg] |
|----------|--------------------|-----------|-----------|------------|-------------|------------|---------------------|----------------|
| DF BV 2 | 20 | | | | 900 | 300 | 0,12 | 70 |
| DF BV 4 | 45 | 600 | 950 | 750 | 1200 | 600 | 0,12 | 120 |
| DF BV 5 | 60 | 000 | 900 | /50 | 1450 | 850 | 0,12 | 150 |
| DF BV 6 | 75 | | | | 1700 | 1100 | 0,12 | 180 |
| DF DV 8 | 135 | | | | 1500 | 800 | 0,12 | 200 |
| DF DV 12 | 200 | | | | 2050 | 1300 | 0,12 | 300 |
| DF DV 16 | 265 | 1150 | 1600 | 1350 | 2500 | 1700 | 0,25 | 450 |
| DF DV 20 | 315 | | | | 2800 | 2000 | 0,25 | 600 |
| DF DV 24 | 420 | | | | 3500 | 2700 | 0,37 | 800 |
| DF DV 45 | 500 | | | | 2900 | 2000 | 0,37 | 800 |
| DF DV 60 | 1000 | 1900 | 2700 | 2200 | 4900 | 4000 | 0,55 | 1400 |
| DF DV 75 | 1300 | 1700 | 2700 | 2200 | 5900 | 5000 | 0,75 | 1800 |
| DF DV 90 | 1600 | | | | 6900 | 6000 | 1.10 | 2300 |

* minimum height

The capacities concern perforations/slots of Ø3mm

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









Application

The Wash Press is the device used for screenings flushing, draining, transporting and compressing. Washed away organic matter, as well as screenings weight and volume reduction has considerably decreases wastewater treatment plant operation costs preserving maximum level of environment protection.

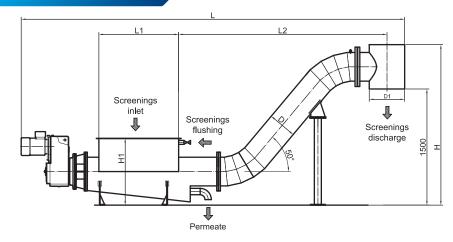
Functioning

Screenings charged to the cleaning zone are intensively flushed with water under pressure of 4 bar. Specially designed nozzles system supported by the automatic water mixing system, ensures efficient removal of organic matter and contamination weight reduction. Cleaned screenings are then transported by the conveyor to the compressing-drainage block, from where they are directed to the discharge mechanism. The whole process is automated, individual phases are adjusted to the screenings contamination level and to assumed technological result.

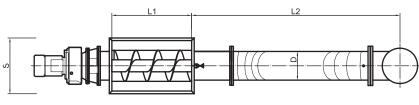
Equipment

- Worm conveyor coated with abrasion resistant plastic.
- Automatic screenings flushing system.
- Sequential water mixing system.
- Automatic permeate transfer system [option].
- Power supply control panel equipped with programmable driver [option].
 - Screenings bagging system [option].
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Screenings drainage between 40-80%.
- Screenings weight reduction between 40-80%.
- Separated screenings organic compounds reduction.
- Solid contamination removal process hermetisation.
- Transported screenings drainage and weight reduction.
- Water or cleaned wastewater flushing available.
- Economical maintenance.







Screenings inlet

Specification

| Туре | Press capacity [m³/h] | D [mm] | D1 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | S [mm] | Drive power [kW] |
|-----------|--------------------------|-----------|------------|------------|--------------|------------|-----------|------------|-----------|------------------------|
| DF PR 200 | 0,25 | 200 | 250 | L1+L2+1000 | | 2100 | 1900 | 650 | 400 | 1,5 |
| DF PR 250 | 0,40 | 250 | 350 | L1+L2+1100 | 1. h | 2300 | 1950 | 700 | 450 | 2,2 |
| DF PR 300 | 0,70 | 300 | 400 | L1+L2+1200 | to be agreed | 2500 | 2000 | 750 | 500 | 2,2 |
| DF PR 400 | 1,30 | 400 | 500 | L1+L2+1250 | | 2800 | 2100 | 850 | 600 | 2,2 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









SCREENINGS PRESS DF PU

Application

Screenings Press DF PU is the device used for screenings drainage and compression. Its structure enables compatibility with other mechanical wastewater treatment devices, i.a. screenings, vertical and duct sieves.

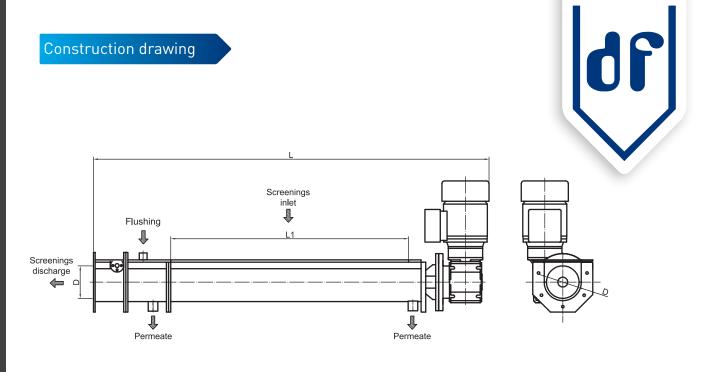
Functioning

Screenings discharged to the device are entered to the weigh hopper, from where they go to the space between the worm conveyor lines transporting them to the compressing-draining block. Thanks to the diagonal conveyor the screenings are preliminarily drained. The process is fully automated. The device is also equipped with perforation water flushing system. We recommend to coordinate press operation with screenings separator.

Equipment

- Worm conveyor coated with abrasion resistant plastic.
- Automatic compression-drainage system.
- Permeate transfer system.
- Automatic water perforation flushing system.
- Power supply-control panel [option]
- Ex version [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Screenings drainage between 30-60%.
- Screenings weight reduction between 30-60%.
- Separated screenings organic compounds reduction.
- Transported screenings drainage and weight reduction.
- Economical maintenance.



Specification

| Туре | Press capacity [m³/h] | D [mm] | L [mm] | L1 [mm] | Drive power [kW] |
|-----------|-----------------------------|-----------|-----------|--------------|---------------------|
| DF PU 100 | 0,06 | 100 | L1+600 | | 0,25 |
| DF PU 150 | 0,18 | 150 | L1+700 | | 0,37 |
| DF PU 200 | 0,50 | 200 | L1+850 | to be agreed | 0,55 |
| DF PU 250 | 1,00 | 250 | L1+1000 | | 0,75 |
| DF PU 300 | 1,60 | 300 | L1+1100 | | 1,10 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









CENTRIFUGAL SAND TRAP WITH SAND SEPARATOR DF PSZ

Application

The Centrifugal Sand Trap with Sand Separator DF PSZ is the device used for separation of sand and solid bodies found in the wastewater with flotate filtration. The separator integrated with the sand trap enables sand washing flushing and drainage which decreases necessary operation space.

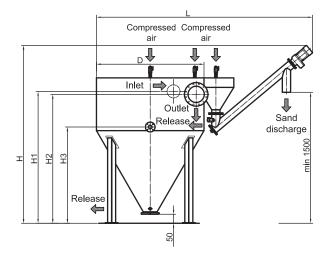
Functioning

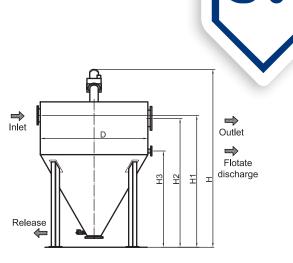
The wastewater enter the cylindrical internal ring, the form of which makes the fluid circulate. The centrifugal force and weight makes the sand and solid bodies of high specific weight drop down to the conical collection chamber bottom, to the collection hopper. Thanks to the fine-bubble aeration fat and other flotate is kept within sand trap internal ring, from where they are removed periodically with flotate filtration system. Filtrated wastewater is removed outside with outlet stub pipe. The sand-water pulp from the collection chamber is transferred to the sand separator with the air pump. In the separator, the pulp flows into wash and sedimentation chamber. The organic contamination is washed away from the mineral matter with air provided to the chamber. Cleaned sand drops down to the bottom and the fluid surplus with organic suspension flows through the overflow back to the external ring, form where it is transferred outside with worm conveyor.

Equipment

- Cylindrical body connected with conical sedimentation segment.
- Internal separation ring.
- Wastewater aeration system [option].
- Automatic flotate and fat filtration system [option].
- Sand transportation air pump.
- Sand separator integrated with the sand trap.
- Diagonal draining worm conveyor set under angle of 35-45° equipped with reverse motion mode.
- Power supply-control panel.
- Ex-version available [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Sand separation and cleaning processes in one device.
- Sand removal: 90-98% for grains > 2,0mm.
- Organic matter reduction from sand: max 99%.
- Fluid ring separation system.
- Sand drainage.
- Flotate and fat filtration.
- Less room required/small assembly space.





Specification

| | | | | | | | | | Stub | pipes | | Deive | |
|------------|--------------------|-----------|-----------|------------|------------|------------|-----------|----------|-----------|----------------------------|-------------------------|------------------------|----------------|
| Туре | Capacity [m³/h] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | DN inlet | DN outlet | DN emergency release | DN flotate discharge | Drive power [kg] | Weight [kW] |
| DF PSZ 60 | 60 | 1300 | 2500 | 1500 | 1450 | 950 | 3300 | 150 | 200 | 40 | 50 | 350 | 0,25 |
| DF PSZ 120 | 120 | 1800 | 3000 | 1950 | 1900 | 1400 | 3800 | 200 | 250 | 40 | 65 | 600 | 0,25 |
| DF PSZ 160 | 160 | 2200 | 3700 | 2600 | 2550 | 2050 | 4300 | 250 | 300 | 40 | 00 | 900 | 0,25 |
| DF PSZ 200 | 200 | 2500 | 4100 | 2850 | 2800 | 2300 | 4600 | 300 | 350 | 50 | | 1200 | 0,25 |
| DF PSZ 300 | 300 | 3000 | 4500 | 3250 | 3200 | 2700 | 5100 | 350 | 400 | 50 | 80 | 1500 | 0,37 |
| DF PSZ 400 | 400 | 3500 | 4900 | 3750 | 3700 | 3200 | 5600 | 400 | 450 | 50 | | 1800 | 0,37 |

The dimensions above concern the devices equipped with worm conveyor assembled under 35° The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









CENTRIFUGAL SAND TRAP WITH WORM CONVEYOR DF PSS

Application

The Centrifugal Sand Trap integrated with Worm Conveyor DF PSS is used for separation and discharge of sand and solid bodies from the wastewater treated with sand-water pulp drainage for the flotate discharge purposes. Multiple functions and small size makes this device an interesting alternative either for sewage or industrial treatment plants.

Functioning

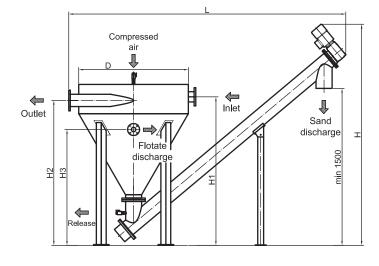
The wastewater enter the cylindrical internal ring, the form of which makes the fluid circulate. The centrifugal force and weight makes the sand and solid bodies of high specific weight drop down to the conical collection chamber bottom, from where they are periodically transferred outside with the worm conveyor. The sand-water pulp is drained gravitationally during being transported. The wastewater with suspension are transferred outside the sand trap through the stub pipe assembled on the device shell. The fluid ring distribution system ensures high quality of sand separation process. The sand trap is equipped with fine-bubble aeration system, which prevents sedimentation of organic matter and sand, as well as supports fat floatation process. Flotate filtration is carried out through the adjusted flow process.

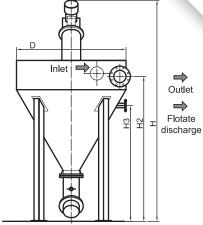
Equipment

- Cylindrical body connected with conical sedimentation segment.
- Internal separation ring.
- Fine-bubble wastewater aeration system [option].
- Automatic flotate and fat filtration system [option].
- Diagonal worm conveyor set under angle of 35-45° equipped with reverse motion mode.
- Power supply-control panel.
- Ex-version available [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Sand removal: 90-98% for grains > 2,0mm.
- Fluid ring separation system.
- Less room required/small assembly space.
- Sand pulp organic compounds reduction.
- Flotate and fat filtration.

Outlet





Specification

| | | | | | | | | | Stub pipes | | Drive | |
|------------|--------------------|-----------|-----------|------------|------------|------------|-----------|-------------|--------------|-------------------------|---------------|----------------|
| Туре | Capacity [m³/h] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | DN inlet | DN outlet | DN flotate discharge | power [kg] | Weight [kW] |
| DF PSS 25 | 25 | 1000 | 2300 | 1500 | 1300 | 900 | 3000 | 80 | 100 | 50 | 0,37 | 300 |
| DF PSS 45 | 45 | 1150 | 2500 | 1650 | 1600 | 1200 | 3500 | 100 | 150 | 50 | 0,37 | 400 |
| DF PSS 60 | 60 | 1300 | 3200 | 1900 | 1850 | 1450 | 4200 | 150 | 150 | 50 | 0,55 | 500 |
| DF PSS 120 | 120 | 1800 | 3600 | 2100 | 2050 | 1650 | 4800 | 250 | 300 | 65 | 0,55 | 800 |
| DF PSS 150 | 150 | 2300 | 4000 | 2700 | 2650 | 2250 | 5100 | 300 | 350 | 80 | 0,75 | 1300 |

The dimensions above concern the devices equipped with worm conveyor assembled under 35°. The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









CENTRIFUGAL SAND TRAP DF PSK





Application

Centrifugal Sand Trap DF PSK is used for separation of sand and solid bodies from wastewater with simultaneous holding of floating elements. Thanks to its highly efficient sand separation it constitutes a necessary component of every mechanical wastewater treatment system.

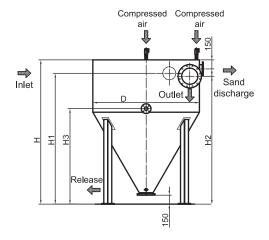
Functioning

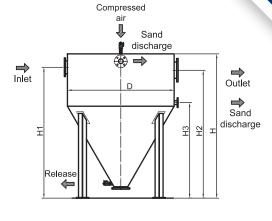
The wastewater is provided through the inlet stub pipe to the ring assembled inside the device. Its oval shape makes the fluid circulate. The centrifugal motion and weight makes the sand and solid bodies of high specific weight drop down to the collection chamber bottom. Wastewater and suspension flow to the device external part, from where they are transferred outside the sand trap through the stub pipe assembled on the shell. The fluid ring distribution system ensures high quality of sand separation process. The sand trap is equipped with fine-bubble aeration system, which prevents sedimentation of organic matter and sand, as well as supports fat floatation process. Floatate filtration is carried out through the adjusted flow process. Water-sand pulp is transported from the collection chamber with submerged or air pump.

Equipment

- Cylindrical body connected with conical sedimentation segment.
- Internal separation ring.
- Fine-bubble wastewater aeration system [option].
- Automatic flotate and fat filtration system [option].
- Sand pulp air pump [standard] / sand pulp electric pump [option].
- Power supply-control panel.
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Sand removal: 90-98% for grains > 2,0mm.
- Fluid ring separation system.
- Less room required/small assembly space.
- Sand pulp organic compounds reduction.
- Flotate and fat filtration.





Specification

| | | | | | | | | | Stub pipe | S | | |
|------------|--------------------|-----------|-----------|------------|------------|------------|-------------|--------------|----------------------------|----------------------|-------------------------|----------------|
| Туре | Capacity [m³/h] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | DN inlet | DN outlet | DN emergency release | DN sand discharge | DN flotate discharge | Weight [kg] |
| DF PSZ 60 | 60 | 1300 | 1750 | 1500 | 1450 | 950 | 150 | 200 | 40 | 65 | 50 | 280 |
| DF PSZ 120 | 120 | 1800 | 2200 | 1950 | 1900 | 1400 | 200 | 250 | 40 | 80 | 65 | 500 |
| DF PSZ 160 | 160 | 2200 | 2850 | 2600 | 2550 | 2050 | 250 | 300 | 40 | 80 | 00 | 800 |
| DF PSZ 200 | 200 | 2500 | 3100 | 2850 | 2800 | 2300 | 300 | 350 | 50 | 100 | | 1100 |
| DF PSZ 300 | 300 | 3000 | 3550 | 3250 | 3200 | 2700 | 350 | 400 | 50 | 125 | 80 | 1350 |
| DF PSZ 400 | 400 | 3500 | 4100 | 3750 | 3700 | 3200 | 400 | 450 | 50 | 125 | | 1650 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.

Detailed drawings









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<section-header>

Application

Sand Separator DF SW is the device used for the final sand separation from sand-water pulp transferred from the sand trap.

Functioning

The wastewater flows into the internal part of separator, where it is put in circulation in order to increase separation efficiency – centrifugal force and gravity ensure optimal conditions for the above process. The separated sand collects in lower, conical part of the device. The separator may be equipped with slow motion mixer, which shovels and mixes sand. Water flushing and compressed air aeration ensures high organic matter removal efficiency. Filtrated wastewater is transferred outside through the outlet stub pipe. The sand collected on the bottom is transported outside with worm conveyor being gravitationally drained in the same time. The separator is equipped with opened cover being a revision hatch in the same time.

Equipment

- Cylindrical body connected with conical sedimentation segment.
- Internal separation ring.
- Air-water flushing system [option].
- Slow motion mixer [option].
- Cover.
- Diagonal draining worm conveyor set under angle of 35-45° equipped with reverse motion mode.
- Ex-version available [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Organic matter reduction from sand: max 99%.
- Ring fluid separation system.
- Sand drainage.
- Sand pulp organic matter reduction.
- Flotate and fat collection.

Water + air

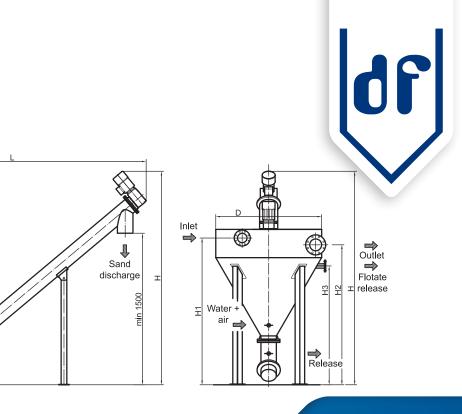
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Release

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(c) =>

Flotate release



Specification

Inlet

outlet

| | Capacity [m³/h] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | Stub pipes | | | | Commenter | Duine | |
|----------|--------------------|-----------|-----------|------------|------------|------------|-----------|-------------|--------------|-------------------------|---------------|-------------------------------|------------------------|----------------|
| Туре | | | | | | | | DN inlet | DN outlet | DN water flushing | DN release | Separator capacity [m³] | Drive power [kW] | Weight [kg] |
| DF SW 10 | 10 | 800 | 2400 | 1550 | 1500 | 1200 | 2800 | 80 | 100 | 25 | 50 | 0,4 | 0,37+0,25 | 180 |
| DF SW 25 | 25 | 1000 | 2550 | 1700 | 1650 | 1350 | 3100 | 80 | 100 | | | 0,6 | 0,37+0,25 | 320 |
| DF SW 45 | 45 | 1500 | 3000 | 2100 | 2050 | 1750 | 3600 | 100 | 150 | | | 1,5 | 0,55+0,25 | 500 |
| DF SW 65 | 65 | 2000 | 3400 | 2600 | 2550 | 2250 | 4250 | 150 | 200 | | | 3,0 | 0,55+0,55 | 900 |
| DF SW 80 | 80 | 2300 | 3700 | 2850 | 2800 | 2500 | 4600 | 200 | 250 | | | 4,4 | 0,75+0,75 | 1200 |

The dimensions above concern the devices equipped with worm conveyor assembled under 35° The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.









SAND SEPARATOR DF SG

Application

The Sand Separator DF SG is the device used in sewage and industrial wastewater treatment plants, for the final sand separation from sand-water pulp transferred from the sand trap.

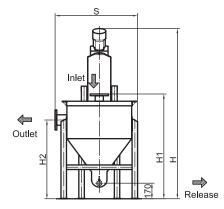
Functioning

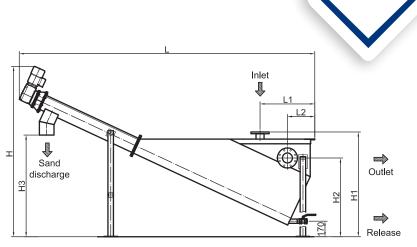
Sand-water mix is provided the separator through the inlet stub pipe on the device shell. Inside the separator the fluid stream is slowed down which makes the contamination with heavier specific weight drop down to the separator's bottom. Special barrier keeps the sand away from the outlet. The sand collected on the bottom is transported outside with the worm conveyor, being gravitationally drained in the same time.

Equipment

- Body.
- Sand barrier.
- Safety cover.
- Worm conveyor equipped with reverse mode.
- Power supply-control panel.
- Ex-version available [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Sand separation high efficiency.
- Sand pulp organic compounds reduction.
- Sand drainage.
- Ergonomic size.





Specification

| Туре | Capacity [m³/h] | S [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Stub pipes | | Driver | Weight |
|-----------|--------------------|-----------|-----------|------------|------------|------------|-----------|------------|------------|-------------|--------------|---------------|--------|
| | | | | | | | | | | DN inlet | DN outlet | power [kW] | [kg] |
| DF SG 18 | 18 | 800 | 2200 | 1350 | 870 | 1300 | 3400 | 600 | 300 | 80 | 100 | 0,55 | 350 |
| DF SG 40 | 40 | 970 | 2900 | 1750 | 1160 | 1700 | 4500 | 700 | 400 | 100 | 125 | 0,55 | 550 |
| DF SG 70 | 70 | 1150 | 3300 | 2000 | 1300 | 1950 | 5000 | 800 | 500 | 100 | 125 | 0,55 | 750 |
| DF SG 100 | 100 | 1330 | 4400 | 2600 | 1730 | 2550 | 6600 | 900 | 600 | 125 | 150 | 0,75 | 1100 |
| DF SG 120 | 120 | 1510 | 4800 | 2800 | 1830 | 2750 | 7100 | 1000 | 700 | 150 | 200 | 0,75 | 1500 |

The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.











Application

Sand Wash DF PP is used for washing away all kinds of organic and volatile contaminations from the sand provided from the sand trap or separator. Water or filtered wastewater based process ensures efficient reduction of organic matter contained in sand.

Functioning

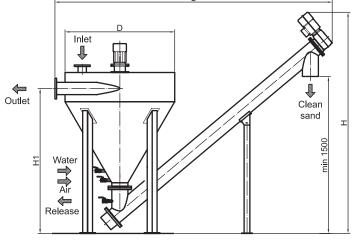
The sand provided containing highly condensed organic and volatile matter flows into the mixing and sedimentation chamber equipped with slow motion mixer. Washed sand is shovelled and mixed and water with compressed air flowing from the bottom flushes and carries away organic matter to the outlet stub pipe. The programmable driver helps to adjust technological cycle parameters to the installation features. Flushing water and air is provided to the conical section and the sand washed away is collected from the lower hopper with worm conveyor. The sand is drained gravitationally during the transportation.

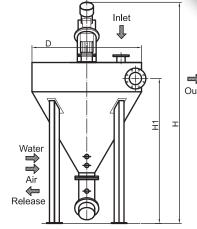
Equipment

- Cylindrical body connected with conical sedimentation segment.
- Slow motion mixing sweeper.
- Air-water flushing system.
- Accessible safety cover.
- Diagonal draining worm conveyor set under angle of 35-45° equipped with reverse motion mode.
- Power supply-control panel.
- Ex-version available [option].
- Winter package enabling outdoor installation of the device, system operated through signals from two autonomic thermostats (as an option).
- Material: stainless steel. Other materials may be used on demand.

- Organic matter reduction from sand: max 99%.
- Sand drainage.
- Small size.







Specification

| Туро | Max. volume of flushed sand | D [mm] | L [mm] | H [mm] | H1 [mm] | | tub pes | Drive power | Weight |
|------------|-----------------------------|-----------|-----------|-----------|------------|-------------|--------------|-------------|--------|
| Type fl | [dm ³ /d] | | | | | DN inlet | DN outlet | [kW] | [kg] |
| DF PP 600 | 650 | 600 | 2800 | 2000 | 1150 | 80 | 100 | 0,25 + 0,25 | 170 |
| DF PP 700 | 950 | 700 | 3000 | 2100 | 1250 | 80 | 100 | 0.25 + 0.25 | 200 |
| DF PP 800 | 1100 | 1400 | 3300 | 2300 | 1400 | 80 | 100 | 0,25 + 0,25 | 220 |
| DF PP 900 | 2300 | 1600 | 3500 | 2400 | 1500 | 100 | 150 | 0,25 + 0,25 | 270 |
| DF PP 1000 | 3400 | 1800 | 3700 | 2500 | 1550 | 100 | 150 | 0,25 + 0,25 | 330 |
| DF PP 1100 | 4400 | 2000 | 3900 | 2600 | 1650 | 100 | 150 | 0,37 + 0,25 | 370 |
| DF PP 1200 | 6400 | 2200 | 4100 | 2650 | 1750 | 150 | 200 | 0,37 + 0,25 | 430 |
| DF PP 1300 | 7200 | 2400 | 4200 | 2700 | 1800 | 150 | 200 | 0,37 + 0,25 | 480 |
| DF PP 1400 | 9400 | 2800 | 4400 | 2800 | 1900 | 150 | 200 | 0,37 + 0,25 | 540 |
| DF PP 1500 | 11700 | 3000 | 4600 | 2900 | 2000 | 150 | 200 | 0,37 + 0,25 | 650 |

The dimensions above concern the devices equipped with worm conveyor assembled under 35° The devices may be individually adjusted to the investor's requirements. We provide devices dimension AutoCAD schedules on demand.











Reliable partner. Pure benefit.



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