

Grit separator with integrated grit washer - SP-PP

The grit separator combined with a grit washer is a device that combines the functions of both devices. The input medium is a hydro-mixture from grit chamber. The hydro-mixture is separated into washed grit and organic material.

If the SP-PP is to be used properly in the waste water treatment process, it is necessary that an overflow is installed in the canal behind the grit chamber so that the separated water with organic material flows into the sedimentation tank or biological section of WWTP.

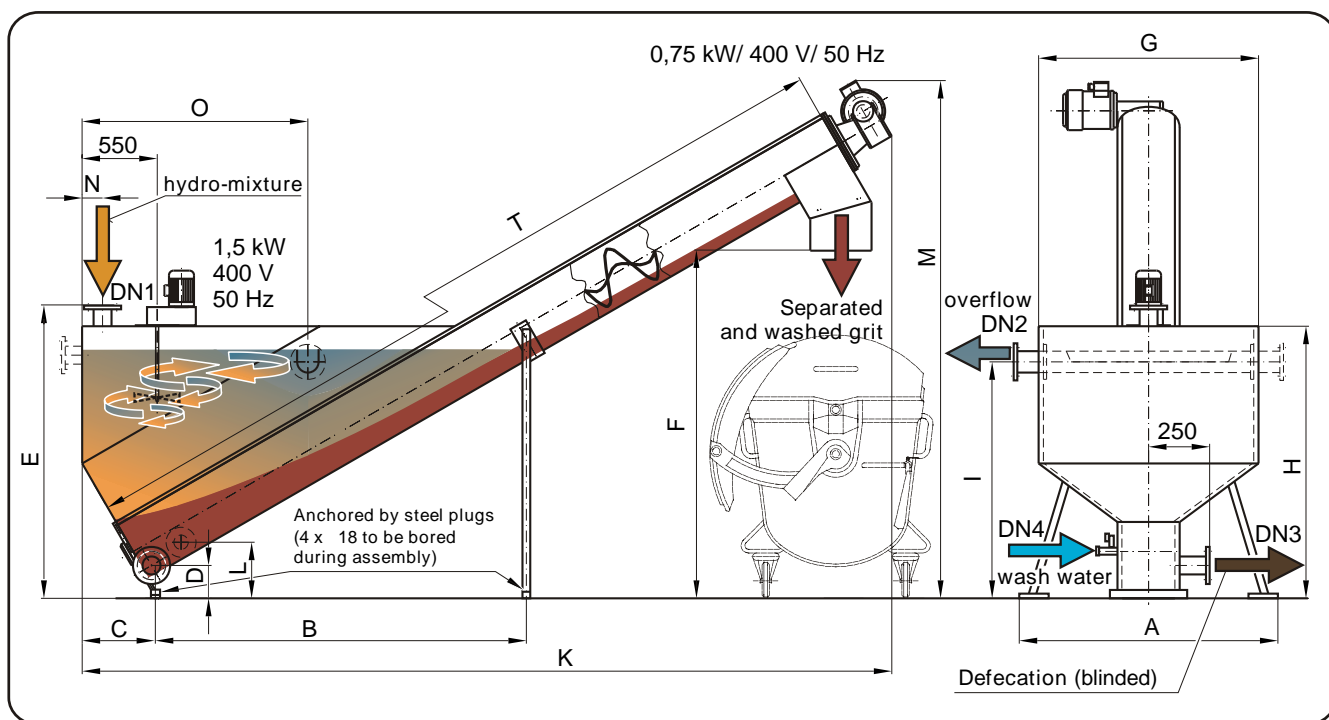
Specification	
Capacity: Q	5, 10, 15 l.s ⁻¹ of hydro-mixture
Efficiency of grit separation from organic material: (grit grains > 0,2 mm)	90 ÷ 97%*
Consumption of wash water:	3÷5 l.s ⁻¹ of wash water at 0,3 Mpa
Diameter of conveyor screw: D	250 mm
Power inputs:	conveyor screw 0,55 kW/ 400 V/ 50 Hz washing 1,5 kW/ 400 V/ 50 Hz electromagnetic valve 60 VA, 230 V
Single cycle period:	period of hydro-mixture pumping + + approx. 10 minutes wash water
Operating conditions:	a) <i>indoor</i> b) <i>outdoor</i> for temperatures ranging from -20 to +50°C with heating unit 1.54 kW / 220 V / 50 Hz
* Depends on local conditions and the line of mechanical pre-treatment Other parameter ranges need to be consulted with the manufacturer.	

Product designation: **SP-PP** φD x Q



ISO 9001

The device consists of a separation tank with washing unit and shaftless conveyor screw. The tank is fitted with technological branches functioning as input of hydro-mixture and wash water, output of separated washed grit, overflow of separated organic material and defecation of tank. The mixing parts in the washing unit and the shaftless screw are driven by an electric gearboxes. The incoming mixture is retained in a whirling layer where the separating and washing processes take place thanks to centrifugal and gravitational forces. After settlement the grains of washed grit are pushed towards the outlet, lighter parts are carried to the overflow. The quantity of incoming wash water depends on the grade of a contamination of the incoming hydro-mixture. The whole process, that is the concurrence of washing, inlet and outlet of water and the pushing of grit, is controlled by the control switchboard with an adjustable programme.



Dimensional series:

Typ	Q (l s ⁻¹) ±10%	V (m ³)	DN1/PN	DN2/PN	DN3/PN	DN4	A
SP-PP 250-5	5	1	100/10	150/10	80/10	1"	1000
SP-PP 250-10	10	1	100/10	150/10	80/10	1 1/2"	1200
SP-PP 250-15	15	2	150/10	200/10	80/10	1 1/2"	1600
B	C	D	E	F	G	H	I
2180	480	230	1500	1800	780	1600	1400
2180	480	230	1500	1800	1000	1600	1400
2580	550	230	1650	2150	1280	1800	1550
K	L	M	N	O	T	P (kW)	kg
4350	585	2700	150	1100	4000	0,75 + 1,5	690
4350	585	2700	150	1350	4000	0,75 + 1,5	780
5000	585	3100	150	1350	4700	0,75 + 1,5	940

The SP-PP is made of stainless steel, the shaftless screw and gliding rails are made of carbon steel of greater strength. The device is designed for indoor use with optional additional covering with heating unit for outdoor use.

To achieve an optimum incorporation of the equipment in the technological section of waste water treatment plants, FONTANA R offers consultations and technical support as a free customer service.



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