

PRODUCT DATA SHEET

Screw Screen in Tank (SSB-mK)

water | wastewater | sewage



OVERVIEW

This packaged screw screen provides primary treatment for untreated sewage and a wide range of industrial wastewater. The SSB-mK screw screen is equipped with a stainless steel tank to allow installation where a concrete channel is not available. The tank is complete with flanged inlet and outlet pipe stubs.

The tank can be fitted with an optional bypass chamber (as contingency if the main screen overflows) fitted with a manually cleaned bar screen. The system includes screening compaction at the end of the conveying section of the screw.



ADVANTAGES

- Low maintenance and low initial investment
- Self-cleaning with brushes fitted on the screw
- High solids removal efficiency
- Up to 50% reduction in volume & weight of screenings after compaction
- Many available options for customised system

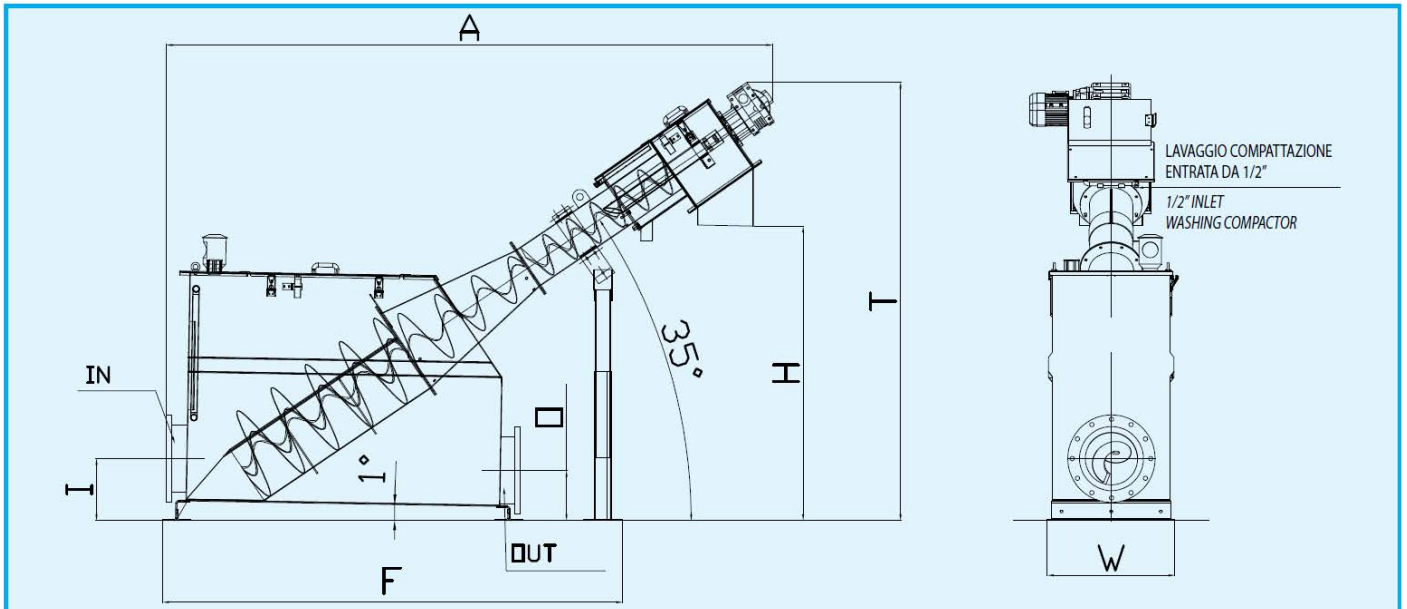
MANUFACTURING FEATURES

- Inlet flow rate; up to 970 m³/h
- Screen element options;
 - » Rounded holes 3-10mm
 - » Wedge wire 0.25-3mm

STANDARD SPECIFICATIONS

Parameter		Units	SSB-mK-110	SSB-mK-160	SSB-mK-260	SSB-mK-390	SSB-mK-610	SSB-mK-830
Treatment capacity*1	With rounded holes (mm)	Ø3	80	122	158	320	502	690
		Ø4	93	137	218	360	528	756
		Ø5	108	158	259	390	612	830
		Ø6	126	164	288	430	630	850
		Ø7	137	183	310	468	730	905
	With wedge wire (mm)	Ø10	158	194	333	495	790	970
		0.25	17	34	75	115	180	220
		0.5	45	64	95	170	300	340
		1	50	81	135	252	350	430
		2	85	100	145	303	430	580
Dimensions	mm	3	112	125	187	340	505	730
		A	3,190	3,120	3,125	3,100	4,050	4,175
		T	2,250	2,250	2,250	2,250	2,600	3,135
		H	1,500				1,750	1,950
		O	175	205	235	255	300	360
		I	220	250	285	315	380	440
		F	2,160	2,300	2,350	2,350	2,900	3,300
W	430	480	600	650	720	870		
Inlet/outlet flange*2		DN	150	200	250	300	400	500
Installed motor power, 3ph, 50hz		kW	0.55	0.75	0.75	0.75	0.75	0.75
Screw gear reducer speed		rpm	11	11	11	8	8	8
Wash water: Screen basket / compaction zone (@3 bar)		L/min	23 / 31				62 / 44	
Empty weight		kg	400	440	480	570	900	990

*1Theoretical, calculated using clean water, *2Flanges are lap joint max 10mm thick with holes P16 according to AS4087.



STANDARD INCLUSIONS + OPTIONS

Equipment		Standard Supply	Optional Supply
Screw screen in tank	Rounded holes screen element, 5mm (standard) or 3, 4, 6, 7 or 10mm	✓	-
	Wedge-wire screen element 0.25, 0.5, 1, 2 or 3mm	✓	-
	Integrated screenings compaction (can be deleted as an option)	✓	-
	Screen basket cleaning, bolted nylon brushes	✓	-
	PE breathing valve on screen tank	✓	-
	PVC pipe for returning liquid from compaction zone	✓	-
	Squared outlet spout	✓	-
	Bolted screenings compaction system cover	✓	-
	Lifting eyebolts	✓	-
	Nord drives with compact motor gearbox and cover guards	✓	-
Machine carpentry, inlet & outlet flanges, drive guards, anti-wear materials on screw and bypass chamber (where applicable)	SS304L, bolts A2 (SS304)	✓	-
	SS316L, bolts A4 (SS316) (recommended for coastal and corrosive environments)	-	✓
Bypass chamber with manual screen	Bar screen	✓	-
	Rounded holes	✓	-
	Custom	-	✓
Screw	High-carbon steel painted	✓	-
	SS304L	-	✓
	SS316L	-	✓
Washing systems	Compaction zone only, with 1/2" manual valve	✓	-
	Compaction zone with 1/2" manual valve and screening basket with 1" manual valve	-	✓
	Manifold for compaction zone and screening basket, with 1" manual valve	-	✓
Automatic Longopac bagging system for screenings with 1x 80m long bag with sun protection cover		-	✓
Overflow outlet (flanged) and/or odour extraction port (flanged)		-	✓
Extended tank for tilt-out screen maintenance		-	✓
Drive motor premium efficiency	IP55	✓	-
	IP65 with thermistor overload protection	-	✓
Surface treatments*1		✓	-

*1Stainless steel parts: stripping with acid solution, passivation with glass particles, final surfaces cleaning with anti-dust oil. Carbon steel parts: sandblasting SA 2.5 for external anti-rust paint RAL 5015

Instrumentation & Controls		Standard Supply	Optional Supply
Safety limit switches for screen and compaction zone opening hatches		✓	-
Screen tank level sensor	Conductive probe	✓	-
	Ultrasonic	-	✓
Solenoid valve kit(s) for washing system(s) 24VDC		-	✓
Mechanical over-torque protection (backlash free-ball model)		-	✓
Control panel to AS/NZS 3000, 316SS enclosure with inner door, IP56 for outdoor installation, touch screen interface, supplied loose, field wiring between control panel and equipment by others		-	✓



MODEL SELECTION

- 110** Capacity - up to 158 m³/h
- 160** Capacity - up to 194 m³/h
- 260** Capacity - up to 333 m³/h
- 390** Capacity - up to 495 m³/h
- 610** Capacity - up to 790 m³/h
- 830** Capacity - up to 970 m³/h

4 Machine carpentry, flanges, drive guard, anti-wear material on screw and optional bypass chamber in 304L SS, bolts A2 (304 SS) (standard)

6 Machine carpentry, flanges, drive guard, anti-wear material on screw and optional bypass chamber in 316L SS, bolts A4 (316 SS)

D Rounded holes screen element [select aperture]

W Wedge-wire screen element [select aperture]

X Bypass chamber, without (standard)

M Bypass chamber with manual screen [select type & aperture]

X Screw in high-carbon steel painted (standard)

4 Screw in 304L SS

6 Screw in 316L SS

X Washing system in compaction zone with manual valve (standard)

S Washing systems in screen basket and compaction each with manual valve

X Solenoid valve kits for all washing systems, without (standard)

S Solenoid valve kits for all washing systems

X Automatic bagging system for screenings, without (standard)

L Longopac automatic bagging system for screenings

X Control panel, without (standard)

C Control panel, for external installation

X Standard specification

C Custom specification

SSB-mK - _ _ _ _ _ _ _ _ _ _

NEED A QUOTE?

COMPLETE THIS TABLE
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