



# Drum fine screen

**VSA**

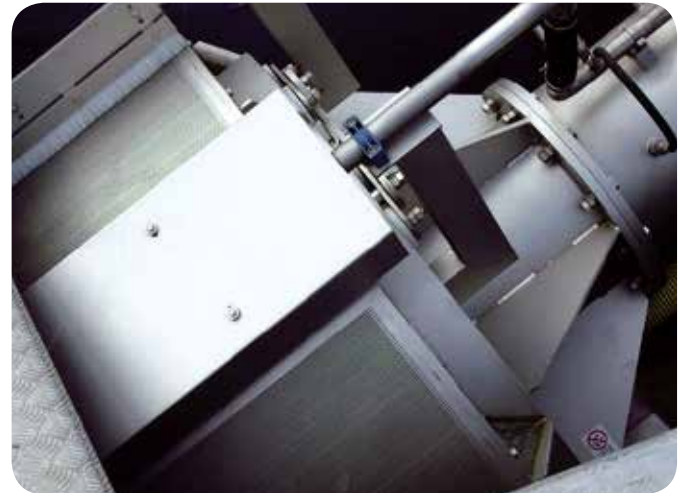
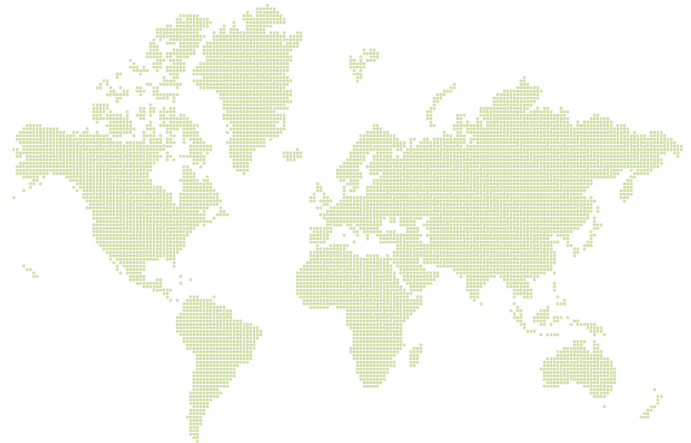
**VSA MBR**



technology experience  
versatility

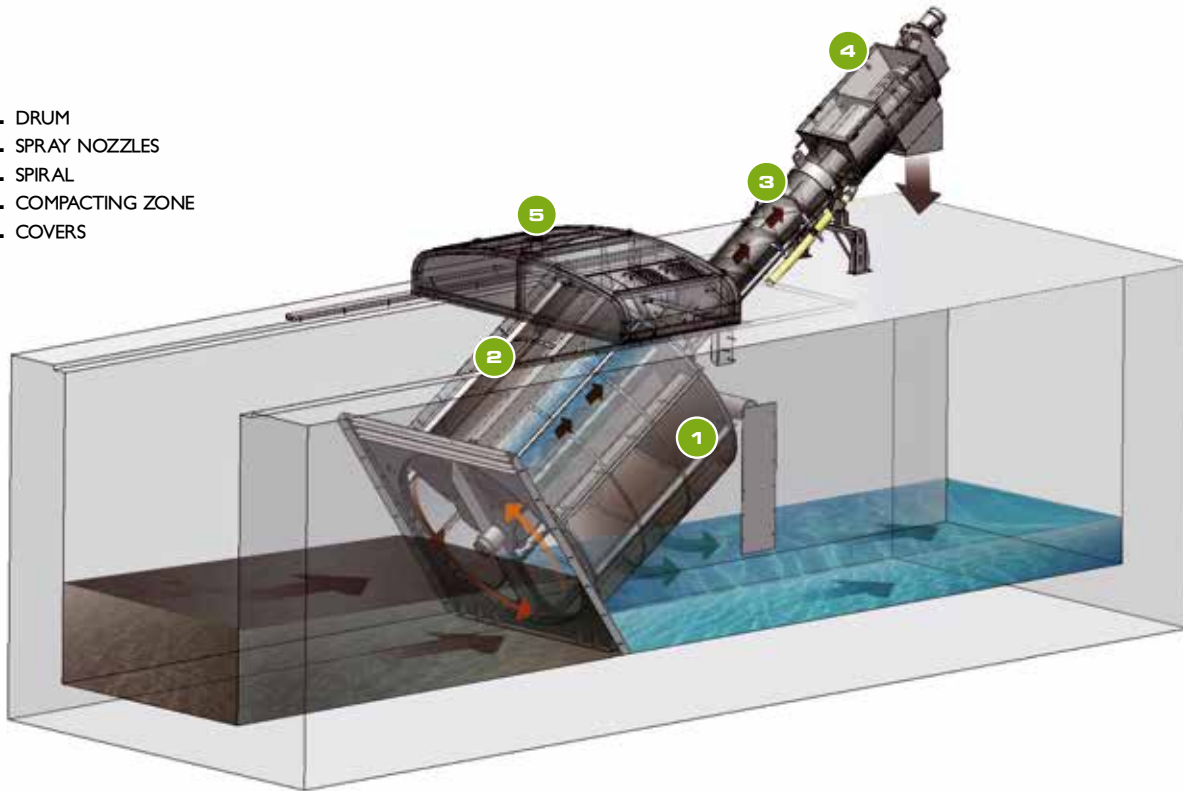
## features & benefits

1. The VSA screens, washes, conveys, and dewateres screenings all in one unit. Eliminates the need for multiple pieces of equipment.
2. VSA units are available for in-channel or in-tank applications. Same efficient operation for either gravity or pumped flows.
3. VSA screening systems have three separate washing functions. The unit is designed to wash organics from the screenings and be self-cleaning at the screen basket and in the dewatering zone.
4. Proprietary triple face seal. Designed in conjunction with a major MBR manufacturer for maximum capture efficiency of fine solids including hair and to be non-bypassing.
5. Spray nozzles on the outside of the screen basket produce an overlapping spray pattern. More efficient cleaning of screen basket and better capture of small solids.
6. A cleaning brush on the exterior of the screen keeps solids contained within the screening basket. Prevents small solids from passing through the screen and maintains a clean screen surface for the incoming flow.
7. Durable brush is attached to the spiral at the auger trough. Even the smallest solids are swept into the auger trough for removal.
8. Large, robust, self-lubricating bronze bushing. No lubrication pumps or maintenance required.
9. Common drive operates the rotating screen basket and screw conveyor. Synchronized operation for lower energy consumption and less maintenance.
10. Hinged and latched compaction zone access with safety interlock switch. Provides ease of access with no tools required yet prevents opening during operation.
11. Screenings are completely enclosed within the transport tube and dewatering zone. Creates a cleaner, drier screenings area with reduced odor. Optional bagger is available.
12. Optional heat tracing is available. Screens are easily adaptable for outdoor installations in colder climates.
13. Screening drum is available in perforated plate or mesh screen media. Custom engineered to meet specific application requirements.
14. Exception design, durable construction. Designed for high capture efficiency and years of reliable operation.
15. Removable, sliding Aluminum covers. Covers slide open and out of the way to perform routine maintenance or to pivot the unit out of the channel.



The fine screen **SPIRAMATIC \_ mod. VSA** can be designed according to the customers' requirements. It is possible to have applications in tanks, channels and well which already exist.

- 1. DRUM
- 2. SPRAY NOZZLES
- 3. SPIRAL
- 4. COMPACTING ZONE
- 5. COVERS



The fine screen **SPIRAMATIC \_ mod. VSA** is composed of a filtering body made up of a set of steel bars, whose distance determines the desired slot, or of a punched holed filter for special applications. The filtering body has a cylindrical shape. It can be placed either in a channel or in a steel tank. The filtering body rotates around its axle, thus conveying screenings to a charging hopper placed in the centre. A set of spray nozzles washes the filter. A screw, placed inside the conveying pipe with its top in the unloading hopper, conveys the screenings towards the next treatment stages. During the next stages the screenings is washed off the organic substances. Then, it is compacted and dehydrated in the compacting and draining area. Finally, the material is discharged through an unloading chute in a container or in a compacting press.



SPECIFICATIONS	VSA • VSA MBR
FLOW RATE	up to 1400 l/s
INCLINATION ANGLE	35°
FILTERING DRUM Ø	from 600 to 3000 mm
INSTALLED POWER	from 0,75 to 3 kW
PROTECTION	IP 55
VOLTAGE	230/400 V - 50 Hz
SCREW REVS	from 5 to 8 1/min

MATERIALS OF CONSTRUCTION	
Shafted screw	ST52-3 Alloy Steel (stainless steel AISI 304/316)
Supports, End Plates, Anti-rotation bars	stainless steel AISI 304 (316 L optional)
Tubes and Discharge Chutes	stainless steel AISI 304 (316 L optional)

\* additional sizes available

## Three different types of filter



- Wedge wire, from 0.5 up to 10 mm



- Perforated plate from 1 up to 6 mm



- Mesh filter from 0.5 up to 1 mm

### screening

- Drum fine screens for municipal WWTP and for MBR pretreatment mod. VSA-VSA MBR
- Mechanical coarse-medium-fine screens mod. GVB-GVF-GVS
- Rotary fine screens mod. RTV
- Rotary filtering drums mod. SGR
- Filter screws mod. VSR
- Step screens mod. VTR
- Overflow spillways mod. VSE
- Belt fine screen mod. VFR

### pretreatment

- Compact plants mod. KOMBI
- Septage receiving stations mod. VFA DM
- Sand classifiers/washers mod. CLS-CLSW
- Shafted washer compactors and hydraulic compactors mod. VWP-CMP
- Travelling bridges for grit and grease removal mod. PVD

### sedimentation

- Circular clarifiers mod. PTP-PTA
- Travelling bridge for settlement tanks mod. PVS
- Sludge thickeners mod. ISP

### accessories

- Screw conveyors mod. CCL
- Penstocks mod. PAR
- Rotating brushes mod. SPZ
- Bagger assemblies

## RANGE OF PRODUCTS



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Certificate no. 50 100 3460 attests the SAVI S.r.l. Quality System is in conformity with the rule UNI EN ISO 9001:2008. The certificate is valid as for the design, manufacture, installation, and technical assistance of machines and accessories for water treatment plants.

