

VERTICAL IN-CHANNEL SCREW SCREENS RSV

Vertical Screw Screens for Mechanical solids/liquids separation

MACHINE DESCRIPTION

R.E.M. range of screw screens for solids/liquid separation is a broad and vast selection where units for every application can be found. **RSV** Vertical Screw screens are multipurpose units capable to screen, convey, compact and dewater the screenings in pumping stations or deep wells installations.

- Their simple construction allow a fast installation/removal, generally in less than 1 hour.
- The built-in bypass allow to operate the plant even in failure conditions of the screen.
- The unit is very silent and can be easily installed in residential areas.

WORKING LOGIC FOR SCREW SCREENS RSV

REM RSV screw screens are generally installed in municipal applications as they allow to have a single unit performing the whole process. **RSV** screens are designed for straight vertical installation allowing the application as:

- Pump protection in pumping stations.
- Screen for deep narrow pits and piping inflow.
- Industrial effluent treatment.



MAIN FEATURES FOR SCREW SCREENS RSV

1. Screen frame available with perforated or wedge-wire screen aperture in various sizes.
2. The machine is self-cleaning, thanks to the brushes fitted on the screw conveyor.
3. The shaftless screw conveyor allows lifting of materials of different shapes and sizes, which are, however, difficult to transport.
4. The wide range available makes it possible to choose the right version to suit the application requirements.
5. The stainless steel structure along with brushes made of plastic material enable the use of the machine for handling acids, basic products and foodstuffs.
6. Entire operation of the machine is handled by the drive units.
7. Installation is easy and fast.
8. Maintenance is very simple and time saving.



GENERAL DIMENSIONAL DATA FOR SCREW SCREENS RSV

Here we provide some information about technical nature for this type of screens:

- Filtration with screens sizes ranges from 250 microns (wedge-wire) to 12 mm (perforated).
- Screenings removal and conveying to the discharge point with a single drive.
- Screenings volume reduction up to 50%.
- Effective drainage of the screenings along the conveying section combined with a compaction section for more volume reduction and water removal.
- Screenings washing performed by the REMSPRAY integrated system using 3 independent washing cycles.

The main advantages are:

- reduced installation costs.
- high solids capture removal (52% tested).
- high screenings volume reduction.
- nuisance and leachate reduction.
- reduced handling and disposal costs.

R.E.M. RSV screw screens can be equipped with the following accessories:

- bagging (single or endless bag type).
- heating and weather protection.
- centralized solenoid valves and piping.
- control cabinet.
- ATEX or UL NEMA 7 EX-proof version.

STANDARD DIMENSIONAL DATA FOR VERTICAL SCREW SCREENS RSV

Here we provide some information about technical nature for this type of screens.

FLOWRATES m³/h

RSV MODELS	PERFORATED PLATE SCREEN - mm		
	3	5	6
RSV300	36	61	90
RSV500	72	162	252
RSV700	151	378	558

Materials of construction for fabricated parts:
 *Stainless Steel AISI304 / *Stainless Steel AISI316

Materials of construction of spiral:
 *Stainless Steel AISI304
 *Stainless Steel AISI316
 *High resistance steel HRS

RSV MODELS	Ø - mm	A - mm	B - mm	C - mm	CHANNEL WIDTH - mm	ØINLET
RSV300	219	5500	3000	1400	400	DN150
RSV500	219	5900	3000	1800	600	DN200
RSV700	323	6000	2000	2500	800	DN250

n.b.: the manufacturer may modify some dimensions or sizes without prior information

