

IN-PIPING SCREW SCREENS RSEC

In-piping Screw Screens for Mechanical screening discharging



MACHINE DESCRIPTION

The R.E.M. screw screen, mod. RSEC, is a type of machine designed to treat wastewater deriving from:

1. Treatment of sewage or industrial wastewater.
2. Treatment of sewage from Septic tanks.
3. Treatment of wastewater contained in industrial sludge.

They work by separating the solid parts from the liquid leaving these plants; the models described here are identified as:

- Compact Screening systems for drain waters - mod. RSEC.

The RSEC model screens are used for processing the following materials:

- Sewage or industrial wastewater.
- Wastewater of another nature.

These screens are suitable to be installed along pipes carrying wastewaters. The treatment of these wastewaters comprises a screening process necessary to be able to make the water recirculate without any problem, filtering it in the best way to remove all the solid parts. For this purpose, screw screens are used to extract and convey the solid parts by a screw to the discharge module, dumping into a special container to collect waste.

WORKING LOGIC FOR PRESS SCREENS RSEC

The screen is generally controlled by the level indicator ahead of the screen. The unit is equipped with ultrasonic level sensors providing the following signals:

1. Low level
2. High level
3. Alarm

Once the water level reaches the high level, the screw starts rotating and is the **STAY ON** until the water level drops below the low level. In case the water level reaches the **ALARM** a visual signal will be activated as the unit requires attention.

GENERAL DIMENSIONAL DATA FOR SCREW SCREENS RSEC

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).
- Models suitable for piping from DN150 to DN500.
- Screenings removal and conveying to the discharge point with a single drive.
- 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).
- nuisance and leachate reduction.
- reduced handling and disposal costs.

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

- vertical discharge.
- 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.

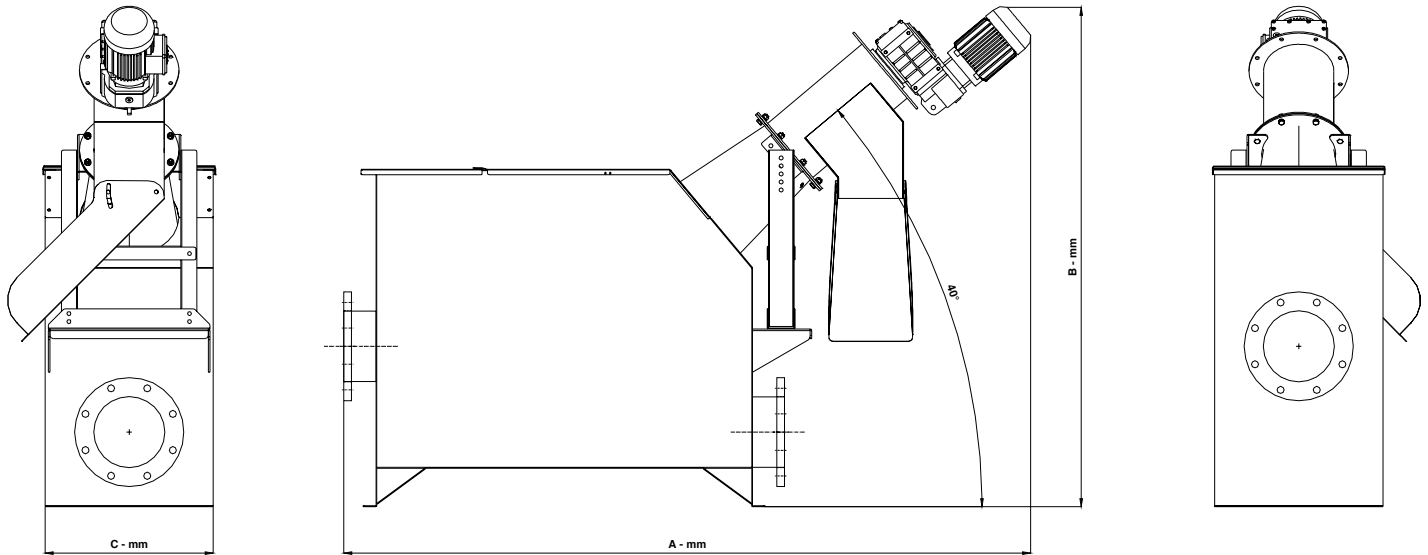


STANDARD DIMENSIONAL DATA FOR PRESS SCREENS RSEC

FLOWRATES m³/h

| RSEC MODELS | PERFORATED PLATE SCREEN - mm | | | | RSEC MODELS | WEDGE WIRE SCREEN - mm | | | |
|-------------|------------------------------|-------|-------|-------|-------------|------------------------|------|------|-------|
| | 3 | 4 | 5 | 6 | | 0.25 | 0.5 | 1 | 2 |
| RSEC200 | 75.6 | 97.2 | 115.2 | 129.6 | RSEC200 | 28.8 | 57.6 | 86.4 | 108 |
| RSEC300 | 115.2 | 151.2 | 169.2 | 198 | RSEC300 | 54 | 90 | 126 | 151.2 |
| RSEC400 | 198 | 234 | 270 | 306 | RSEC400 | 79.2 | 144 | 216 | 252 |
| RSEC500 | 324 | 378 | 414 | 468 | RSEC500 | 144 | 234 | 342 | 396 |
| RSEC600 | 432 | 504 | 576 | 684 | RSEC600 | 180 | 306 | 468 | 540 |
| RSEC700 | 756 | 900 | 972 | 1116 | RSEC700 | 324 | 540 | 756 | 900 |

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

INCLINATION: 40°

| RSEC MODELS | Ø - mm | A - mm | B - mm | C - mm | Ø INLET | Ø OUTLET |
|-------------|--------|--------|--------|--------|---------|----------|
| RSEC200 | 219 | 2915 | 2170 | 640 | DN200 | DN200 |
| RSEC300 | 219 | 2915 | 2170 | 640 | DN200 | DN200 |
| RSEC400 | 219 | 2930 | 2160 | 715 | DN200 | DN200 |
| RSEC500 | 219 | 3060 | 2240 | 860 | DN300 | DN300 |
| RSEC600 | 323 | 4060 | 3150 | 1400 | DN400 | DN400 |
| RSEC700 | 323 | 4060 | 3150 | 1400 | DN400 | DN400 |

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