

COMPACTING and PRESSING IN-PIPING SCREW SCREENS RSPC

Pressing Screens for Mechanical screening compacting

MACHINE DESCRIPTION

The **R.E.M.** press screen **RSPC**, 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 and Compacting systems for drain waters - mod. RSPC.**

The **RSPC** 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 recirculate the water without any problem, filtering it in the best way to remove all the solid parts. For this purpose, pressing screens are used to extract and convey the solid parts by a screw to the compaction and dewatering module, dumping into a special container to collect waste.

WORKING LOGIC FOR PRESSING SCREENS RSPC

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 **STAYS 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 DIMENSION DATA FOR SCREW SCREENS RSPC

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

- **Filtration with screens of size ranges from 250 microns (wedge-wire) to 12 mm (perforated).**
- **Models suitable for piping from DN150 to DN500.**
- **Removal and conveying of screenings to the discharge point with a single drive.**
- **Volume reduction of screenings up to 50%.**
- **Effective drainage of the screenings along the conveying section combined with a compaction section for more volume reduction and water removal.**
- **Washing of screenings performed by the REMSPRAY integrated system using 3 independent washing cycles.**



The main advantages are:

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

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

- vertical discharge.
- bagging (single or endless bag type).
- heat and weather protection.
- centralized solenoid valves and piping.
- control cabinet.
- ATEX or UL NEMA 7 EX-proof version.
- by-pass with manual bar screen.

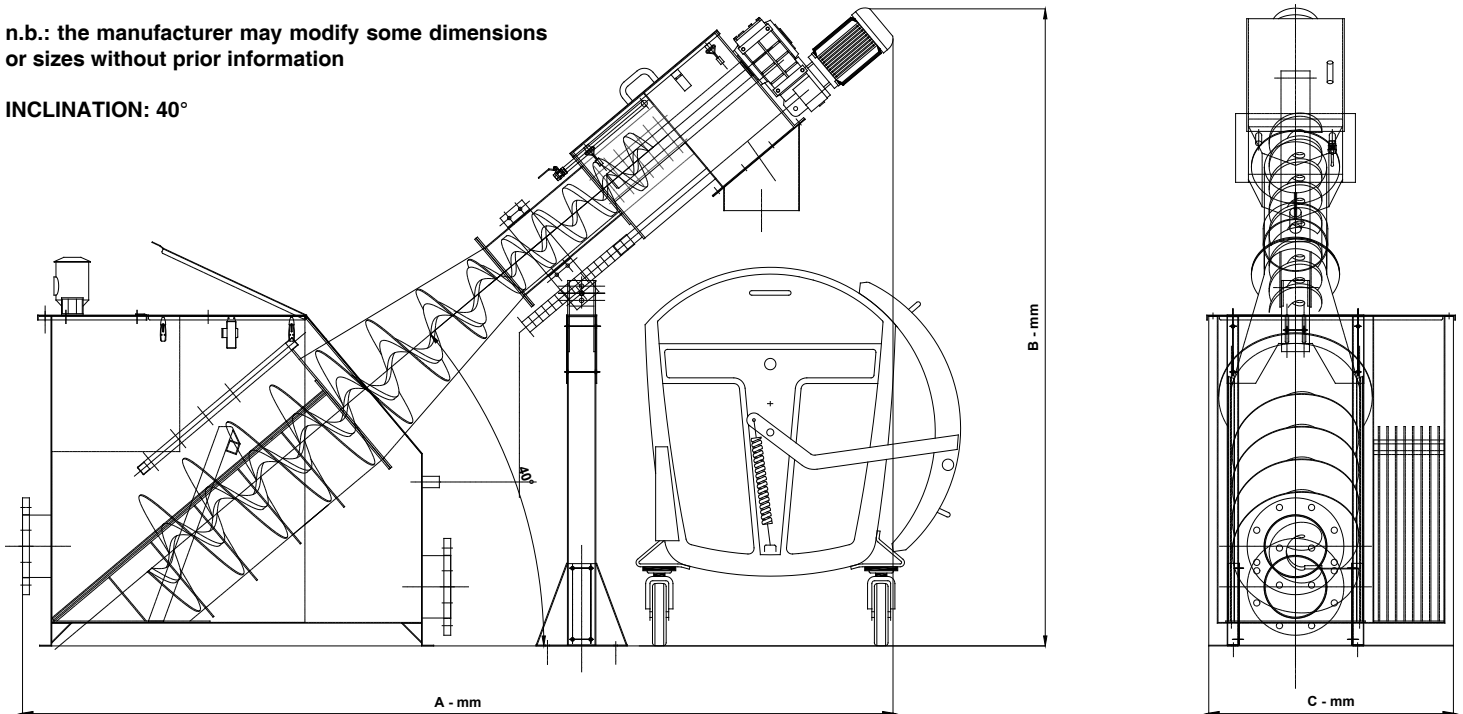
STANDARD DIMENSION DATA FOR PRESSING SCREENS RSPC

FLOW RATES m³/h

RSPC MODELS	PERFORATED PLATE SCREEN - mm				RSPC MODELS	WEDGE WIRE SCREEN - mm			
	3	4	5	6		0.25	0.5	1	2
RSPC200	75.6	97.2	115.2	129.6	RSPC200	28.8	57.6	86.4	108
RSPC300	115.2	151.2	169.2	198	RSPC300	54	90	126	151.2
RSPC400	198	234	270	306	RSPC400	79.2	144	216	252
RSPC500	324	378	414	468	RSPC500	144	234	342	396
RSPC600	432	504	576	684	RSPC600	180	306	468	540
RSPC700	756	900	972	1116	RSPC700	324	540	756	900

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

INCLINATION: 40°



RSPC MODELS	Ø - mm	A - mm	B - mm	C - mm	Ø INLET	Ø OUTLET
RSPC200	219	2915	2170	640	DN200	DN200
RSPC300	219	2915	2170	640	DN200	DN200
RSPC400	219	2930	2160	715	DN200	DN200
RSPC500	219	3060	2240	860	DN300	DN300
RSPC600	323	3375	2440	1350	DN400	DN400
RSPC700	323	3795	2860	1350	DN400	DN400

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