

## HIGH PRESSURE SCREW COMPACTORS RHW

### High Pressure Shafted Screw Washing Compactors



#### MACHINE DESCRIPTION

**R.E.M.** high pressure washing compactors, mod. **RHW**, are units used to wash, dewater and compact screenings extracted from:

- **Municipal or industrial waste water treatment plants.**
- **Intermediate process water treatment.**

The **RHW** washer compactor is suitable for washing, compacting and dewatering screenings from any screen but it is mainly designed for installations where the screenings quality is mostly relevant.

The basic design is a shafted screw compactor combined with an elephant trunk discharge. The screw has a double flighting to have a more even pressure during the working cycle. The flighting is shafted and directly coupled to the drive.

The main body features a slotted **tube** that drains the free water directly. The spiral is also equipped with brushes to keep the drainage section clean and free from sediments. The collecting assembly is also equipped with a washing system to remove any residual fecal material and avoid the formation of odours.

The separated liquid is drained through the outlet port underneath the drive (equipped with hose). A complex system of washing systems along the body and the elephant trunk allows a good washing effect and prevents from blockages at any time.



The inlet hopper and the elephant trunk can be easily modified to accommodate the layout needs. The **RHW** washer compactor is suitable for the following applications.

- **Screenings with high organic content.**
- **By-products from solid waste.**
- **Food industry by-products.**

#### WORKING LOGIC FOR HIGH PRESSURE COMPACTORS RHW

The **RHW** high-pressure compactor is generally installed underneath a screen. A mixture of screenings and water are loaded and, while conveyed toward the discharge section, are washed and compacted at the compaction section. All the liquid is discharged through the drain.

#### MAIN FEATURES FOR HIGH PRESSURE COMPACTORS RHW

RHW compactors are made in different versions, all without intermediate supports. The characteristics of the **RHW** compactors are:

1. Standard construction AISI 304/AISI 316.
2. Square, rectangular or inclined Inlets and outlets (inclination 15 deg max).
3. Liner is AISI304 wear bars (in the compaction section only).
5. No mechanical components in direct contact to the handled product.
6. No clogging or blockages risks even with fibrous materials.
7. Unit entirely enclosed for odour/spillages prevention.
8. Possibility to discharge in plastic bags.
9. No nuisance or emissions.
10. Easy and quick maintenance.

R.E.M. RHW washer compactors can be equipped with the following accessories:

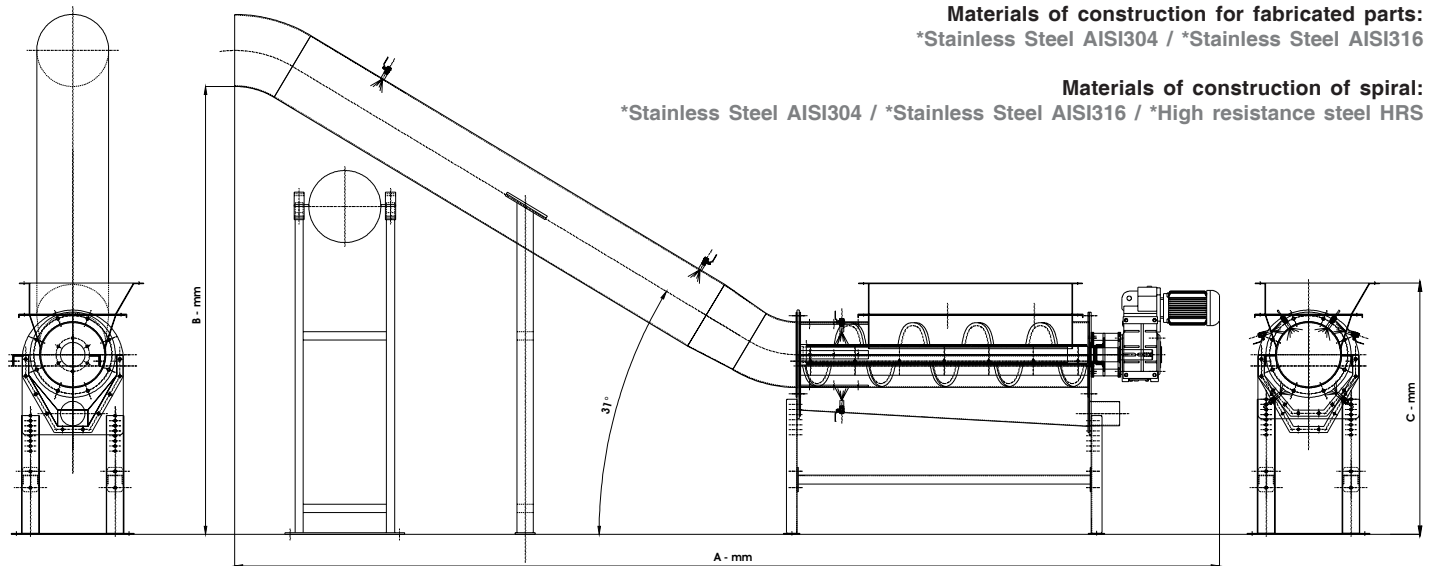
- vertical discharge.
- bagging (single or endless bag type).
- heating and weather protection.
- centralized solenoid valves and piping.
- control cabinet.
- ATEX or UL NEMA 7 EX-proof version.

STANDARD DIMENSIONAL DATA FOR HIGH PRESSURE COMPACTORS RHW

RHW MODELS	A - mm	B - mm	C - mm	SOLIDS REMOVAL CAPACITY
RHW200	4657	1409	1000	2 m³/h
RHW300	4657	2206	1238	3 m³/h

The percentage of the dry matter, present in solid extracted is, at least, equal to a 25%. That percentage depends on type of waste.

THE PERCENTAGE OF REDUCTION IN THE VOLUME OF WASTE IS GREATER THAN 60%.



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

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

