COMBY PLANTS RCT1

Compact Systems for pre-treatment of cesspool-interceptor septage

MACHINE DESCRIPTION

The RCT1 septage acceptance unit is a system studied to receive and mechanically pre-treat effluents from cesspools with a single compact unit.

The sludges, discharged from tanker trucks, are filtrate to remove large particles. Screenings are pre-washed and compacted to reduce the organic content and the volume. The conditioned effluent is afterwards dischrged into the biological wastewater treatment plant. R.E.M. offers the unit in 2 different sizes:

- RCT1-15: screening up to 50 m3/h of cesspool liquor.
- RCT1-30: screening up to 100 m3/h of cesspool liquor.

WORKING LOGIC FOR COMBY PLANTS RCT1

Tanker trucks get connected to the unit through a flex hose DN100 and clamped by a quick spherical connection. Solid large particles included in the waste are captured and removed by the inlet fine screwscreen. The screw removes and compact the screenings before discharge. Along the conveying section is installed a washing system consisting of a set of nozzles where pressurised water is sprayed onto the screenings themselves.

The washing system allows to remove fecal matter from the screenings discharging a neat solid which can be landfilled without bothering of smells or leakages. At the discharge a built-in compactor is installed reducing the screenings volume by up to 50%.







MAIN ADVANTAGES FOR COMBY PLANTS RCT1

- No leaks, smells or aerosols generated by the system. No drives in contact with the sludge. Compact design and small footprint. No concrete casting required. Low operation and maintenance costs

- Low operation and maintenance costs. Low costs for installation and erection. Excellent screening performance with up to 52% solids capture ratio.

GENERAL DIMENSIONAL DATA FOR COMBY PLANTS RCT1 Here we provide some information about technical nature for this type of units:

- Filtration with 6 mm perforated screen.
- 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.

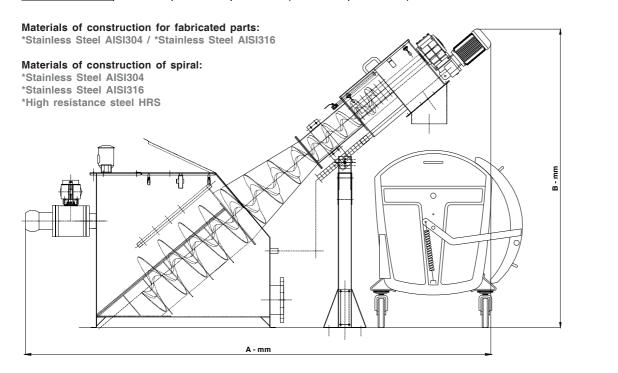
R.E.M. RCT1 septage receiving stations can be equipped with the following accessories:
vertical discharge.
bagging (single or endless bag type).
heating and weather protection.
centralized solenoid valves and piping.
control cabinet.
ATEX or UL NEMA 7 EX-proof version.

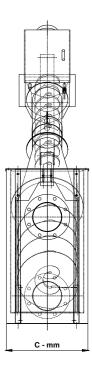
STANDARD DIMENSIONAL DATA FOR COMBY PLANTS RCT1

RCT1 MODELS	A - mm	B - mm	C - mm	Ø INLET	Ø OUTLET	FLOWRATES m³/h
RCT1/15	3490	2240	610	DN100	DN200	50
RCT1/30	4766	3470	1065	DN100	DN200	100

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

INCLINATION: 40°







R.E.M. AUTOMATION INC. - 530 Burnside Avenue - Inwood, NY 11096 - United States Phone: +1 732 993 9093 - Fax: +1 347 287 6797 - Web page: www.remintl.com

R.E.M. srl - Via dell'Industria, 53/C - Zona Industriale Corte Tegge - Cavriago (RE) - IT-40025 - Italy Phone: +39 0522 1530338 - Fax: +39 0522 1530346 - Web page: www.remintl.com