



# LARGE SCALE PLASTIC GOODS

Products & Solutions



# COMPANY INFORMATION AND OUR EXPERIENCE

- The company was established in 2005;
- **ROTONS Ltd.** turnover in 2023 was **3,7 M EUR** including **2,2 M EUR** of export products;
- The company has approx. 3000 m<sup>2</sup> of production area and 35 employees
- **ISO 9001** quality management was introduced in 2013;
- In 2011 and 2015 the company was awarded in the nomination "Import Substitute Product" and "Export and Innovation Award 2015" of the **LIAA** (Investment and Development Agency of Latvia) competition



# COMPANY INFORMATION AND OUR EXPERIENCE

- Work on the development of the **company's infrastructure** continues as we started the installation of **60 kW** solar power unit on the roof of new production hangar in June 2021
- **ROTONS Ltd.** purposefully develops and expands **exports**, regularly participates in the **IFAT** exhibition in Munich, as well as uses **"green"** technologies at the production plant

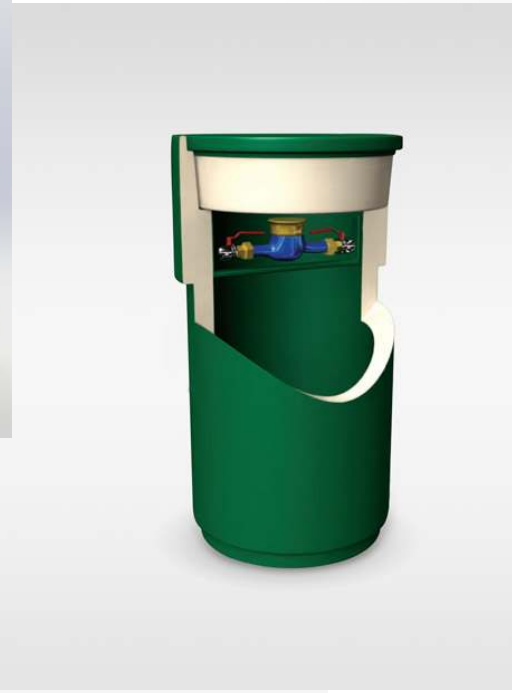
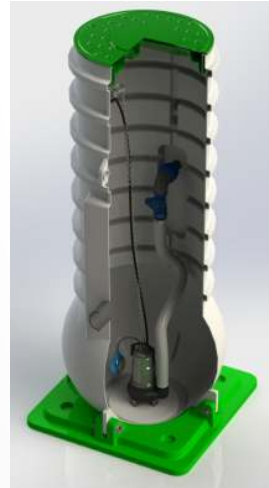


# COMPANY INFORMATION AND OUR PRODUCTION

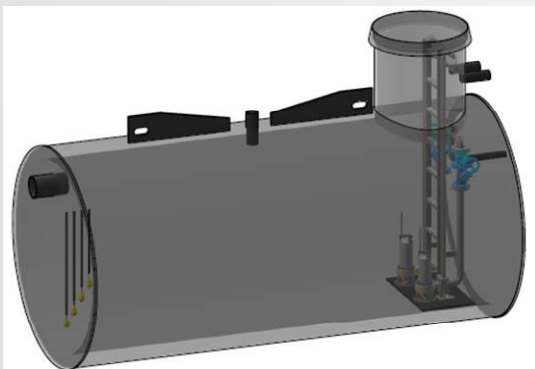
- **ROTONS Ltd.** produces bulky plastic goods using two types of technology:
  - **Rotational moulding** (used for the serial production);
  - **Welding with extruders** (used for production of non-standard parts)
- Our company fulfils **individual** tailor-made orders and offers **ready-made/serial** products:
  - Prefabricated **pumping stations, reservoirs** and **septic tanks**;
  - **Wells** for flow meters, valves, boreholes and individual water meters;
  - **SBR** wastewater treatment systems with CE certificate;
  - Bulky & smaller plastic products: tanks, grease separators, sand traps, pallets, barriers, flower pots, pontoons etc.



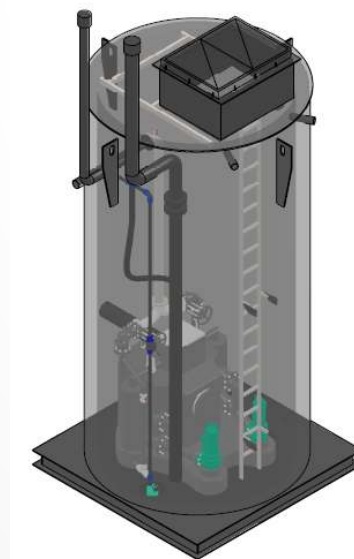
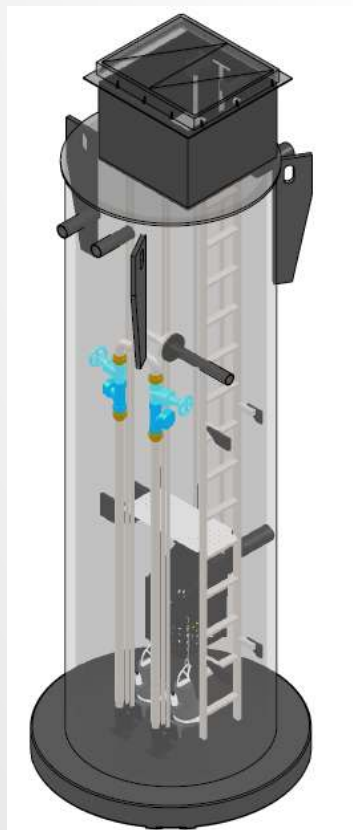
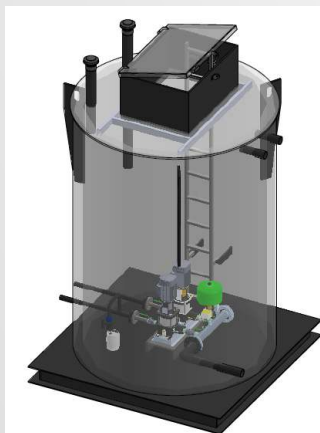
# GENERAL PRODUCT INFORMATION



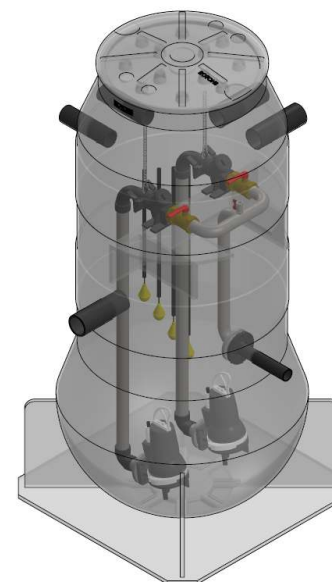
# PREFABRICATED PUMPING STATIONS



**FLYGT**  
a xylem brand



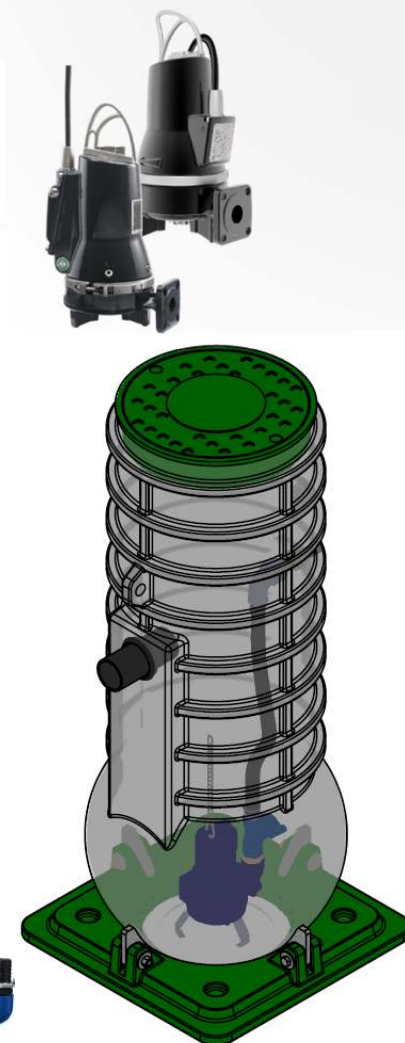
**GRUNDFOS**



**wilo**



**KSB**



# PREFABRICATED PUMPING STATIONS

## Advanced Solution

- **Advantages** of the solution:
  - HDPE double-wall  **durable housing**;
  - **Special baseplate with integrated concrete layer**;
  - Aesthetic **aluminium lid** or cast iron cover (fixed or floating);
  - Thermal insulation of the housing is not necessary;
  - All parts are made of **corrosion resistant materials**;
  - Manufacture and welding are performed by certified personnel;
  - **Coarse fraction separation basket** as an option;
  - **Knife gate valve** (HDPE/AISI 304) on the inlet pipe as an option;
  - **Service platform** is made of non-slip GRP grid
- **Benefits** of the solution:
  - Short installation time of the WWPS on site;
  - Requires no additional concrete base plate installation;
  - Durable polyethylene housing is **impact** and **stress resistant**;
  - **10 year warranty** of the housing (Uponor Weholite);
  - **Long-term investment** with Declaration of Performance & technical documentation in English provided



Unique baseplate with integrated reinforced concrete

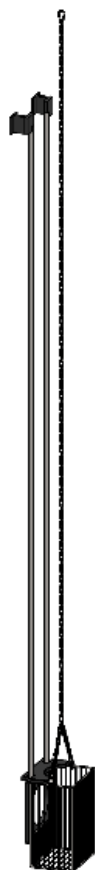
# PREFABRICATED PUMPING STATIONS



Flanged gate valves (HAWLE or TECOFI) – cast iron



Non-return valves (HAWLE or TECOFI) – cast iron

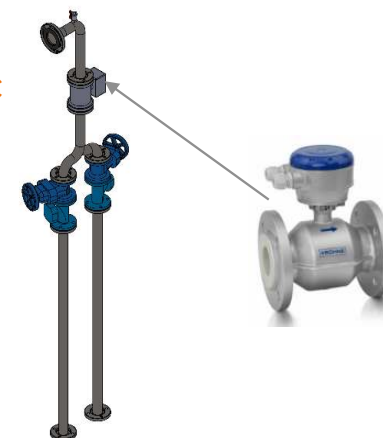


Screening basket on guide pipes – HDPE or AISI304



Knife gate valves – HDPE/AISI304

Electromagnetic Flow meter



Internal piping – AISI304 or AISI316



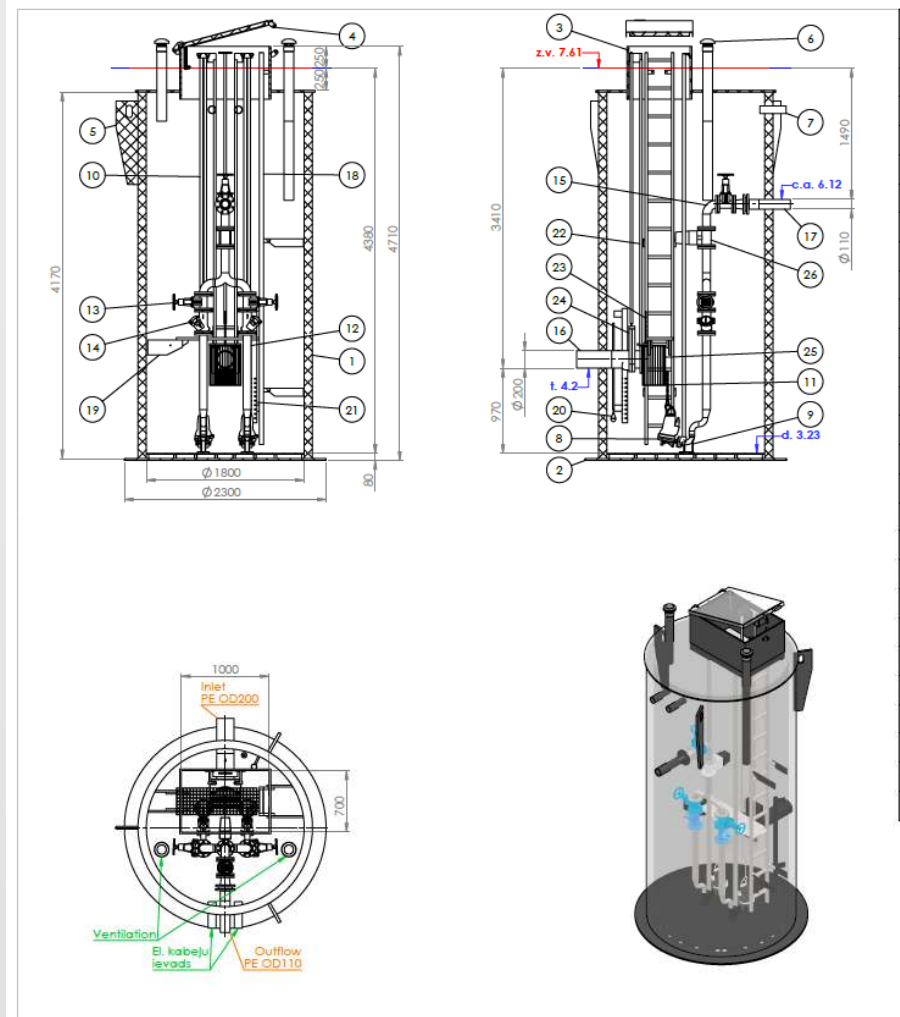
Aluminium lid with insulation

Cast iron cover (traffic zone)





# PREFABRICATED PUMPING STATIONS



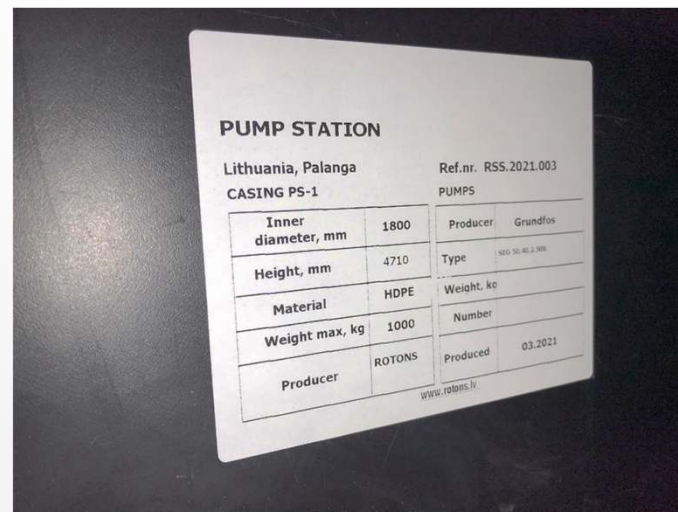
SPECIFICATIONS					
POS.	DESCRIPTION	SIZE	MATERIALS	QTY.	NOTES
1	Double-wall housing	ID1800	HDPE pipe SN4	1	
2	Sump base with steel frame		HDPE / AISI304	1	
3	Service manhole	1000x700	HDPE	1	
4	Lockable hatch with heat insulation	1000x700	Aluminum / Polystyrene foam	1	
5	Lifting lug		HDPE	3	
6	Ventilation pipe	OD110	HDPE / PVC-U	2	
7	Electrical cable input	OD90	PE100	2	
8	Pump SEG 50.40.2.50B	DN50		2	GRUNDFOS
9	Pump suspension unit	DN50, Rp2"	Cast iron	2	GRUNDFOS
10	Pump guide pipe	DN25	AISI 304	4	
11	Pump lifting chain		AISI316	2	
12	Internal piping	DN50 / DN80 / DN100	AISI 304	1	
13	Flanged valve	DN80	Cast iron	3	HAWLE or equivalent
14	Ball check valve flanged	DN80	Cast iron	2	TECOFI or equivalent
15	Air release tap for manometer	G 1/2"	AISI304	1	
16	Inlet pipe	OD200	PE100	1	
17	Outflow pipe	OD110	PE100	1	
18	Ladder with anti-slip coating		AISI 304	1	
19	Service platform with anti-slip coating		AISI304 / HDPE	1	
20	Pipe for float switch installation	OD20	PP-R	1	
21	Hydrostatic level sensor and mounting pipe	OD63		1	
22	Basket guide pipe	DN20	AISI 304	2	
23	Basket lifting chain		AISI316	1	
24	Gate valve	OD200 (DN200)	HDPE / AISI 304	1	
25	Screening basket		AISI 304	1	
26	Electromagnetic flow sensor	DN80		1	SIEMENS



**SAMPLE  
DRAWING**

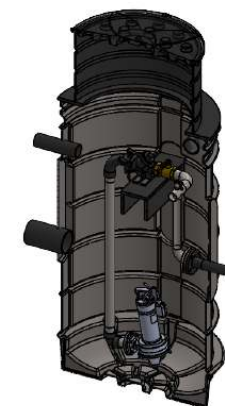
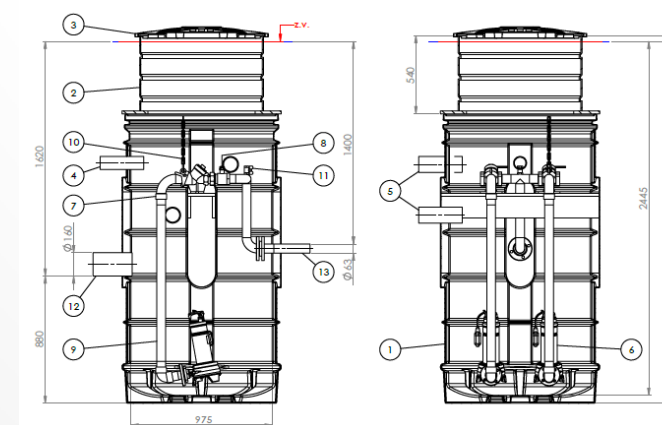
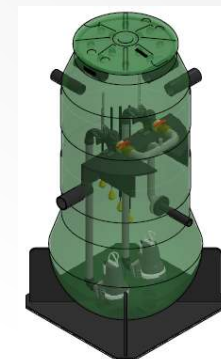
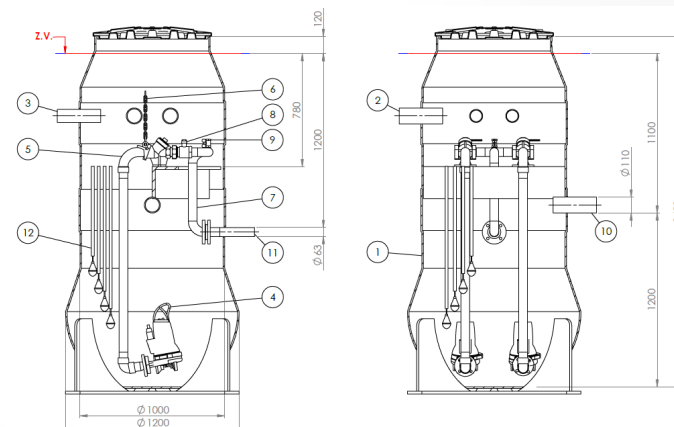
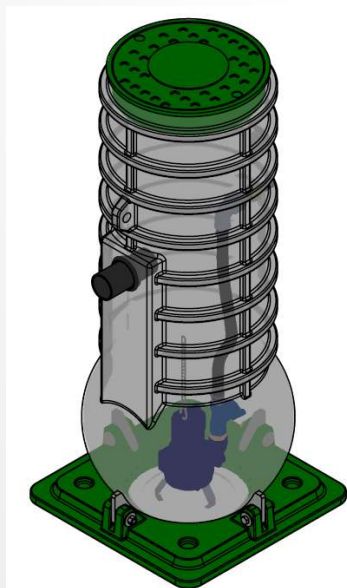
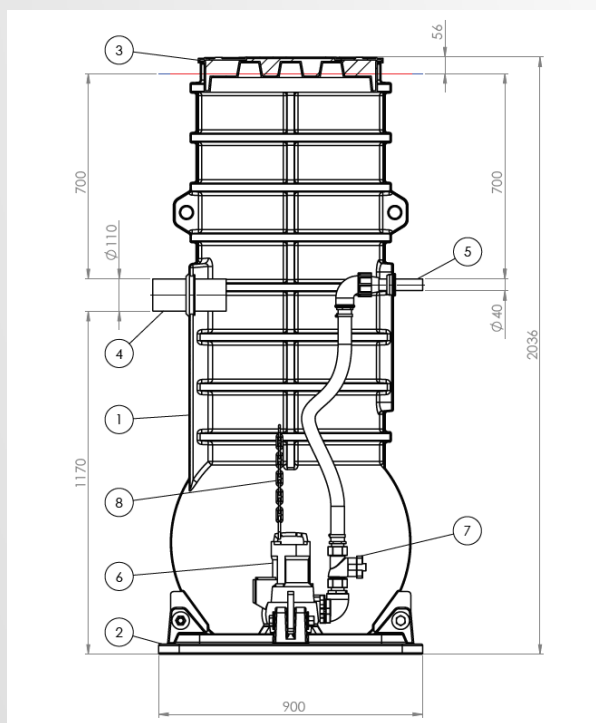
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Stage Weight Scale  
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# PREFABRICATED PUMPING STATIONS



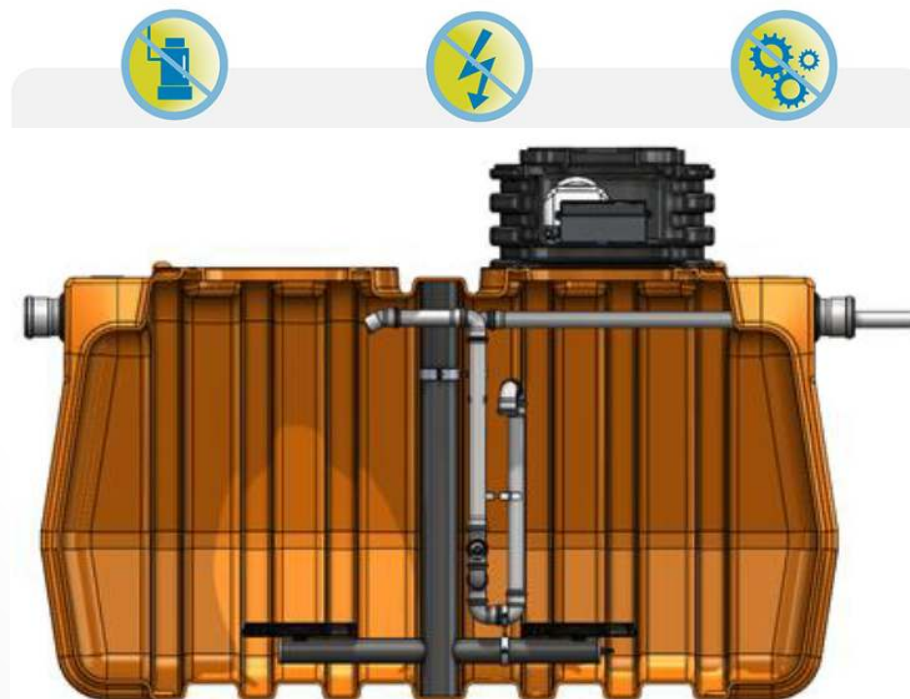
# PREFABRICATED PUMPING STATIONS

Economical Solution MPS



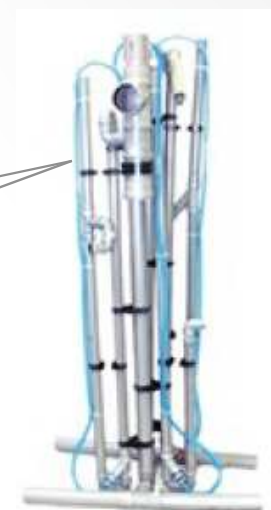
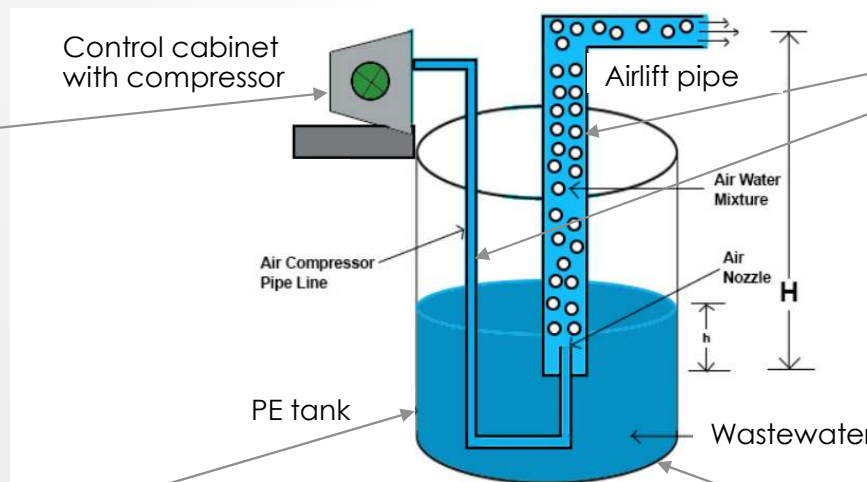
# WASTEWATER TREATMENT SYSTEM SBR

- **Advantages** of the Rotons **SBR** solution:
  - **Modular** design, **high quality** materials & **German** technology up to 60 PE;
  - High purification grade – **90...98%** of  $BSP_5$ , suspended solids, phosphorus & nitrogen removal;
  - Minimal electricity consumption (for example **0.4 kWh** using 6 PE unit);
  - No electrical pumps & no mechanical parts in the wastewater;
  - Sludge removal is necessary only once in a year period;
  - SBR system is designed as single chamber **compact** horizontal PE tank and is **CE certified**;
  - **Hydrostatic** measurement, **magnetic** valve control & **compressed air** supply for **airlift** unit



# WASTEWATER TREATMENT SYSTEM SBR

## Operating principle of single chamber SBR



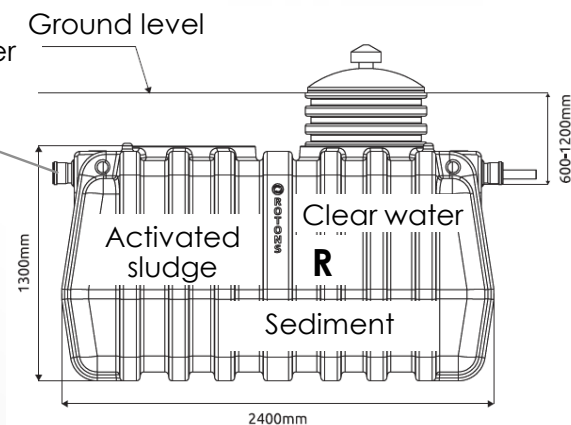
Different Symbols in the diagram:

**h** – distance between the nozzle tip and static water level.

**H** – distance between the nozzle tip and center point of the end of the delivery pipe where the water gets discharged.

**H – h** (difference of H and h) – Useful Liftnull

**R** – Reactor



# WASTEWATER TREATMENT SYSTEM RS BIO



## Advantages of the biological treatment system (economical version):

- High purification efficiency of biological equipment, wastewater is also purified from household chemicals
- The device works without sound and does not emit odours
- No chemical reagents are used
- Compact, does not take up much space
- Very little build-up of excess sludge
- Convenient and easy to service and install
- The device is convenient and simple to operate, works in any weather conditions
- The device does not harm nature, high ecological standards

Model	Compressor capacity, l/min	Dimensions (LxBxH), mm	Inlet/Outlet, mm	Population equivalent (PE)	System capacity, m <sup>3</sup> /day
RS BIO 6	60	2550x1220x1350	110	4-6	0,9

thank you

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