



P-TECHNIKS LTD

COMPANY PROFILE



- Construction Projects
- MEP & HVAC Solutions
- Wastewater Treatment
- Consultancy Services



OUR CORE VALUES

HUMILITY

We are open-minded, realizing that no matter your experience, you still need help. You invite feedback and are teachable seeking ways to improve yourself.

HONESTY

We hold yourself to a high moral and ethical standard to help provide others with a solid example, encouraging and inspiring them to be the best they can be.

COMPETENCE

We are visionary; you are always on the lookout for opportunities to learn new technologies therefore are not afraid of change.

CONSISTENCY

We have dedicated more time to quality than quantity, hence built a comfortable environment around you and increased productivity due to stability.

BACK GROUND

All we do in our life is always driven by the passion and desire to change our country for the better. We believe that affordable and reliable Technologies used in MEP equipment in our buildings and in Sanitation Sector in General are good solutions and the most suitable, and sustainable for the development of our country. Our company's Management 7 years of existence in this industry is a testimony of this belief that Rwandans can participate in the achievement of SDGs.

Our purpose from establishment has been to provide reliable solutions to existing challenges in MEP equipment used inside/outside buildings technically and financially while protecting our environment.

When our company started operating in 2016, the major purpose was to make our contribution in the Wastewater Treatment Sector that was devastated by non-operational or poor technologies, contribute to the use of more economical Sanitary systems inside the building that takes into account our environment and with more economical benefits in the country. Since then, we introduced on the market, in partnership with Biokube A/S, a Danish company specialized in wastewater Treatment Plants Technologies, a more reliable Submerged Aerated Technology (SAF) for Treatment of Wastewater with more competitive advantage including but not limited to affordability, reliability and low operation costs and more environmentally friendly.

In 2021 we realized that almost all building projects in the country were using high water and energy consuming sanitary Appliances including 2 buttons Toilets flushing units. We have introduced, in Partnership with EcoBeta, a Danish company specialized in this sector, our improved acoSMART Tank which serves

same purposes but with less water and energy. our development of products must be maximum water conservation, long lasting, hardly any maintenance, and easy to install. We all know that there are 4-6 small toilet flushes needed per person per day, and normally in big flush, in schools and day working places, it all shows that 90-95% of all toilet flushes are the small ones, therefore we were against the 2 button toilet valves, they often confuse the user, or the user press the wrong button, or press both at the same time, that results in loss of many liters of water. Furthermore the 2 button valves are very complicated with the many plastic parts they often break down, and the toilet leak.

Converting 1 flush toilet to a 100% dual flush toilet, the installation only takes a few minutes, never break down, and saves a lot of water.

P-TECHNIKS Ltd is now among others committed to provide wastewater management solutions based on the customized appropriate technologies sustainable for our country. This increase our confidence by gradually increasing our revenue turnover while improving competencies for confidence and ultimate success.

As owners of the Company have struggled a long path and acquired new experiences which has given us the essential wings to fly high in the business world.

We therefore come together to share our experience, knowledge and lead a collective approach to finding local solutions to local problems.

Eng. BIZIMANA Placide
The Founder & Managing Director

COMPANY REFERENCES AND TRACK RECORD

BUSINESS, ADMINISTRATION AND CONTACT INFORMATION

- i. Company Name: P-TECHNIKS Ltd
- ii. Company type: Private Limited Liability by shares
- iii. Company Registration Certificate Number: 106529405
- iv. Tax Identification Number: 106529405
- v. Tel: +250 783 038 978 / +250 783 082 100
- vi. E-mail: info@p-techniks.rw /bizimanap2@gmail.com
- viii. Cell: +250 783 038 978 / +250 783 082 100
- ix. Physical address: Rinini Cell, Gahanga Sector, Kicukiro district along KK 15 RD in Kigali City.

BACK GROUND

P-TECHNIKS Ltd is a private limited liability company registered by Rwanda Development Board (RDB) according to law No. 07/2009 of 27/04/2009 relating to companies with a registration code: 106529405. It was founded in 2016 with an objective of offering quality and affordable products and services in Rwanda related to sewerage and sanitation. Over the years, the company Owner has gained experience in the wastewater management and sanitary appliances, HVAC systems and all related MEP systems. We also worked with some experienced Construction companies.

We have identified ourselves with good quality work, proper and accurate management of time and scope.

P-TECHNIKS LTD also has a working relationship with other firms and individual consultants in fields relevant to each project undertaken, building a strong network consisting of engineers, project managers, surveyors, environmentalists, technicians, among others.

OUR CORE BUSINESS AREAS OF SPECIALIZATION ARE;

- Sewerage water collection, treatment and Supply sector
- Building services: Building Construction and civil engineering works and related services,
- Technical Services: Plumbing, heat and Air conditioning Installations,
- Technical Testing and Analysis and other professional and Scientific activities;
- Wastewater management solutions.

THE COMPANY'S UNIQUE STRENGTH

1. We put quality ahead of profit. We know that our clients love quality and we therefore comply with all quality requirements to satisfy our clients.
2. We strongly value corporate partnerships in order to achieve our organizational objectives. All our partnerships are successful and some are still ongoing
3. The shareholders possess the technical academic qualifications and hands-on field competencies in the company's chosen areas of business specialization and are very involved in the daily management of the company. To the owner it's not only a business but rather passion/hobbies - doing what they love and making a business sense out of it. The combination of all this gives our company a unique leverage in running projects.

COMPANY MANAGEMENT

P-TECHNIKS LTD Ltd is headed by its board but operations are managed by the Managing Director. For 12 years, the Founder & Chairman of the board worked with more companies and Industries, Private and Public institutions and has acquired more experience in hands-on capacity and Leadership and all have been successful due to his engineering background and his style of leadership.

The Founder & Chairman of the board is in charge of the strategic wing of management in raising funds for project success, public relations, motivation of the workforce and general leadership.

OUR CLEINTS:

1. Local Building Owners
2. Construction and Engineering Companies and Project Contractors
3. Consulting Firms
4. Rwanda Housing Authority (RHA)
5. Rwanda National Police
6. Rwanda Defense Force and Engineering Brigade
7. WASAC

CORPORATE PURPOSE

Our Vision

To provide reliable solutions while promoting great careers

Our Mission

To achieve Legacy on discipline, productivity and creativities

Values

- Honesty
- Humility
- Competence
- Consistence

A. SPECIFIC EXPERIENCE IN SEWAGE AND WASTEWATER TREATMENT PLANTS

Assignment 1: Design, Supply and installation of WWTP at New BURERA HQ Office

Assignment Name: Design, Supply and installation of WWTP at New BURERA HQ Office	Country: Rwanda
Location within Country: BURERA District, Northern Province	Professional Staff Provided by your consultant/entity (Profiles): BSc. Electrical Engineering; BSc. Mechanical Engineering BSc in Microbiology Bsc in Civil Engineering
Name of the procuring entity: ETS KAZOOZA JUSTIN & CIE LTD	No of staff: Professional staff is 4
Address: NORTHERN PROVINCE-Rwanda	No of Staff-Months; Duration of assignment: 3 months
Start Date (Month/Year) March 2023	Approx, Value of services (in current Rwf, US \$, EURO, etc.) 26,231,164 Rwf
Name of associated consultants, if any:	No of Months of Professional Staff Provided by associated Consultants: None
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: SUGIRA Emile: Project Manager BIZIMANA Placide: Contract Manager	
Narrative Description of Project: Supply and Install WWTP Equipment which is a Sewage Treatment Plant of 200 Users, at the NEW BURERA DISTRICT HQ compound	
The Scope of Services included: a) Supply, installation & Commissioning of WWTP with control panels in the systems and SMS alert b) Supply & Install of the materials (plumbing and electrical materials and equipment), c) Securing the Supplied and installed system physically to protect the installation and, d) Provide any paperwork that can be required by the Consultant in line with Waste Water Treatment Plant including but not limited to drawings and designs for architectural, electrical, and plumbing design for the system. e) Provision of Regular Lab Tests Reports of Treated water during the period of Two Years of Maintenance, f) Monitoring of the WWTP for a period of Two Years FREE of charge	

A. SPECIFIC EXPERIENCE IN SEWAGE AND WASTEWATER TREATMENT PLANTS

Assignment 2: Rehabilitation works and operationalization of WWTP at Karama IDP Model Village

Assignment Name: Rehabilitation works and operationalization of WWTP at Karama IDP Model Village	Country: Rwanda
Location within Country: NYARUGENGE District/City of Kigali	Professional Staff Provided by your consultant/entity (Profiles): BSc. Electrical Engineering; BSc. Mechanical Engineering BSc in Microbiology
Name of the procuring entity: STAR CONSTRUCTION & CONSULTANCY LTD	No of staff: Professional staff is 3
Address: Kigali-Rwanda	No of Staff-Months; Duration of assignment: 1 month
Start Date (Month/Year) November 2022	Approx. Value of services (in current Rwf, US \$, EURO, etc.) 13,000,000 Rwf The Supplier's Contract was around 180,000 USD
Name of associated consultants, if any:	No of Months of Professional Staff Provided by associated Consultants: None
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: SUGIRA Emile: Project Manager BIZIMANA Placide: Contract	
Narrative Description of Project: Assessment of the reasons that stopped the WWTP and Repair or Replacement of the damaged equipment,	
The existing Wastewater Treatment Plant at KARAMA IDP Model Village has been supplied and Installed by STAR CONSTRUCTION & CONSULTANCY Ltd in 2019. The System worked and operated safely for only Two years and stopped due to failure of proper Operation and Maintenance. P-TECHNIKS Staff have been called by the Supplier for Maintenance Works and Rehabilitation of the System. We carried a full assessment of the Status of the installed MEP equipment and repaired/Replaced the damaged units. P-TECHNIKS Ltd Staff participated in the Design, installation and commissioning of the system in the beginning.	

Assignment 3: Design, install and Provision of Training on the O&M of the WWTP at Kanombe Military Barracks.

Assignment Name: Design, install and Provision of Training on the O&M of the WWTP at Kanombe Military Barracks	Country: Rwanda
Location within Country: Kigali	Professional Staff Provided by your consultant/entity (Profiles): 1. Bsc. Mechanical Engineering 2. Bsc. Microbiology 3. Bsc. Electrical Engineering
Name of the procuring entity: AF-RIPRECAST/SCC LTD	No of staff: 3
Address: Kigali-Rwanda	No of Staff-Months; Duration of assignment: 3 DAYS
Start Date (Month/Year)	Approx, Value of services (in current Rwf, US \$, EURO, etc.) 22,000,000 Rwf The Supplier's Contract was 195,000 USD
Name of associated consultants, if any:	No of Months of Professional Staff Provided by associated Consultants: None
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: Eng. BIZIMANA Placide	
Narrative Description of Project: This is a military Barrack of around 2100 Users.	
Description of actual Services provided by your staff: The WWTP has been supplied and installed and commissioned by Star Construction & Consultancy Ltd in 2019 and has a capacity of treating around 170 m3 per day. P-TECHNIKS Ltd has been called for services provisions of Training on the O&M of the entire system based on our Skills on the installed Technology. P-TECHNIKS Ltd Staff participated in the installation and commissioning of the system under SCC Ltd. P-TECHNIKS Staff present during the execution of works, supervised and managed the Contract up to its completion.	

4: Participation in the Design, Supply, Installation and Commissioning of WWTP at BUGESERA STADIUM

Assignment Name: Design, Supply and Installation of WWTP at BUGESERA STADIUM		Country: Rwanda
Location within Country: Bugesera District		Professional Staff Provided by your consultant/entity (Profiles): 1. Project Manager: BSc. Mechanical Engineering (P-TECHNIKS Staff); 2. Testing Officer: BSc. Microbiology (P-TECHNIKS Staff);
Name of the procuring entity: RWANDA HOUSING AUTHORITY/CCECC LTD		No of staff: Professional staff is 2
Address: Eastern Province-Rwanda		No of Staff-Months; Duration of assignment: 5 months
Start Date (Month/Year) March 2018	Completion date (Month/Year) Expected to complete In 2019	Approx, Value of services (in current Rwf, US \$, EURO, etc.) P-TECHNIKS Staff were paid on monthly basis as per the Supplier. Contract amount was around 52,000 USD
Name of associated consultants, if any: We are working for the main Subcontractor for the services of supply: SCC LTD		No of Months of Professional Staff Provided by associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: Eng BIZIMANA Placide: Managing Director SUGIRA Emile: Quality officer		
Narrative Description of Project: The performed works were related to the Design, install and commission of the WWTP		
During the execution of the above works, P-TECHNIKS Ltd Staff and Management have been employed as Sub-Contractor Staff to carry the Works. They were in charge of all Designs and Design Reports, installation works and commissioning of the entire system. They have later been tasked to carry out the O&M of the utility. The WWTP was supplied by SCC Ltd.		

Assignment 5: Participation and carry the works of the Design, installation and Maintenance of WWTP at NATIONAL ARCHIVE BUILDING (MINUBUMWE HEAD

Assignment Name: Participation, carrying out the works of installation, commissioning of the WWTP at current MINUBUMWE HQ.		Country: Rwanda
Location within Country: Gasabo District/ City of Kigali		Professional Staff Provided by your consultant/entity (Profiles): 1. Project Manager: BSc. Mechanical Engineering MD at P-TECHNIKS) 2. Site Engineer: BSc. Civil Engineering 3. Quality officer: BSc. Microbiology (P-TECHNIKS Staff) 4. MEP engineer: BSc in Electrical Engineering (P-TECHNIKS Staff)
Name of the procuring entity: RWANDA HOUSING AUTHORITY/FAIR CONSTRUCTION		No of staff: Professional staff is 6
Address: Kigali-Rwanda		No of Staff-Months; Duration of assignment: 4 months
Start Date (Month/ Year) June 2019	Completion date (Month/Year) Expected to complete in June 2020	Approx, Value of services (in current Rwf, US \$, EURO, etc.) Our Staff were paid on Monthly basis or separate Contracts. Contract amount was around 55,000 USD
Name of associated consultants, if any: We are working as the Supplier's Staff		No of Months of Professional Staff Provided by associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: Eng BIZIMANA Placide: Contract Manager SUGIRA Emile: Quality officer		
Narrative Description of Project: Gantries, Surge arrestors, Current and Voltage transformers, drainage (concrete and Steel works with form works)		
As Staff in charge on behalf of the main Sub Contractor, we were in charge of providing all necessary designs to the Main Contractor, supervise and provide engineering support to the construction team, carry out all MEP installation works to the Biological Treatment Plants and carry out the commissioning works.		

Assignment 6: Design, supply, installation and commissioning of WWTP at Green Hills Academy Nursery School

Assignment 6: Design, supply, installation and commissioning of WWTP at Green Hills Academy Nursery School		Country: Rwanda
Location within Country: Nyarutarama, Gasabo District/City of Kigali		Professional Staff Provided by your Company: • Project Manager: BSc. Mechanical Engineering MD at P-TECHNIKS) • Site Engineer: BSc. Civil Engineering • Quality officer: BSc. Microbiology (P-TECHNIKS Staff) • MEP engineer: BSc in Electrical Engineering (P-TECHNIKS Staff)
Name of the procuring entity: HYBRID ENGINEERING Ltd Address: Kigali-Rwanda Address: Kigali-Rwanda		No of staff: Professional staff is 6
		No of Staff-Months; Duration of assignment: 3 months
Start Date (Month/Year) May 2023	Completion date (Month/Year) completed in August 2023	Approx, Value of services (in current Rwf, US \$, EURO, etc.) Contract amount was around 52,000 USD
Technology Used:	Sequencing Batch Reactor (SBR)	Capacity: 22.5 KLD
Name of associated consultants, if any: We are working as the Supplier's Staff		No of Months of Professional Staff Provided by associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed: Eng BIZIMANA Placide: Contract Manager SUGIRA Emile: Quality officer		
Narrative Description of Project:		
As Sub Contractor, we were in charge of providing all necessary designs to the Main Contractor, supervise and provide engineering support to the construction team, carry out all MEP installation works to the Biological Treatment Plants and carry out the commissioning works. The Project completed successfully.		

C. REFERENCE DATA AND DESCRIPTIONS OF INSTALLED BIOKUBE SUBMERGED AERATED FILTER TREATMENT PLANTS

NB: The below references of WWTPs have been supplied by other companies, P-TECHNIKS Staff participated in their Designs, installation and commissioning and Contract management or Supervision NOT as Main Sub-contractors

1. RWAMAGANA (RWANDA LAND MANAGEMENT & USE AUTHORITY BUILDING)



Reference Name	Office Building
Product Type	Biokube Mars 5000
Country	Rwanda
Application	Office Building
Client	Rwanda Land Management & Use Authority, Rwamagana District
Capacity [M ³ /day]	18
Year of Installation	2018
Status	Completed and Normally Functional
Description	Since its installation, the Biokube Mars 5000 has demonstrated the effectiveness of Submerged Aerated Filter Technology (SAF) over other existing Technologies in the Country. The above picture shows the Biokube Chief Technical Officer (CTO), Eng. Henrik J. Bebe, during his visit in Rwanda where He also visited the System in Rwamagana District. He was Excited by the Quality of Treated Water.

2. BUGESERA STADIUM



Reference Name	Bugesera Stadium at Bugesera District, western Province
Product Type	Biokube Mars 3000 two unit
Country	Rwanda
Application	Residential area
Client	CCECC LTD
Capacity [M ³ /day]	15
Year of Installation	2019
Status	Completed
Description	The System is composed of two Biokube Jupiter Units and Treated water passes through a Series of Sand Filters and UV System. Treated water is ready for Reuse in Gardening around the hostel or safe discharge.

3. KARAMA IDP MODEL VILLAGE at KIGALI



Reference Name	Karama IDP Model Village, Nyarugenge District, City of Kigali
Product Type	Biokube Bioreactor 100
Country	Rwanda
Application	Residential Area
Client	Loyal Trust Company and Reserve Force
Capacity [M ³ /day]	80-140
Year of Installation	2019
Status	Completed
Description	The System is installed at a Residential Estate. The Karama IDP Model Village is 1200 Families Village relocated by the Government from the High-Risk Zones. The System is composed of one Single Biokube Bioreactor 100 Unit and Treated water passes through a Series of Sand Filters and UV System. Treated water is ready for Reuse in Gardening around the Village or safe discharge.

4. RWANDA NATIONAL POLICE (SIF KIMIRONKO)



Reference Name	Special Intervention Force(SIF)
Location	Gasabo District, Kimironko Sector
Product Type	Biokube Bioreactor 75- 2 Units
Country	Rwanda
Application	Hostels and Kitchen
Client	Rwanda National Police (RNP)
Capacity [M ³ /day]	160
Year of Installation	2019
Status	Completed and Normally Functional
Description	The System is installed to Treat effluent from Police Hostels (Ladies and Mens) and Effluent from Kitchen. The System was designed to Treat mixed effluent (Black and Grey) water from the Buildings. The Specialty of the System is that it is equipped with a SCADA System that facilitate the remote control of the Unit. It will be the First System installed in Rwanda of that Type. Effluent from the System passes through a series of Sand Filters and UVSystem. Treated water is ready for reuse in Gardening in the compound or safe discharge. The above picture was taken during the Site visit with some of WASAC Ltd Staff in Sanitation together with Vision 2020 Estate community representatives.

5. KANOMBE MILITARY TRANSIT HOSTEL



Reference Name	Kanombe military Hostel, Kicukiro District, City of Kigali
Product Type	Biokube Jupiter 15 two units
Country	Rwanda
Application	Residential Area
Client	AFRIPRECAST
Capacity [M ³ /day]	180
Year of Installation	15/08/2020
Status	Completed
Description	The System is composed of two Biokube Jupiter Units and Treated water passes through a Series of Sand Filters and UV System. Treated water is ready for Reuse in Gardening around the hostel or safe discharge.

6. RWANDA NATIONAL ARCHIVES AT KACYIRU



Reference Name	Rwanda National Archive, Gasabo District
Product Type	Biokube Bioreactor 75
Country	Rwanda
Application	Office Building
Client	FAIR CONSTRUCTION
Capacity [M ³ /day]	40
Year of Installation	2021
Status	Completed
Description	The System is installed to Treat effluent from Office Building. The System was designed to Treat mixed effluent (Black and Grey) water from the Buildings. The Specialty of the System is that it is equipped with a SCADA System that facilitate the remote control of the Unit. Effluent from the System passes through a series of Sand Filters and UV System. Treated water is ready for safe discharge. The above picture was taken during the test and commissioning.

An introduction to ecoBETA

Since 1999 ecoBETA has been committed to sustainable development and the water conservation business by producing and selling unique water saving devices for bathrooms.

We believe that **it is cheaper and more sustainable to save water rather than generate and transport it**, especially given supply constraints. Many countries are addressing supply/demand issues and water shortages by investing in infrastructure – new water treatment plants, pipelines and desalination. These solutions require heavy investments with long project timelines.

Our solution to reduce water stress is low cost compared to the foregoing. ecoBETA preserves current supply capacities and hence, is more suitable for private and public financing perspective.

Performance, Products and Green Investment

With our products, a user can **easily save between 25 % and 50 % of water** (with documented and proven results throughout Europe, certain areas of the Middle East and Africa). Where the economics and pricing of water is sensitive, there is a clear case of financial savings. Should water pricing be a secondary concern, the sustainability argument

for water conservation still holds and engenders water savings. Overall, water being a social good, its conservation bodes well for society, economic growth and larger sustainable development goals at the macro, micro, institutional, corporate, sector and residential levels.

Our main product is a **unique flushing valve for dual-flush toilets, operated with a single button/lever**. With our solution, users cannot waste water, because for a big flush they are required to press and hold the button/lever for 2-3 seconds, while a small (half) flush only needs pressing and letting the button go. The effectiveness and efficiency of our solution comes from the simple fact that 80 % of all flushes are the small ones. Furthermore, the small flush can be adjusted in accordance with the age and state of sewage system in each building. As shown in the picture, our valves are designed to be consisted of minimum parts in order to prevent damages caused by limescale in water. Finally, we pay special attention to common issues with leakages and thus, our

valves are supplied with 4-mm thick silicone gaskets with long life-cycle effect compared to conventional 1-mm rubber gaskets of competitors.

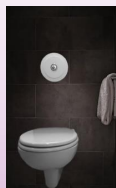
We also provide **a solution for existing single flush valves in the form of retrofit**, which can be easily installed onto the valve. This way, the existing valve is upgraded into a dual-flush on the same principle and benefits as the above-mentioned flushing valve. The above solutions have gained popularity and interest due to low initial cost and demonstrable water conservation. The price/performance ratio returns a rapid ROI and is therefore a smart green investment.

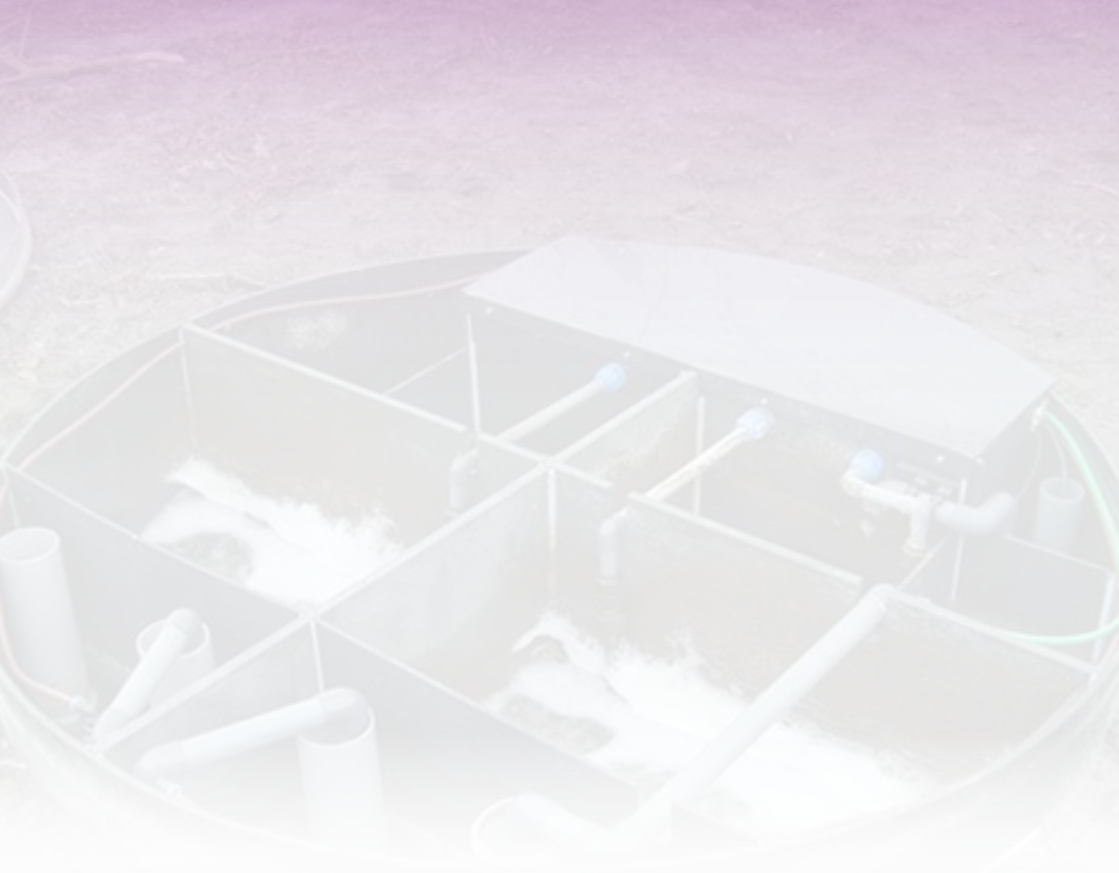
Focusing to provide a complete portfolio of water saving products, together with our partners, we offer a range of **floor- and wall-mounted toilets already equipped with dual-flush ONLY one button systems**.

Since our goal is to achieve the most remarkable water conservation our portfolio also consists of **water saving devices and equipment for sinks and showers**.

Our valves and retrofits meet US, UK and EU standards and hence are suitable for most toilet models commonly used around the world. With a particular focus on quality of materials, our products were recognised and approved by a thorough WRAS testing procedure at leading British laboratories. Finally, our sanitaryware suppliers are certified with the latest ISO and CE marks and comply with the strictest production and quality regulation/standards for manufacturers in the EU.

SAVE WATER





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