

PROPRIETARY TECHNOLOGIES

WATER



Technologies	Description
ACTIDAFF®	Integrated flotation – filtration system on granular bed to remove suspended solids, chlorophyll and turbidity in a single unit.
AINTAKE®	Predictive algorithm for the physicochemical characteristics of the inlet water for process optimization and control.
AIRVAL®	Advanced control systems by means of off-gas analysis for wastewater treatment processes.
ANAEROBIC SYSTEM	Anaerobic system with supported biomass in mainstream wastewater treatment.
AQUALIZE®	Calculation software for chemical processes in water treatment.
AUTOEDAR	Smart system of control, analysis and continuous learning for WWTP.
AUTOMLODOS	Automated clamshell system for grit chambers.
BIOCONTROL-CARR®	Smart control system in oxidation ditch for wastewater treatment.
BIOCONTROL-NUT®	Smart control system for nutrient removal in wastewater treatment.
BIOCONTROL-P®	Smart pressure control system in aeration manifolds for wastewater treatment.
BIOCONTROL-Q®	Smart flow control system in water pumping wells.
BIOFILPAS®	Submerged and aerated biological filter to reduce biological contamination and clarification of water.
BIONS®	Business Intelligence of Network Solutions: Cloud service platform to detect, analyze and manage events and incidents in water networks.
BORE®	Boron removal from seawater with RO membranes.
BRAINMEM®	Membrane scouring air flowrate control for membrane bioreactors to optimisise energy consumption in wastewater treatment process.
BRAINYSBR®	Control system algorithm for continuous operation of Sequential Batch Reactor (SBR), avoiding homogenization tanks.

Technologies

Description

BRIDEM®	Calcium hardness meter for water remineralization systems in reverse osmosis water treatment.
BRINETECH®	High conversion and low energy consumption seawater desalination (multi-stage) system.
Ca & Mg CONCENTRATED STREAM	Ca and Mg-concentrated stream for product water remineralisation.
CATMAN	Management of purchases by categories in tender and supplier management tools / platforms.
CHLORINE DOSING	System for the optimization of the chlorine dosing going in drinking water treatment plants.
COMPeX®	Oxygen compensation system for aerobic wastewater treatment.
DECLAMER®	High performance lamella clarifier equipment adaptable to the specific contamination to be eliminated.
DIFCLEAN®	Portable equipment for chemical cleaning of fine bubble diffusers for wastewater treatment with active sludge processes.
DIFFUSAIR®	Microbubbles nozzle generator in aeration systems of water treatment facilities.
DIGEST-UP®	Sludge pretreatment with Free Amonia (FA) to enhance anaerobic digestion in WWTPs.
DIRECT FILTRATION	Direct filtration of wastewater for reuse using forward osmosis.
DSFILTER®	Deep beds filtration velocity maximization for seawater pretreatment or drinking water and reuse treatment.
ELAB®	Automated measurement of the Sludge Volume Index (SVI).
ELBO®	High-efficiency cartridge filter for suspended solids retention in solutions that require a high degree of quality.
ELFA	Nitrogen removal via nitrite for centrate treatment of wastewater treatment plants.
ENERGY MIX SOFTWARE	Energy mix management software in WWTPs.
ENERGY OPTIMIZATION RACKS	Predictive model for enery optimization of reverse osmosis racks.

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ENERGY RECOVERY	Energy recovery from the salt gradient between different streams of the RO process.
ePRON®	Control system for biological nutrient removal in wastewater treatment.
ETAPACK	Compact drinking water treatment station for decentralised treatment.
FANCAM®	Optimisation of flotation systems with Deep Learning algorithms based on images recognition.
FILMACTIV®	Biofilm system on plastic support for wastewater treatment.
FILTRAB PACK	Modular and compact filtration solution for modular water treatment plants.
FOULDETECT®	Detection of fouling in membranes by current variation in desalination reverse osmosis membranes and ultra and nanofiltration membranes in water treatment plants.
FOULINDEX®	Detection of fouling in reverse osmosis membranes by frequency measurements.
INTEGROIL®	Integrated solution for complex waters reuse controlled by a decision support system (DSS).
INTERΔP®	Device for measuring head loss in reverse osmosis membrane containers for multi-stage desalination.
GESTALIVIO	Sustainable technological solution for improving the efficient management of spillways from wastewater treatment plants.
IONIC AIR DISSOLVED FLOTATION	Ionic air dissolved flotation to remove metal compounds in wastewater treatment and reuse.
LECTOR	Tool for the automatic detection of alerts and risks in bid specifications or contracts.
MAPA	Smart platform to optimize the Meter-to-Cash process in water supply services.
MARINE BIOFILTER	Marine biofilter for the removal of organic matter in seawater pretreatment.
MEMBRANE CLEANING	Predictive model for RO membrane cleaning cycles optimization.
MICROPLASTICS	Method for the detection and analysis of microplastics in WWTPs.

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NANOBAC®	Photo-reactor for advanced oxidation processes using UV lamps and a catalyst.
NIPARMOX®	Biological partial nitrification-Anammox process to treat sludge digestion returns in wastewater treatment.
NITROGEN REMOVAL	Smart control for nitrogen removal processes in WWTPs.
NUTRIENT REMOVAL	Efficient removal of nutrients in WWTPs.
ODOUR CONTROL	Odor control strategy in WWTPs through modeling.
OPTIAⁿMBR®	Anaerobic membrane bioreactor for wastewater treatment.
OPTIDe®	Intelligent dewatering control for wastewater treatment sludge, applying dry matter-based algorithms.
OPTIGEN®	Management system for active power generated by biogas generator sets.
PHOSPHOROUS ADSORPTION	Pre-treatment for the reduction of biofouling in membranes for reverse osmosis desalination.
PISA	Smart tool for the optimization of business processes in water supply.
PREDICTIVE ALGORITHM	Predictive algorithm for the health status of a supply water network in water supply services to populations.
PROBIOTIC MICROBIAL STRAINS	Probiotic microbial strains in wastewater treatment processes to improve biological wastewater treatment.
PROMETHANE®	Sludge pretreatment with Free Nitrous Acid (FNA) for the improvement of anaerobic digestion in WWTPs.
PUMPING ENERGY OPTIMIZATION	Energy optimization of pumping stations with multiple operating scenarios in desalination treatment plants.
REBO®	Continuous remineralisation technology for reverse osmosis desalinated water or for treatment of drinking water.
REFO®	Control system for combined forward osmosis-nanofiltration/reverse osmosis processes in water reuse.
RELEPUMP®	Pump control method and control system for water treatment plants.

Technologies	Description
REMNERALS®	Resin-Based remineralisation process.
REMINPREX®	Remineralisation system of permeated water from reverse osmosis with pressurized calcite beds.
REMINUF®	Remineralization process that allows generating product water with extremely low turbidity in a consistent manner.
REMOVAL NATURAL ORGANIC MATTER	Predictive models for the removal of natural organic matter.
RODIFLO®	Membrane permeate flow measurement device along the pressure tube by mass sensor for reverse osmosis desalination processes.
RO-SAVEFLUX®	High-efficiency seawater desalination and boron removal procedure.
RO-SCALECONTROL®	Evaluation of antiscalants for use in desalination.
SANDLIFT®	Air-lift pump for fluidized sand filters.
SCOPE®	Automatic calculation system for sludge production in wastewater treatment based on the sludge age required.
SCREEN®	Cloud-based energy efficiency remote control system for the optimization of water treatment facilities.
SEPAFLOC®	Reverse osmosis pretreatment using a submerged filtration system, integrating coagulation, flocculation and sedimentation processes with membrane filtration.
SeTOP®	Recirculation flow control of the secondary decanters of wastewater treatment by the variable volumetric load depending on the inlet flow to the reactor.
SLEVEL®	Device for controlling the level of sludge in lamella settlers.
SMARTEDAR	Intelligent operational management system in biological wastewater treatment.
STARNIT®	Partial nitrification process followed by Anammox biofiltration for the removal of nitrogen in mainstream of the wastewater treatment process, improving biogas production.
UFAC®	Microalgae removal by ultrafiltration and adsorbents for pretreatment in reverse osmosis desalination processes.
ULTRADAF®	Dissolved air flotation (DAF) for the removal of suspended solids in water treatment systems.

Technologies

Description

VETRA®

Treatment of water from (back)wash of RO membranes.

VIRTUAL SENSOR

Virtual sensor of the Langelier Saturation Index for reverse osmosis desalination treatment plants.



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