

ACTIVATED SLUDGE WASTEWATER TREATMENT PILOT, ANOXIA AT THE



Non contractual photo

SERVICE: POWER SUPPLY: 220V / 230V, SINGLE PHASE, 1000W RECOMMENDED PRODUCTS: ACTIVATED SLUDGE OR ENZYMES SUBSTRATES

DIMENSIONS: 2400 X 700 X 2000 MM

WEIGHT: 250 KG

REFERENCE: MP44

This pilot presents the process of elimination of carbon, nitrogen and phosphorus pollution by microbiological route. It works by contacting the water to be purified with a bacterial floc in the presence of O2 followed by a phase of separation of this floc. The oxidation basin is preceded by a pool of anoxia, which makes it possible to characterize and differentiate the stages of denitrification and nitrification.

Technical specifications:

- · A tray with lid and on wheels
- A pool of anoxia
- · A storage tank from the base
- · A ventilation basin with two levels of overflow with lid
- · A basin conical bottom of decantation
- A peristaltic pump for the supply of variable flow substrate on a sequencer and its flowmeter
- Two agitators (anoxic and aeration tanks) with electronic speed display and regulation
- · Aeration set with a ceramic air diffuser
- · An air compressor and its air flow meter
- A peristaltic pump for recycling the mother liquor
- Basic solution dosing pump controlled by pH measurement
- A dissolved oxygen measuring probe and its transmitter
- Threshold regulation of the aeration controlled by dissolved oxygen measurement
- A combined pH / ORP measuring probe with its transmitter
- A control cabinet grouping the M / A controls of the pump, compressor and agitator. The cabinet includes the oxygen sensor transmitter the pH / ORP transmitter
- The connections are made of PVC and the assembly is mounted on stainless steel frame, aluminum nuts.

OPTIONS:

Option 1: secondary settling tank. This option is recommended for using treated water in a drinking water system. Option 2: agitation system in the feed tank comprising: a circulator and a level probe. This option is recommended if the solution to be treated has a high rate of suspended matter. Option 3: sludge recycling. This option is recommended for a long-term process. Option 4: scraper in the cylindro-conical decanter. Option 5: threshold pH regulation system. Option 6: temperature control system comprising: an immersion heater and a regulator. Option 7: Data acquisition system including: RS485-ethernet gateway, Ethernet port, acquisition software (Autolink) and a laptop PC. Option 8: remote monitoring system (supplied with a PC, PLC and software). Manual valves are replaced by solenoid valves.