Containers

Container plants by ISOTECH can be utilized wherever it's needed for:

- Healthy drinking water
- Primary industrial water
- Industrial waste water treatment and ricircolation
- Sewage and affluent purification

The plant

- Is prefabricated in standard container
- Is easy to be set up and promptly operative
- Can be provided with its own electric power generator and many other accessory equipments

1st example: tannery waste water treatment

Working principle

Process waste waters are grated and sent to an organic substance partial oxidation reactor by an optimized chemical agent. After the treated waste waters are sent to the electroflotation system and to sand filters before the final discharging. The sludges coming from the flotation phase can be sent to the another container for sludge treatment and draining.

Performance

The optimized system working is based on the regular feeding of the homogenized waste waters. The plant can operate on tannery waste waters exclusive of the liming waters.

In this conditions, the efficiency of treatment is:

- COD about 65%
- BOD5 about 50%
- Chrome about 98%
- Suspended solids about 95%

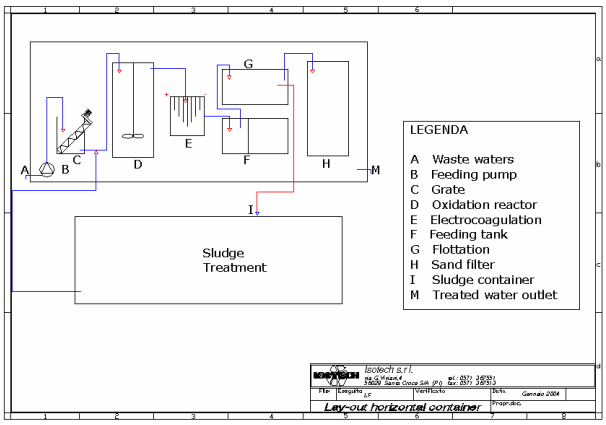
System components

- Feeding pump
- Johnson greating filter
- Oxidation reactor with stirrer
- Dissolved air flotation with partial pressurization
- Sand filter
- Electric power supply panel and system control PLC
- Power supply self-generator (optional)

Dati tecnico-funzionali

Water treatment capacity	10 m^3/h
Power used	10 kW
Dimensions	12000 x 2500 x 2500 mm

TW container



TW lay-out

2nd example: Sewage waste waters treatment

Working principle

Domestic waste waters are greated and sent to a biological oxidation reactor by air microbubbles. After the treated waste waters are sent to the lamellar sedimentation for the biological sludge separation and their recirculation in the oxidation basine.

Performance

In this conditions, the efficiency of treatment is:

- COD about 80%
- BOD5 about 90%
- Suspended solids about 90%

Extra biological sludge, that may remain, are regularly removed.
The final treated waters can be utilized for irrigation use.

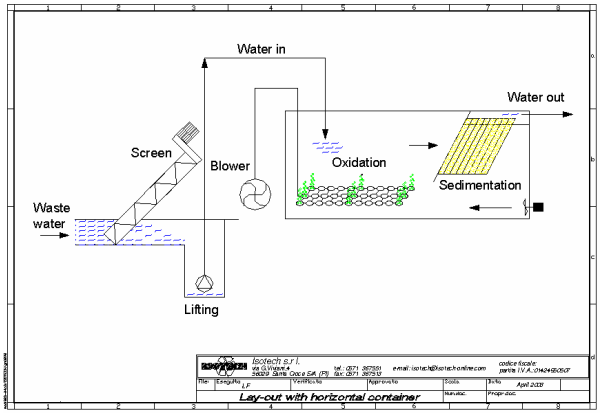
System components

- Feeding pump
- Johnson greating filter
- Oxidation reactor with stirrer
- Dissolved air flotation with partial pressurization
- Sand filter
- Electric power supply panel and system control PLC
- Power supply self-generator (optional)

Technical – functional data

Water treatment capacity	10 m^3/h
Power used	10 kW
Dimensions	12000 x 2500 x 2500 mm

SW container



SW Lay-out