References

Altech, a Belgian company with a social purpose, has over 20 years experience in water treatment facilities design.

Altech was rewarded many prizes in recent years.

Among these:

Gold Medal at the Brussels Salon of Inventions

Grand Prix of Belgium Future generations

Democratic Républic of Congo

Among our partners :

Projects

At present, nearly 100 Hydropur stations and dozens of Chloropur* units provide drinking water to thousands of people worldwide.

Africa: Burkina Faso, Democratic Republic of Congo, Burundi, Republic of Guinea, Rwanda, South Africa, Senegal, Ivory Coast

America: Haiti, Bolivia, Nicaragua, French Guiana

Asia: Azerbaïdjan, Bangladesh, Iraq, Vietnam

*Chloropur: chlorine production unit and proportional chlorination to disinfect distributed water on gravity-supply networks.

Work together

We handle your **project from A to Z**, in **close collaboration** with local partners and funding agencies. Thus, from, the pre-field study to the monitoring of the project after its completion. We are committed to putting our **skills** and knowledge at your service.

In addition, we ensure **the transfer of skills and technology** through training with local partners in order to empower them.

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Altech

HYDROPUR

Drinking water: source of life, factor of development

Autonomous drinking water treatment plant

http://www.altech-safs.be

10 PEOPLE DIE EACH MINUTE

Currently, WHO estimates that waterborne diseases are responsible for:

- 80 % of medical consultations in the world
- 20 million deaths each year in the world
- 50 % of child mortality in the world

The Hydropur purifies the water and preserves health.
This is a real factor for socio-economic development of rural communities.

Description station

- The installation of a station requests +/- 30m².
- No part is moving in the system, which is a guarantee of reliability.
- Hydropur is made of stainless steel to with stand the weather encountered in tropical climates as evidenced by stations installed since 1989.
- The modular design allows you to work at flows of 1 to 10 m³ / h.
- An upper reservoir made of galvanized steel feeds raw water, to the hydropur. A lower tank made of stainless steel equipped with 8 valves receives and stores the treated water.
- The processing techniques are conventional and include the steps of: coagulation, flocculation, chlorine disinfection, sand filtration and activated carbon filtration. The sand filter is cleaned automatically. All processing is done entirely by gravity and without external energy source.
- Ability to integrate a unit for autonomous production of disinfectant and photovoltaic pumping unit.
- Fast installation (1-2 days)

Haiti (2005)

Democratic Républic of Congo (2008)

Vietnam (1996)

Station water treatment Hydropur HS1

1. Top tank
The top tank is normally used for aeration, sedimentation of water, and if necessary, coagulation / flocculation, but also plays a buffer role.

2. Block of hydraulique regulation
The controller block allows adjusting the throughput in the system.

3. The water treatment vessel
Hydropur performs the primary treatment for drinking water: chlorination, sand filtration and activated carbon filtration.

4. The lower tank
This tank consists of 8 taps serves as a source of drinking water.

Main advantages

- Drinking water supply from 250 to 10,000 people.
- No energy is needed to treat water.
- Automatic filter cleaning.
- Reduced maintenance to a minimum.
- Robust Structure: stainless steel and galvanized steel.
- Low cost of production (<0.2 euro / m³).
- Can be easily moved.
- Kitchen salt as the only consumable for local chlorine production (sodium hypochlorite).

Applications

- Small rural or suburban communities.
- School centers.
- Hospitals, health centers, clinics.
- Emergency situations in case of natural disasters (floods, volcanic eruptions, earthquakes, ...).
- Refugee camps.
- Construction sites in remote areas.
- Seasonal or permanent workers in agricultural or mining areas
- ...