



# CESI

FILTRATION . STERILISATION . TRAITEMENT D'EAU

Water Quality Insurance

**KATADYN**  
France - Filtration de Sécurité  
DEPUIS 1972

## COOPERATION EQUIPEMENT SERVICE INTERNATIONAL

### Who is CESI, Cooperation Equipment Service International?

**CESI** was born from a **KATADYN** subsidiary, a **WEDECO** distributor, an **ITT Industries** member. **CESI** is a small size engineering company specialized in **Filtration and Water Treatment** for Industrials. Its mission is to offer you the best technical alternative, the most effective way to meet your Water Quality Requirements.

**CESI has been involved in this important issue for more than 20 year. Therefore CESI is legitimate to promote WATER QUALITY INSURANCE and several hundreds of industrials trusted us and were always 100 % satisfied.**

### Who is concerned?

**Any industry**, more specifically any large users with **critical water quality constraints**, will be the core of our business. Several fields are mainly concerned: Food Industries, Water, Beverages, Milk and dairy industries, Cosmetics, Pharmaceutical and so on.

### When can CESI help them?

At any time of their development, **CESI** will suggest you the best technical compromise to fulfil your needs or help you in improving your way of manufacturing to the highest standards, through solving any water quality difficulties.

- New production facilities, **water treatment integrated solution**.
- Any industry facing new water legislation constraint, **adjustments water treatment modifications** like Nitrate or Lead or Bromates removal equipment...
- Old facilities requiring **remodelling, up dating or optimizing** their existing treatment line,
- Any actual user of any treatment of any kind looking for **cost effective genuine or first price replacement part or component**.

### What can CESI bring them?

Water Treatment is as complex as your own business. The Water Treatment **Solution** depends on the water you are using, the **resource**. It is also determine by the water usage, the **application**. Depending upon the water resource chosen, city water, private well or surface water, the requirement will be different. Also the use of water will influence the type of treatment to implement.

- Is this water will be incorporated in the product, **process water**?
- Is the water intended to clean the production equipment or facilities, **washing water**?
- Will it be used for cooling tower or for central heating or for steam production, **utility waters**?
- Is the treated water aimed to the kitchen or to the water closet, **sanitary water**?

**Any kind of water deserve and demand a specific, well sized and well thought, system to meet only what, the use of it, will require.**

### What type of water are you looking for?

- **Clean water**, without apparent suspended matters or colours,
- **Softener water** where calcium (main water hardness component) has to be reduced or removed,
- **Drinking water** to supply the drinking water faucet or any tap where people could drink from.
- **Sterilized water** ensuring safe from any contaminant, bacteria, germ, viruses...
- **Reverse osmosis water** with fewer minerals than at the beginning are requested,
- **Any other waters** that must respect any mineral maximum tolerated value...

### Where can CESI act?

**CESI**, through its international network, can support you in the following regions: around Mediterranean Sea, in West and central Africa, in the Golf area, anywhere when the need occurs.

## CESI is just the tip of the iceberg.

With several partners specialized in their fields, **CESI** elaborate whatever is necessary to help you what you are good at, producing and marketing reliable and top quality product, without burdening you water consideration.

- **Advises - studies**, water analysis laboratories like the **CRECEP**,
- International or local **hydro geologists**,
- Water Treatment **specialists** in chemical correction, used or waste waters,
- **Manufacturers** with about fifty different suppliers and their technical support...

## OUR LATEST ACCOMPLISHMENTS

### FILTRATION



Filtration platform 25 down to 1 micron ( $\mu$ ), 80 m<sup>3</sup>/h



Ceramic KATADYN 0,2  $\mu$  filters



Filtration skid 35 m<sup>3</sup>/h,



Chlorination before storage



Filtration palette 15 m<sup>3</sup>/h

## CHEMICAL CORRECTION



Duplex water softener driven by a set of pneumatic valves and managed by a central electrical panel 50 m<sup>3</sup>/h



Nitrate removal units with selected ion exchanges resin, 25 and 55 m<sup>3</sup>/h



Iron and Manganese removal units 10 and 120 m<sup>3</sup>/h



Reverse Osmosis Units 15 and 2 x 40 m<sup>3</sup>/h

## OTHER WATER TREATMENT AUTOMATISM & CONTROL DEVICES



U. V. disinfection units, Process Water 35 m<sup>3</sup>/h and Used Water 1500 m<sup>3</sup>/d



Measure and control devices to manage a global process, ie Ultra Filtration station 80 m<sup>3</sup>/h



Ozone generator, 4 parameters on line measurement unit, Remineralizing station with 5 solutions



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