



**Clean the World™**

We contribute to a better environment –  
to more efficient and profitable companies.



CTW is a liquid that only contains environmentally friendly substances. It is mixed according to our secret recipe, which cannot be copied.



# CTW

CTW is a liquid that dissolves calcium, magnetite, rust, humus, sodium hydroxide, bacteria, salt and other deposits. It is biologically degradable and environmentally friendly. CTW is a low viscosity liquid without a strong odour, and with a pH of 1.5.

Pipework and heat exchangers, whose efficiency has over time been impaired by deposits, need to be cleansed to regain their full effect. This process is very simple thanks to CTW.

## **Dose/mixing rate**

Calculate how much the system holds. The dose to be added is 10 to 15% CTW in relation to the system's total volume. The recommended temperature for cleansing

is 40°C, which is the optimum temperature for CTW. The process does function up to 60° although with reduced effect at higher temperatures. Cleansing can take from a couple of hours up to a few days depending on the size of the installation and the thickness of the deposits. CTW dissolves deposits, which are then removed from the system by flushing. The installation is finally drained and carefully rinsed to prevent the re-adhesion of deposits to pipework and heat exchangers.


CTW can be used with all kinds of metal. It does not cause any damage to gaskets, seals or other materials; it only dissolves the contamination. The dissolution strength of the liquid still remaining during the cleansing process can be easily measured with litmus paper.



## ADVANTAGES OF CTW

- Quick, effective and easy to use.
- Dissolves waste particles into water molecules so that the system is clean after draining and flushing
- Does not damage metal, rubber, pumps, etc.
- Environmentally friendly. Can be emptied straight into the waste-water drain following cleansing.
- Rapid payback period.





“There is a need for CTW anywhere water is used as a heating or cooling medium.”

# Applications

CTW is useful for anyone with a heating or cooling system. There is a need for our product anywhere water is used as a heating/cooling medium.

Water, in combination with its minerals, calcium and other contamination, disperses and leaves a deposit on pipes, heat exchangers, etc. This contamination adheres and forms an insulating layer inside the installation.

This coat will thicken over time and reduce efficiency, which has to be compensated for by increasing the consumption of water, oil or energy to achieve the same effect. The energy wasted in this way equates to the annual production for several power stations! Cleansing with CTW can often half the energy costs of older installations that have never been cleansed. It has applications for industry, municipal authorities, private homes, condominium properties and hotels.

There are a large number of systems within these areas that need cleansing and where CTW could possibly be used to flush the system out properly instead of replacing/dismantling components and manual cleansing. This can improve operational efficiency and lower maintenance costs for businesses.

## **Industry**

Particularly in the manufacturing industry there are many uses for CTW. Among other things, cleaning of refrigeration units, plate heat exchangers, cooling towers, Cooling channels. In the motor industry it might be used for internal cooling, air compressors, injection molding machines, extruders and electric welding. Breweries and food producers may also benefit from CTW for example washing out tanks.

## **Municipal authorities**

Large buildings equipped with central heating systems, e.g. hospitals, schools, sports halls, district heating plants, etc. As the liquid is biologically degradable it can be simply disposed of into the waste-water drain without any problem.

## **Private homes and condominium associations**

Central heating is often installed in large apartment blocks. Some of these have their own boilers to regulate tap water heat. At condominium properties connected to a district heating system, heat is extracted from a heat exchanger within the association's premises.

## **Hotels**

Nearly always have a central heating system. Many also have a swimming pool, underfloor heating and large water units that get heat from the central heating system.

## **Shipping companies and oil platforms**

Among shipping companies CTW can be used for the cleaning of the refrigerator, complete piping and coolers for engines. CTW can prevent and clean water systems from bacteria. Because showers are the biggest source of infection for Legionella, CTW can advantageously be used in exposed locations, such as hospitals and oil platforms. CTW can also be used to remove rust and consequently replace less environmentally friendly methods such as, for example, blasting.

## Examples of application



### Homes

- Entire heating system
- Boilers
- Clean water
- Water heaters
- Underfloor heating systems
- Heating boilers and heat exchangers from district heating plant



### Shipping companies & oil platforms

- Heat exchangers
- Condensers
- Engine's cooling systems
- CHT systems
- Distillation units
- Boilers
- Jet blast deflectors (JBDs)
- Prevention of Legionnaires' disease
- Cleaning the cooling system
- Full piping
- Engine radiators



### Municipal authorities

- Heat exchangers
- Refrigerating coils at skating rinks
- Heating and cooling plant
- Water heaters
- Recirculating systems for pools
- Radiators
- Heat
- Full piping



### Hospitals

- Heating systems
- Water heaters
- Heating and cooling plant
- Prevention of Legionnaires' disease
- Dishwashers
- Full piping
- Heat



### Industry

- Heating plant
- Elements
- Condensers
- Heat exchangers
- Moulds
- Water-cooled rollers
- District heating system
- Ring cooling systems
- Process machinery
- Cooling towers
- Cleaning of Cooling plant
- Plate heat exchangers
- Cooling channels



### Hotels

- Heating systems
- Heat exchangers
- Water heaters



## Examples of work and services performed.

**Industries:** Cleaning the cooling equipment, plate heat exchangers, Cooling towers, cooling ducts etc.

**Municipal and private property:** Radiators, heat exchangers, complete piping, etc.

**Schools / Hospitals:** Clean the entire piping, heat exchangers, dishwashers etc.

**Shipping companies:** Cleaning the cooling equipment, complete piping, coolers for engines mm.

On the following page are examples of companies and countries that used CTW.





## Examples of companies and countries that used CTW

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- Uppsala University Hospital
  - Alcatel Cable
  - Cloetta
  - HSB
  - Jämtkraft
  - The Kaknäs tower
  - Korsnäs
  - LVF (Swedish Civil Aviation authority)
  - Marabou
  - Norsk Hydro
  - Papyrus
  - Riksbyggen
  - Trelleborg Rubber
  - Sandvik
  - National Bacteriological Laboratory (SBL)
  - Stenungsund's District heating
  - Stockholm Energy
  - City of Stockholm
  - Sveriges Radio och Television
  - Hospitals in other regions
  - Tarkett
  - Volvo Car corporation
  - Wallenius Shipping company

And more

- 
- Algeria
  - Dubai and other UAE
  - Finland
  - Greece
  - Iran
  - China
  - Kuwait
  - Lebanon
  - Libya
  - Norway
  - Syria
  - Saudi Arabia

And more

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