

SMART PROTECTION PLUS

Forward-looking washing combines economy and ecology

UNIQUE IDEAS. UNIQUE SOLUTIONS.



SMART PROTECTION PLUS

The economic and ecological plus



SMART PROTECTION PLUS – saving resources and environmentally friendly



SMART PROTECTION – for hygiene and cleanliness



BHS – made to measure hot water generation

> COMBINATION OF CHEMISTRY AND PLANT TECHNOLOGY

- Due to its unique combination of active substances SMART PROTECTION is a gentle washing procedure at 80 °C which leads quickly, safely, and gently to effective cleanliness.
- The washing procedure alone is convincing with its low afterwashing rates, specific application of chemicals to save resources, and with its low total process costs.
- In combination with the plant concept of **SMART PROTECTION PLUS** costs can be considerably lowered in the long term. From the ecological and economic point of view the general concept is profitable for every laundry.
- The plant concept **SMART PROTECTION PLUS** is an energy strategy consisting of a “state of the art” **mini-block heating station (BHS)** directly integrated in the process on the washing line.
- The BHS (block heating station) produces heat and electric power for the washing process and is applied locally and individually. Unconsumed electric power can be fed into the public electricity network.

> SMART PROTECTION SYSTEM

Gentle washing procedure at 80 °C for effective cleanliness:

- **quick:** within only 10 min at 80 °C
- **clean:** optimal dirt and stain removal/very high whiteness degree
- **gentle:** low fibre damaging through special additives
- **safe:** double safeguarding of disinfecting effect
- SMART PROTECTION has been registered for the RKI listing

> LOCAL HEAT PRODUCTION PLUS BY BHS (BLOCK HEATING STATION)

- Ideal for local application wherever thermal energy is needed.
- BHS are optimal units to supply thermal heat energy to heat up the washing baths on washing lines.
- The combustion engines of modern BHS are run with natural gas or fuel, they permanently supply thermal energy produced by combustion. The supplied heat energy of the engine is led directly to the main washing zone of the SMART PROTECTION PLUS washing line to heat up the washing baths.
- An ideal supplement to the wash processing at 80 °C.
- Simply produce heat and power with double profit.
- In addition to heat, electric power is produced consumed by oneself or directly fed into the public network. Tax relief included.
- Compact design of the apparatus to fit into a minimal space.



FORWARD-LOOKING TECHNOLOGY IN COMBINATION WITH A SYSTEM OF MATCHED PRODUCTS FOR AN ECONOMICALLY AND ECOLOGICALLY OUTSTANDING WASHING RESULT



CHT WASH SOLUTIONS

Tailor-made solutions for safe washing results



SMART PROTECTION PLUS – safely disinfected without peracetic acid



SMARTEC SYSTEM – optimal combination of all process parameters for effective washing



CHT Tübingen – centre of excellence of the CHT/BEZEMA group worldwide

> ADVANTAGES OF SMART PROTECTION PLUS

- Washing at 80 °C by high heat supply of the BHS
- Short cycle times and low costs for chemical products compensate higher energy costs
- Saving resources
- Safe stain removal
- Double safeguarding of disinfection
- High whiteness degree
- Without peracetic acid
- Low COD value
- Saving of chemical products
- Low and constant afterwashing rates
- Low total process costs
- Additional energy production
- Power supply to the National Grid
- Ideal conditions for heat recovery
- Respect of limit values for the waste water temperature
- Compact design of BHS, local installation directly on the washing line
- Short payback period
- Energy consulting by CHT/BEZEMA

> SMARTEC SYSTEM – SMART SOLUTIONS

- **SMARTEC CHEMISTRY.** All the components required for washing are applied individually in correct quantities and according to demand. In a flexible way additional doses can be supplied whenever required. At the same time unnecessary products can be omitted. Fibres and dyeings are treated with care, so that the textiles have a longer product life.
- **SMARTEC WATER SYSTEM.** Individual water saving by optimised procedures and optimal recycling systems reduce the fresh water consumption of your system. The processes are adjusted on site and if necessary made more effective by additional units.
- **SMARTEC ENERGY.** Resources can be applied more efficiently through adaptation of the energy systems to the local conditions. Energy management counselling and energy audit give a clear picture of the process on your site and provide the basis for further optimisation.

> CHT/BEZEMA GROUP

CHT/BEZEMA is a globally operating group of companies for specialty chemicals.

- Competent counselling, innovative products and an excellent customer-oriented service characterise us as partner of the industry. With its own production and distribution sites CHT/BEZEMA is represented worldwide by independent companies.
- Within the group Tübingen has a central position as company headquarters. Tübingen is the centre of excellence where innovative ideas are developed and implemented into products, applications and processes. There are laboratories for development, analytics and processing technology equipped with the latest technique which is the basis for the worldwide success of the group of companies.



INNOVATIVE AND COMPREHENSIVE SOLUTIONS FOR MODERN LAUNDRIES IN PRACTICE

Overview of our smart washing procedures:

SMART BPA 40 °C

SMART BPA 60 °C

SMART CONTROL 60 °C (without peracetic acid)

SMART CONTROL PLUS 60 °C (without peracetic acid)

SMART PROTECTION 80 °C (without peracetic acid)

SMART PROTECTION PLUS 80 °C (without peracetic acid – with BHS)



BEZEMA

UNIQUE IDEAS. UNIQUE SOLUTIONS.

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