deconta

Instruction manual

Water treatment boiler system

C 130 L

Manufacturer:	deconta GmbH Im Geer 20, D - 46419 Isselburg
Description	Water treatment system **C 130 L Type 546, 547**
Serial-No.:	.....

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1 Basic safety advice

The handling of the appliance technology is only allowed for instructed staff. The exact knowledge of this manual is an important condition for the staff before handling the machine.
Please keep the instruction manual close to hand and available for everybody.
As an operator, you are obliged by **deconta** to follow the instruction manual and to use this engineered technology equipment only in accordance with the regulations and its suitability! In the event of non-observance, **deconta** assumes no liability.

To ensure safety during operation of the unit, the following must be strictly observed:

- Do not use in potentially explosive areas.
- Necessary repairs and maintenance may only be performed by authorized staff.
- For all repair and maintenance work, the device is to be completely disconnected from power supply
- The safety and protective equipment is to be kept in perfect function.
- Attached safety guidelines are to be kept in a readable state and are to be followed.
- Generally applicable legal and other binding regulations for accident prevention and handling of hazardous substances must be observed.

To ensure safety, any changes on the machine are prohibited.

ATTENTION!
The Waste water filtration unit is not suitable for the use in condensed, corrosive, flammable and explosive compartment air. The ambient and medium temperature must be between +5 and +50°C.

We make explicit reference to the additional regional and national safety policies and regulations in the operation of the equipment technology.

2 Transport and storage

2.1 Delivery

If no other agreements have been made, the unit is packed safely and will be delivered ex work. Transport damages have to be immediately documented by the carrier or another supplier. Please also note the possible damages on the way bill.

2.2 Transport

The Transport is to be proceeded with care to avoid damages by improper handling or carelessness.
It is important to avoid exposure to violent shocks, otherwise the function and safety of the unit cannot be guaranteed. In winter and at risk of frost, the whole unit (Pump, filter housing and tank) needs to be emptied before transport.
Attention: Transport of unit (also relocation) only when empty.

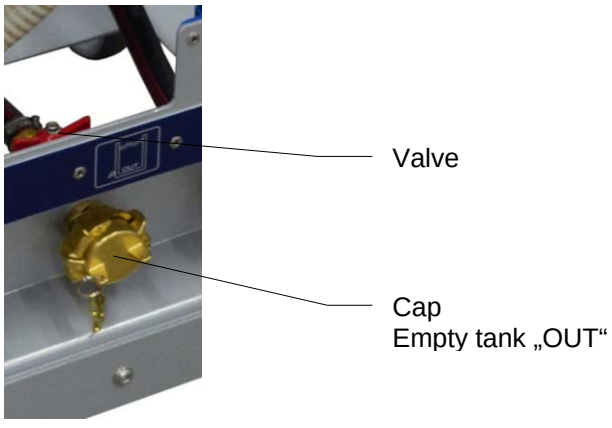
2.3 Storage

In order to avoid damages, the installation has to be kept in a dry area with no access for unauthorized persons.

Because of risk of frost in winter it is important to observe the following:

- Empty water hoses, filter housing, tank and pumps
- Place Water Management in a frost-protected area

Advice for the draining of the tank:
Beware: The Water temperature of the tank may be up to 80°C. To avoid scalding, we strongly recommend to allow the boiler to cool before emptying. To drain remove cap “empty tank“ and open valve.



3 Volume of delivery

If no other agreements have been made, the scope of delivery of the water management unit consists of:

- Water Management System
- Filter
- Instruction manual

Return delivery after termination of rental period

We have to insist on following conditions for the return delivery in order to protect our clients and in accordance with the rules for hazardous materials transportation:

- As listed above
- Well cleaned (ready for use)
- Without binder remains
- Without damages
- Without filter

4 Technical description

4.1 Intended use

During asbestos sanitation works within closed rooms, you have to exclude that the asbestos fibres leave the sanitation area uncontrolled and endanger the human health and the environment. For this reason, personnel must leave the sanitation area through a lock system and take a shower while leaving.

The deconta water treatment heats up the shower water and takes over the filtering of the contaminated sewage water.

4.2 Unit description

Water filling can be managed manually through a filling opening (with bucket) or automatically with a permanently connected clean hose. Inside the powder coated device is the water tank (Volume 130 Litres),with an immersion heater, 2 pumps (shower and sewage water pump) as well as a 3 stage waste water filtration unit are installed within the device The filling-in depending on the temperature (step by step), water temperature selected freely up to + 80° C.

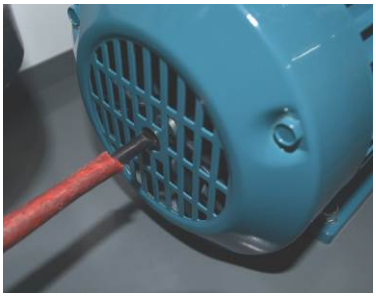
5 Technical data

Volume Service Water:	130 Litre
Tank filling:	automatic or manual via filling opening
Heat output:	3000 W
Filter stages:	3
Filter sizes:	10“
Power outlet:	230 V
Power consumption:	13 A
Water connections:	System Geka
Dimensions (L x W x H):	709 x 700 x 1115 mm
Weight:	89 kg

technical changes reserved

6 Initial operation

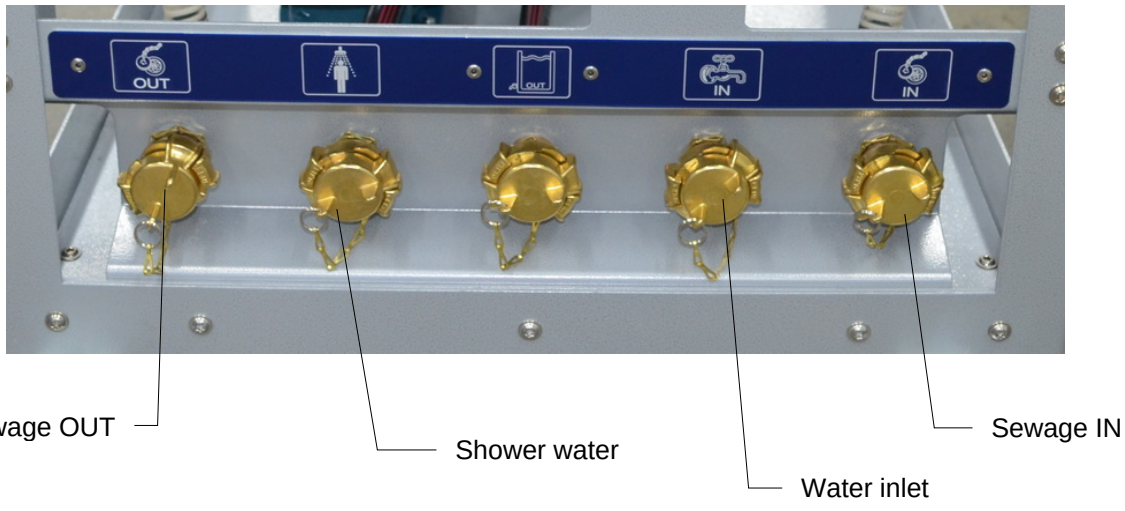
Before the initial operation of the waste water pump or after a long period of stagnation, check that the shaft rotates freely when turned by hand. To check this put a screwdriver in the notch of the shaft end on the fan side and move the shaft. The strong initial rotational resistance of the new pumps will come loose after running.



Safety instructions:

During works on the device always disconnect the plug!
Operate the device only with mains which are secured with fault current protection switch!
Never operate the device without water! In case of frost risk, empty the device by opening the stopcock!
Check outlet temperature before every shower!
CAUTION! Danger of scalding

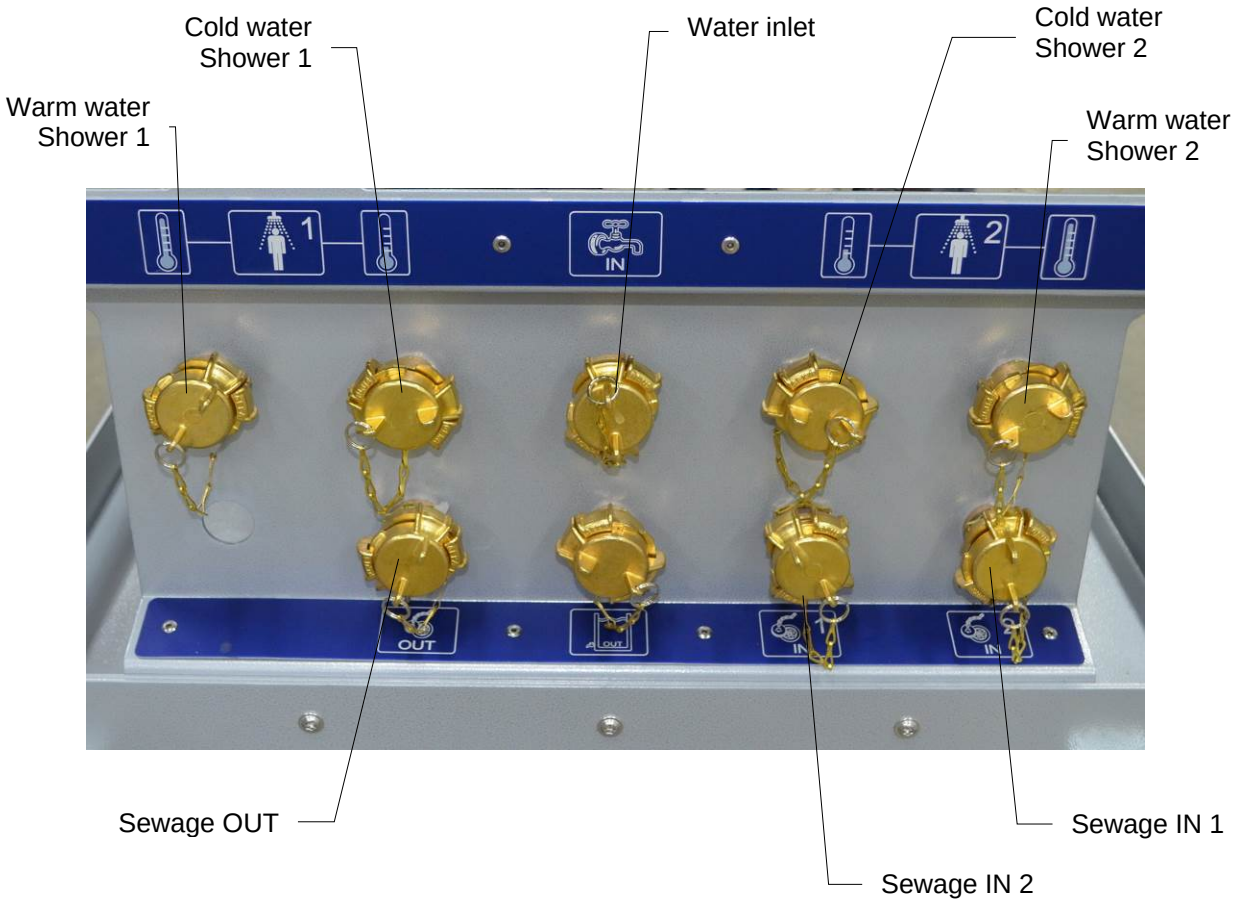
6.1 Version with one sewage pump



- Unplug unit
- Connect hoses:
    - Optionally connect „water inlet“ with pipeline system or fill tank via filling opening by hand
    - Connect „warm water shower water“ with shower roof
    - Connect „Sewage IN“ with shower floor
    - Connect „Sewage OUT“ with sewerage
- Fill sewage pump with water
- Fill filter housing of 220µ filter with water
- Tighten cap nut of filter housing hand-tight
- Connect to power
- Set temperature of thermostat (red pointer) to max. 40°C. The temperature can be checked on the temperature gauge (black pointer).
- Turn Switch automatic operation to „1“.
- The unit is now ready-to-operate

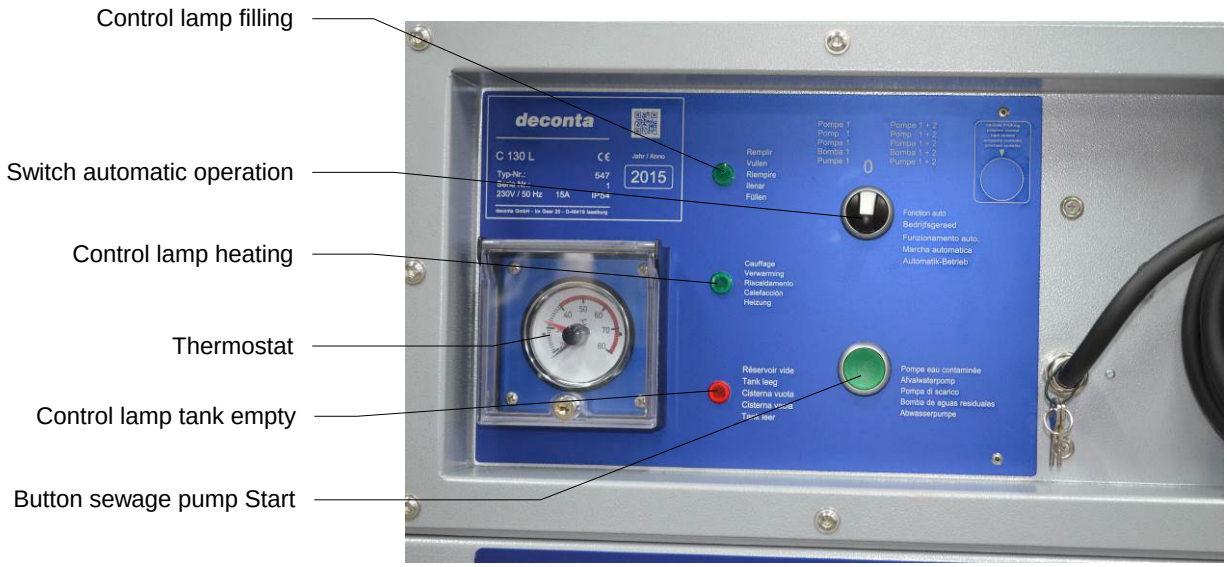
- In operation mode condensation water may emerge from „overflow“. Do not close overflow. If water drips, put a bucket underneath.

6.2 Version with 2nd sewage pump for 2nd shower



- Unplug
- Establish hose connections:
  - Optionally connect „water inlet“ with mains system or fill tank manually via filling
  - Connect „Warm water Shower 1“ with shower roof
  - Connect „Cold water shower 1“ with cold water connection of shower roof (if present)
  - Connect „Warm water Shower 2“ with shower roof
  - Connect „Cold water Shower 2“ with cold water connection of shower roof (if present)
  - Connect „Sewage IN 1“ with shower floor
  - Connect „Sewage IN 2“ with shower floor
  - Connect „Sewage OUT 1“ with sewerage
    - Connect „Sewage OUT 2“ with sewerage
- Fill waste water pump with water
- Fill Filter housing of 220µ Filter with water
- Fasten cap nut of filter housing hand tight
- Connect to power

- Set temperature of thermostat (red pointer) to max. 40°C. The temperature can be controlled on the temperature gauge (black pointer).
- Switch automatic operation to „Pump 1“ (if only one sewage pump is in use) or „Pump 1 + 2“ (if both pumps are in use).
- the unit is now ready-to-operate



- In operating status condensation water may leak out of “overflow“. Please do not close overlow. If it drips, put a bucket underneath.

7 Maintenance and care

7.1 Daily maintenance

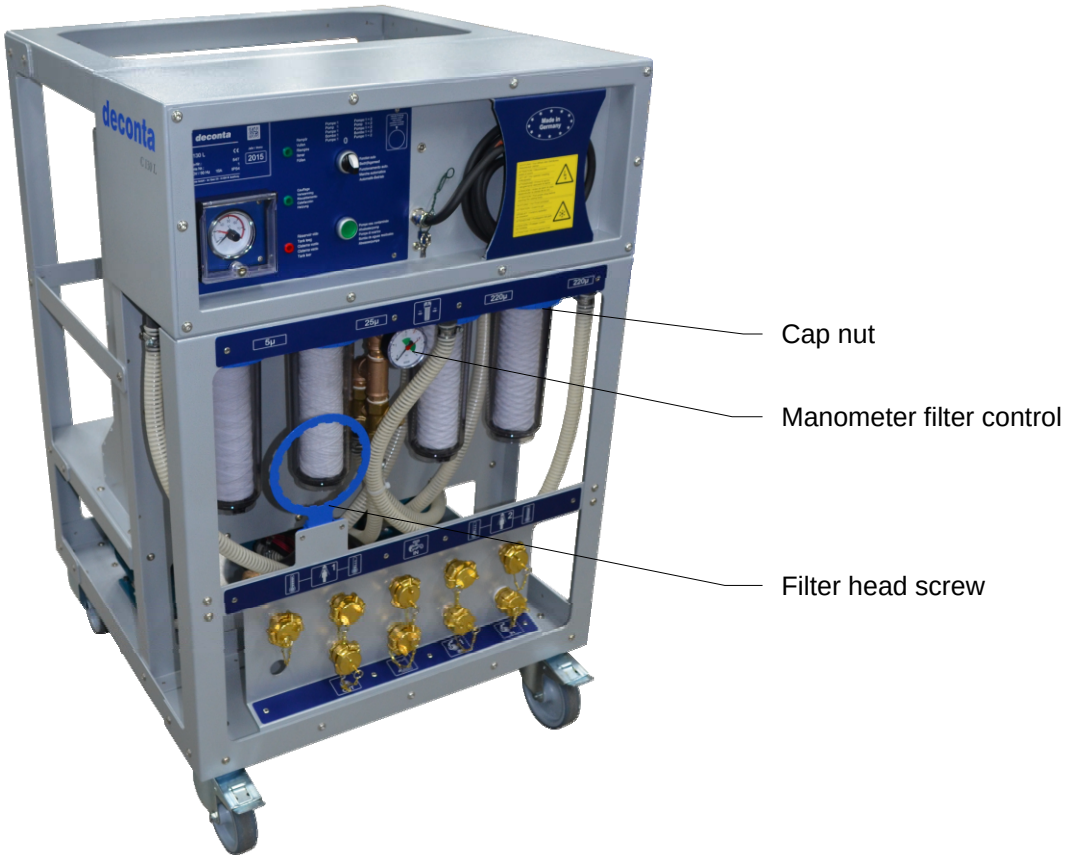
- Check hoses for free flow
- Visual check of 220µ-Pre filter for dirt
- Control of fine filter via manometer

7.2 Filter change

The Manometer controls the fine filter. We recommend a filter change at approx. 3bar.

Attention:

- Change Filter only when device is switched off
- Demount dirty filters only in wet state to avoid contamination
- Use approved filters only
- Do not use damaged filter cartridges



Filter change:

- Loosen cap nut with help of filter head screw
- Remove filter and dispose of it
- Insert new filter cartridges
- Pay attention to correct fit and cleanliness of the seal ring
- Tighten cap nut **by hand**

The suction hoses, pumps, filter housings and filter are contaminated after the first use. Repairs and maintenance must only be executed under the observance of all relevant safety measures. All the filters mentioned have to be disposed of according to the respective legal terms.

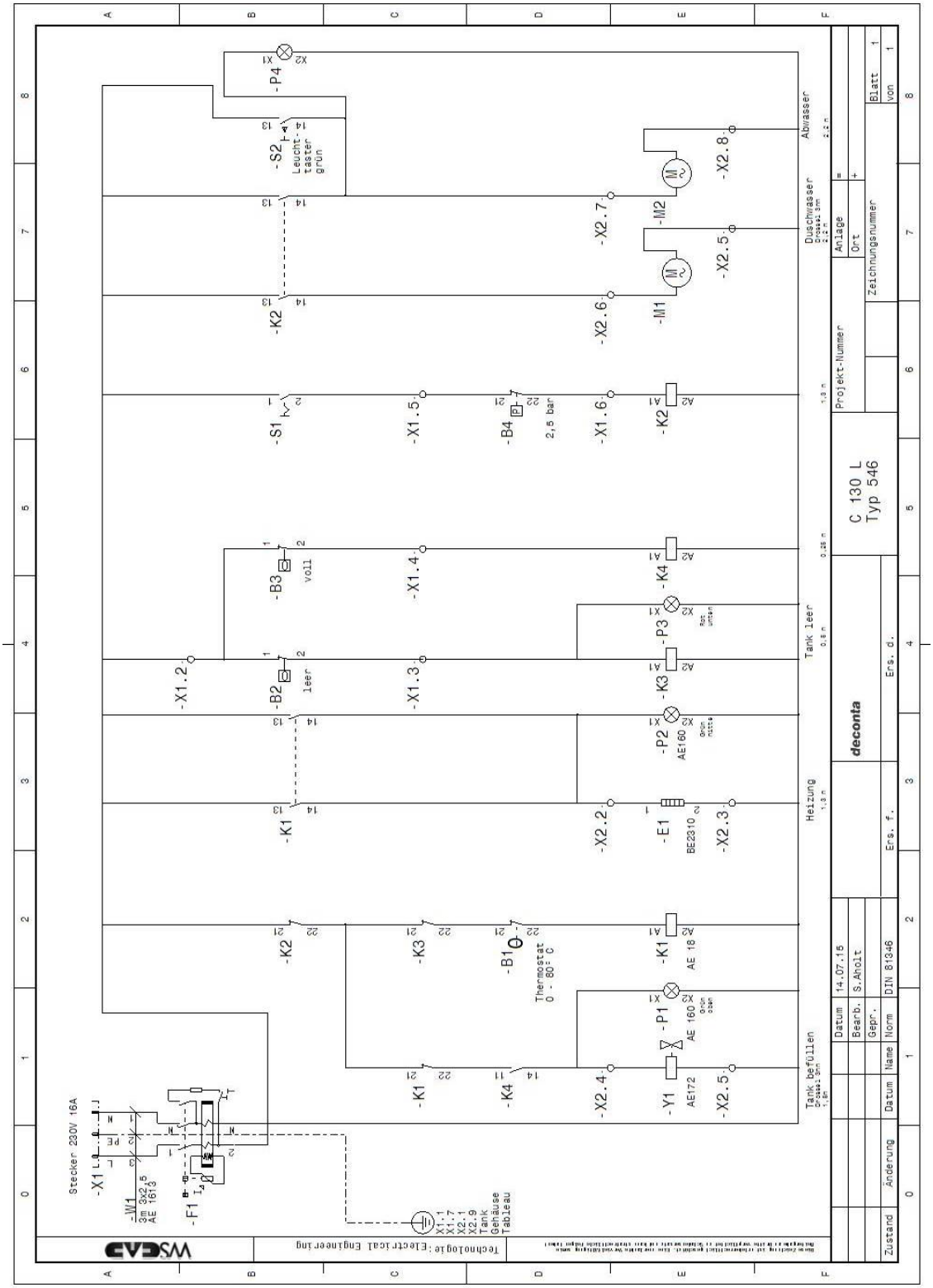
7.3 Reduction of legionella growth

To avoid excessive legionella growth, we recommend to heat the water in the tank to a temperature around >60°C once or twice a week.
To clean the hoses and the shower, the heated water should also be removed from the shower for about 3 minutes.
Caution risk of scalding!

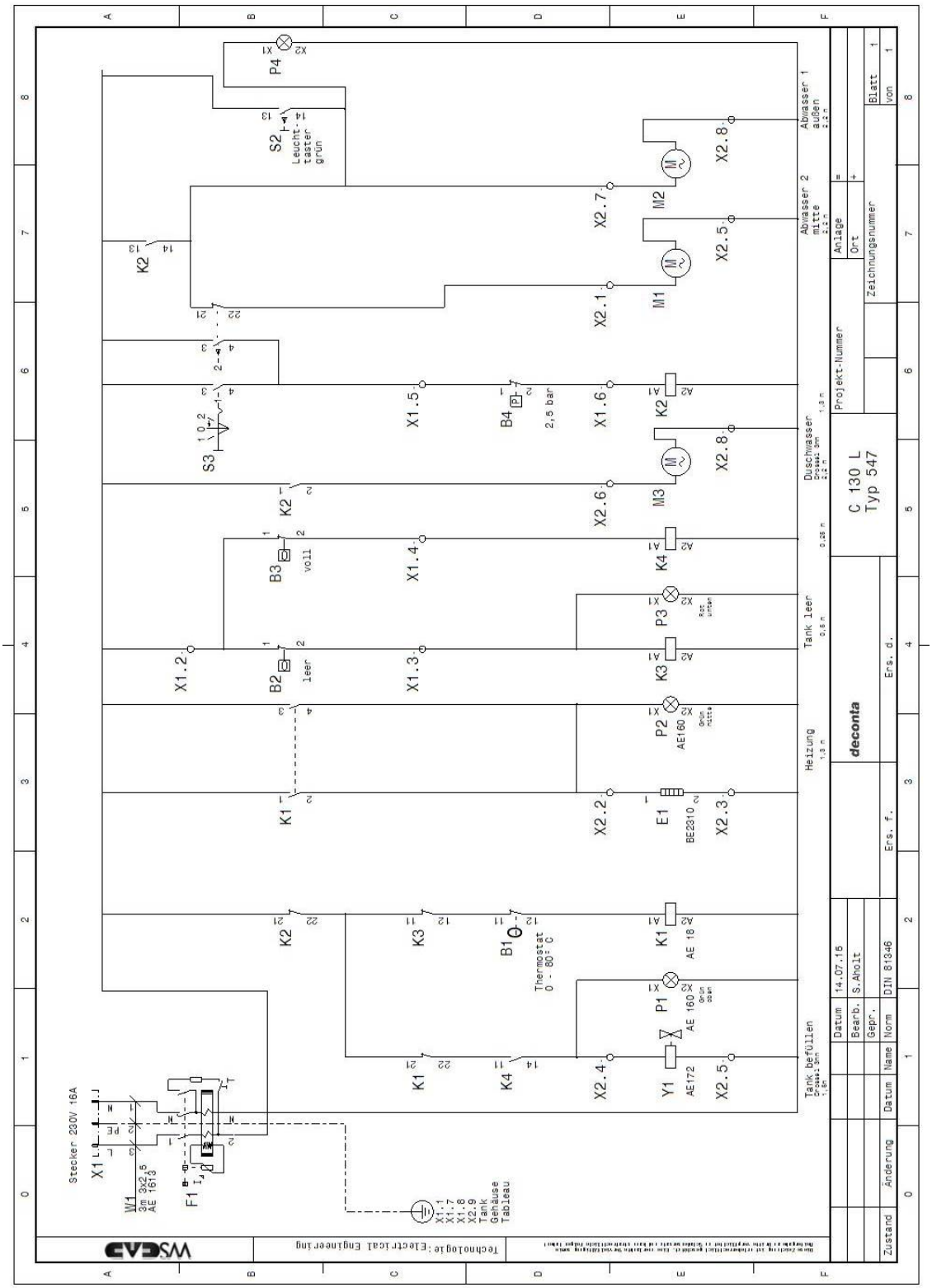
Alternatively, an approved disinfectants can also be used.

8 Circuit diagram

8.1 Version with one sewage pump



8.2 Version with two sewage pumps



9 Declaration of conformity

EU- Declaration of conformity

deconta GmbH
Im Geer 20
D-46419 Isselburg

Product: Water management C 130 L

Type: 546, 547

The design of the unit complies with the following directives:

EU- Machine directive 2006/42/EG
EU- Low voltage directive 2006/95/EG

Applied harmonised standards:

EN 292, EN 60335-1

Applied national standards:

DIN VDE 0701, DIN VDE 0702

W.Weßling

Isselburg, 24.06.2015