CLEANING & DISINFECTION INTERIM GUIDE JUNE 2017 - MEDOS DELTASTREAM

This Quick Start Guide is for the following units:

- ME DPHC 0001 deltastream HC, 230V
- ME DPHC 0002 deltastream HC, 115V
- 4000122 NovaTherm, 230V
- 4000127 NovaTherm, 115V
- 5000100 i-cor TCU, 230V
- 5000101 i-cor TCU, 115V

Safety instructions

**ATTENTION** Read the safety instructions below before starting to clean the unit:

- Disconnect the mains plug before starting to clean and disinfect the unit.
- Make sure no liquid enters the unit (e.g. through the ventilation slots).
- Do not switch the unit on again until it is completely dry.
- Only use disinfectants based on aldehydes, ammonium components or alcohols that do not attack ABS plastics, such as PVC and PU, for all surfaces and components.
- Avoid using disinfectants based on phenol derivatives as these will reduce the life of plastics.

**CAUTION** A gas exchanger cannot be connected to the unit while the water is being changed.

Follow the instructions below to ensure hygienic use.

We recommend changing the water as described below

- every 24 hours, interrupting use of the unit on the patient.

We recommend disinfection of the water circuit as described below

- Before each change of patient
- When the unit is used for the first time
- During storage or extended non-use
- Every 12 months as part of servicing.

We also recommend disinfecting every two weeks in order to kill off any water-borne pathogens such as non-tuberculosis mycobacteria.

We recommend testing the water quality once a month.

Pay attention to hand hygiene and protective barriers (e.g. single-use gloves). Please ensure that you and your employees are aware of mycobacteria and their effects.

The tubing set must be replaced once a year.

**Surface cleaning and disinfection**

**Surface**

Disinfect the surface every time the water is changed. Where possible, use warm water (max. 50 °C) with a mild, commercially available dishwasher detergent added. Wipe the unit with a damp cloth. Wipe again with plain water and rub dry. To disinfect the surface of the unit, we recommend a wipe or surface disinfectant from the RKI or VAH list. Follow the manufacturer’s instructions when using a disinfectant. Do not switch the unit on again until the disinfectant has evaporated fully.

**Ventilation slots**

Check the ventilation slots on the sides of the unit for dirt regularly, but at least every six months. Remove external dirt as much as possible. Dust deposits in the unit will reduce the efficiency of the system. Have a service technician (Xenios/Medos) remove any dirt inside the unit. Do not open the unit yourself.
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Changing water and disinfecting the water circuit

Changing the water

Draining the unit:
• Disconnect the unit from the mains.
• Place a container (bucket, bowl, etc.) under the unit or place the unit somewhere it can drain (e.g. basin).
• Unscrew the cap on the water filler, e.g. with a coin.
• Tip the unit back and let the water drain out of the filler or empty the contents of the tank through the connected tubing.

Filling the unit:
• Add approx. 1 liter of distilled water to the water tank of the unit, e.g. with a funnel.
• We recommend using a sieve to prevent foreign material entering the water circuit.
• Watch the water level indicator during filling. The water level should be just under the MAX mark after filling.
• Screw the cap on the water filler tightly until it is sealed.

Disinfecting the water circuit
• Drain the system as described in “Changing the water”.
• Add 1 liter of either Sanosil S010 (which equates to 5%, or 5g/100g H₂O₂ concentrate) or Sanosil S015 (which equates to 7.5%, or 7.5g/100g H₂O₂ concentrate).
• Fill the unit to the maximum fill level (see “Filling the unit”) with the 5% or 7.5% H₂O₂.
• Leave the tank lid open during cleaning to prevent overpressure.
• Close off the bypass hose by connecting the ends of the water hoses together with an adapter piece.
• Switch on the unit at 25 °C and let it run for 15 minutes. Then increase the temperature to 39 °C for another 15 minutes.
• Terminate this process after a total of 30 minutes and let the water drain out of the tank as described.
• To avoid any disinfectant residue, we recommend filling the tank with distilled water, running the unit for 5 minutes, then draining the water from the tank again. Repeat this process several times with fresh distilled water.
• The tank must be rinsed until the “Sanosil and pH test” litmus paper no longer indicates disinfectant residue.
• Now refill the unit with distilled water (see “Filling the unit”). The water tank has a maximum capacity of around 1 liter.

Descaling/disinfection

Mains water can be used for operation of the unit. The service life of unit parts in contact with water will be reduced depending on the quality and hardness of the water. However, during disinfection flocculation of the silver content may occur, therefore we recommend using demineralized/distilled water for mixing with Sanosil.