



dialox™

dialox™ is a specially developed, highly effective disinfectant and descaling agent for hemodialysis machines and water treatment units. dialox™ is based on active oxygen.

Poz 57.1 Tirpalas Gambro tipo hemodializés aparatams

Our Plus

- A broad microbiological spectrum
- Disinfection and decalcification in one step
- Ready to use
- Short contact time
- More than 20 years of experience in dialysis centres

Application areas

Unique disinfectant and descaler for the hygiene of hydraulic circuits of dialysis machines and water treatment systems in dialysis centres.

Application tips

- Compatible with dialysis machines
- Compatible with water treatment equipment
- Prevents the formation of biofilms on surfaces of hydraulic circuits

Instructions for use

dialox™ is used in the chemical disinfection program of hemodialysis machines and water treatment units for simultaneous disinfection and decalcification. dialox™ is ready to use. No activation step is needed. The proportions are automatically calculated and diluted by the machines. Please follow the recommendations of the manufacturer of the dialysis equipment, e.g. 1/25 or 1/35 at 20°C or 37°C).

The rinse process has to be controlled in accordance with the operating instructions of the respective dialysis machine/ water treatment unit manufacturer by means of peroxide or peracetic acid test strips. The instructions for use of the test strips must be followed. Concentration of dialox™ in the circuits could be detected with conductivity property (depending of equipment of dialysis machine - see instructions of use of machine).

Microbiological efficacy

Efficacy	Concentration	Contact time
bactericidal EN14561	1 % (10 ml/l) 20 °C	10 min.
mycobactericidal EN14348	10 % (100 ml/l) 20 °C	15 min.
mycobactericidal EN14563	2.85 % (28.5 ml/l) 20 °C	10 min.
levurocidal EN14562	1 % (10 ml/l) 20 °C	10 min.
fungicidal EN14562	3 % (30 ml/l) 20 °C	10 min.
virucidal EN14476	2 % (20 ml/l) 37 °C	30 min.

CE 0297



Product data

Composition:

100g of dialox™ contain the following active ingredients: 0,4g peracetic acid [CAS N° 79-21-0] and 3,6g hydrogen peroxide [CAS N° 7722-84-1] and 6,9g of acetic acid [CAS N° 64-19-7].

Chemical-physical data

Color	colourless
Density	1,03 g/cm ³ / 20 °C
Flash point	Not applicable
Form	liquid
pH	ca. 1,1 / 20 °C / concentrate
Viscosity, dynamic	not determined

Special advice

Recommended storage temperature: 5-30°C. Provide sufficient air exchange and/or exhaust in work rooms. Handle and open container with care. Never return unused material to storage receptacle. Keep away from heat and direct sunlight. Store in a cool place. Do not keep container sealed. Store in up-right position only.

Compatibility with materials

dialox™ has a good material compatibility with stainless steel, PTFE, PVDF, PEHD, PP.

Interactions

Mixing of dialox™ with other products should be avoided, particularly with aldehyds or derivates of halogens (e.g. sodium hypochlorite and others).

Information for order

Item	Delivery form	Item no.
dialox 10 l KA	1/Carton	on request
dialox (4 x 5 l KA)	1/Canister	on request

These products are not available in every country. For more information please contact our local subsidiary or distributor.

Accessories

Accessories	Item no.
Can key for 5 + 10 l	135810

Environmental information

schülke manufactures products economically and with advanced, safe and environmentally friendly production processes while at the same time maintaining out high quality standards.

57.1 poz.



Artis

Operatoriaus vadovas

Bendrojo naudojimo vadovas, 1 knyga (iš 2)

<i>Vidinis kodas</i>		9033238116
<i>versija</i>		/
<i>prog. versija</i>		8.60
<i>data</i>		2016-07

Užsakymo numeris:

Visas vadovas (1 ir 2 knygos): SP01356

Tik 2 knyga: SP01357



13.2.1 Cheminės dezinfekcijos priemonės

Dializės sistemoje Artis rekomenduojama naudoti toliau išvardytas chemines dezinfekcijos priemones:

<i>Peroksiacto rūgšties pagrindu paruošti tirpalai</i>	
Aktyvios sudedamosios dalys:	Peroksiacto rūgštis ir hidrogeno peroksidas.
Firminiai pavadinimai:	Dialox

<i>Natrio hipochlorito pagrindu paruošti tirpalai</i>	
Aktyvios sudedamosios dalys:	Natrio hipochloritas.
Firminiai pavadinimai:	„Bleach“, „Amuchina“

ĮSPĖJIMAS

- Prieš naudodamas dezinfekcinį tirpalą, naudotojas turi imtis reikiamų atsargumo priemonių.
- Būtina laikytis gamintojo instrukcijų ir rekomendacijų.
- Būtina laikytis vietinių teisės aktų, taikomų įvairių cheminių medžiagų naudojimui.

ĮSPĖJIMAS

Kad nesugadintumėte įrenginio, **NEPALIKITE** dezinfekcinio tirpalo įrenginyje ilgiau, nei nurodyta toliau:

- 20 min., jei naudojami dezinfekcinio tirpalo koncentracijos (maks. 0,2 % koncentracija) natrio hipochlorito pagrindu paruošti tirpalai
- 20 min., jei naudojami dezinfekcinio tirpalo koncentracijos (maks. 2 % koncentracija) citrinų rūgšties pagrindu paruošti tirpalai
- 20 min., jei naudojami dezinfekcinio tirpalo koncentracijos (maks. 0,5 % koncentracija) natrio karbonato pagrindu paruošti tirpalai
- 72 val., jei naudojami dezinfekcinio tirpalo koncentracijos (maks. 0,10 % koncentracija) peroksiacto rūgšties pagrindu paruošti tirpalai

AK 200 S

Disinfection

57.2 poz.

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AK 200 S Disinfection

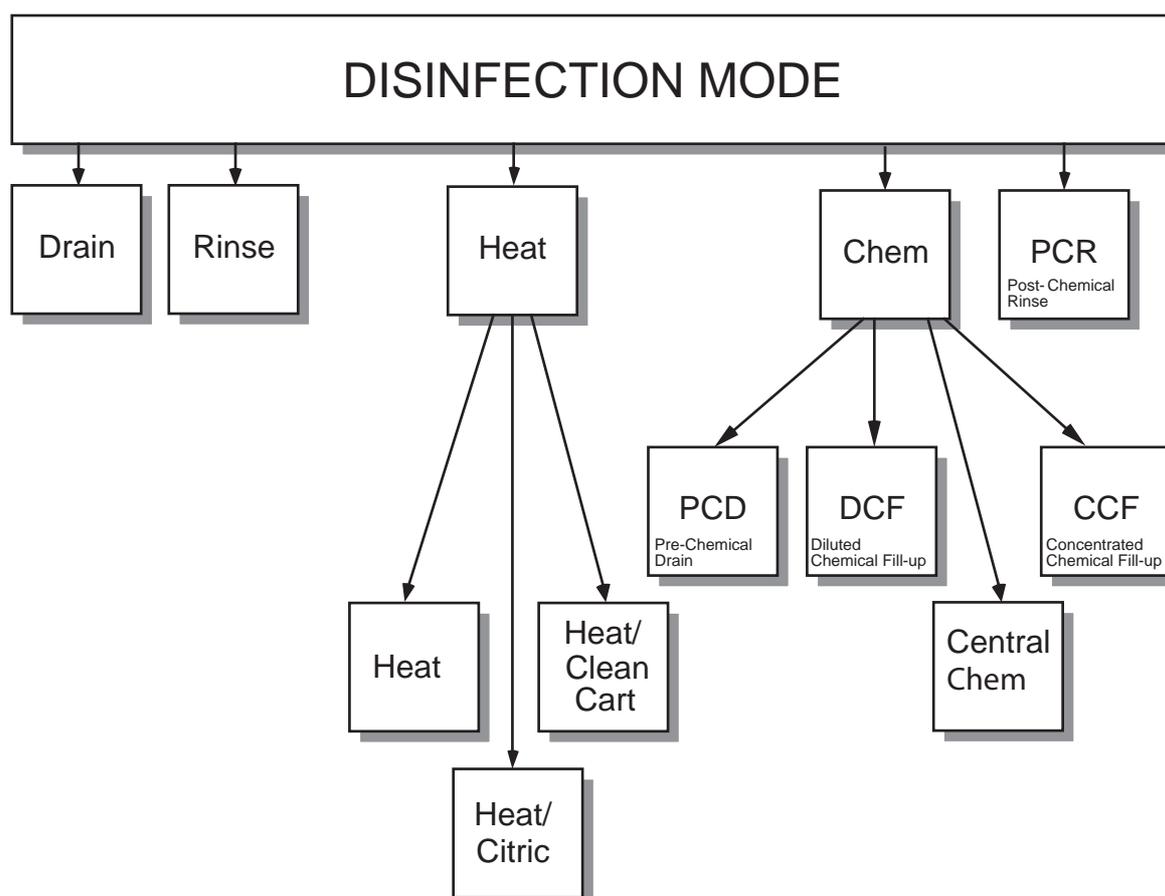
Disinfection/cleaning/hygiene modes:

1. Drain
2. Rinse
3. Heat disinfection
4. Combined citric acid/CleanCart and heat cleaning/disinfection
5. Peracetic acid disinfection
6. Hypochlorite cleaning/disinfection
7. Formaldehyde disinfection
8. Central chemical disinfection

4. Kombinuota Citrinos rūgštis/CleanCart ir valymas/dezinfekcija karščiu

Auto modes:

1. Rinse– drain
2. Heat disinfection– drain
3. Post chemical rinse – Peracetic acid rinse
– Hypochlorite rinse
– Formaldehyde rinse



AK200S / AK200 ULTRA_S Gambro / Baxter
gamybos aparatai

Maincycles and subcycles

The common building blocks of rinse, heat disinfection, and chemical rinse programs are maincycles, subcycles and temperatures:

The number of main cycles can vary between 1 and 6. The machine is always drained and filled with fresh water when a new main cycle is started.

The temperature for the rinse water in each main cycle can vary in the rinse phase.

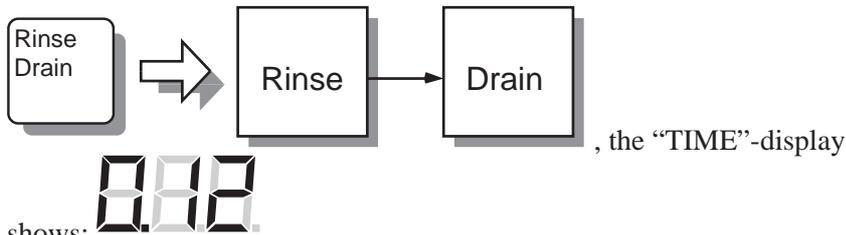
The number of subcycles can vary between 0 and 255. One sub cycle lasts 1 minute and consists of 5 different valve settings. This allows water to be flushed through the different flow paths.

The rinse, heat disinfection and post chemical rinse programs are built up identically and their progress can be monitored with logging.

These building blocks can be changed and set up individually for a clinic's specific needs. It requires a PC, and the program "GXP" (Gambro eXternal Preset).

Rinse/Drain

– is started by depressing the "Rinse/Drain" -button for 3 seconds:

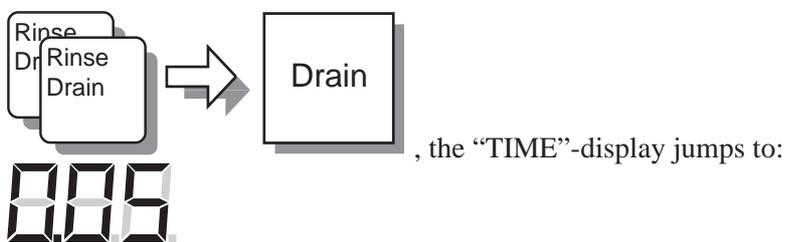


shows:

The machine rinses for 7 minutes, and then drains (5 minutes).

Drain

– is started by depressing the "Rinse/Drain"-button after the Rinse program has started.



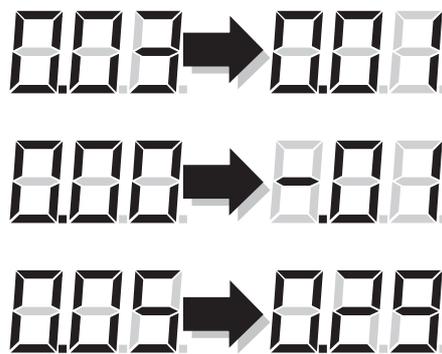
The machine drains.

Note: If the temperature happens to be more than 40 °C, the machine goes through a cool-off which prolongs the drain to 8 minutes. This is the reason why the water supply must be open even if only a drain is performed. The machine needs to have access to fresh water, if a cool-off is necessary.

Common to all the disinfection/cleaning programs is that the AK 200 S can be switched off (with “ON/OFF”) as soon as a program has been started. When the program terminates, the machine switches it self off.

Time display and disinfection

The time that is displayed is an estimated time. That is the timer is started counting down and as the program is running, at certain points it is compared with how far the program has come. This means if the monitor is faster than expected some minutes will “disappear” or some minutes will be added if slower than expected. This effect can also be seen as a minus value (“negative time”) in case the monitor is too slow. If some parts are broken or other faults on the monitor the timer can be reset and the disinfection program restarts. In the case some part is broken this can also give the effect of “negative” time.



Disinfection attention

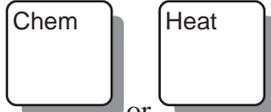
The attention will show up if the AK 200 S has not been disinfected for xx hours (preset). As soon as the functional check is passed the attention will disappear (default). It is however possible to preset that the AK 200 S never starts the functional check if the attention is issued. A disinfection has to be performed before the functional check can be passed.

DISINFECTION REQUIRED
XX hours since last disinfection

An attention is issued in case the time to reach correct temperature is too long, deviating from the estimated time too much. Allowed deviation from estimated time is depending on the preset of mains voltage (230/115 V). Even if the attention is displayed temporarily the disinfection will be performed correctly, it may however take longer time than the stated.

ABSENT HEATER SUPPLY VOLTAGE
Check fuses and connector

Disinfection history screen



When pressing **Chem** or **Heat** a log of the latest 50 disinfections is displayed

Date	Time	Status
2010-04-20	12:10	✓
2010-04-19	09:15	✓
2010-04-17	18:43	✓
2010-04-16	16:24	✗
2010-04-15	17:25	✓
2010-04-14	18:02	✓
2010-04-12	08:32	✓

SELECT HEAT CITRIC Clean
MODE 20.00% Cart

SELECT PER-LOW HYPOCHL CENTRAL
CHEMICAL 0.35% 0.50% DISINF.

Here it is possible to see type of program, date, and time the program finished and if it was successful or not. If the program was successfully completed the time displayed is the finishing time, if not successful the starting time is displayed.

Legend

- The disinfection program completed properly.
- The disinfection program did not finish properly.
- Chemical disinfection with Citric Acid.
- Chemical disinfection with Peracetic Acid.
- Chemical disinfection with Hypochlorite.
- Chemical disinfection with Formaldehyde.
- Central chemical disinfection.
- Chemical disinfection with Dialox (Low conc. Peracetic Acid)
- Other chemical disinfection.
- Heat disinfection.
- Heat disinfection with Citric Acid.
- Heat disinfection with CleanCart C.
- Heat disinfection with CleanCart A.

Dezinfekcija karščiū su CleanCar A ir CleanCartC

Integrated disinfection

Integrated Heat disinfection

The AK 200 S dialysis machine can be programmed to perform integrated Heat disinfection. In this mode, the machine receives hot water from the central water supply system when performing Heat disinfection. The Heat disinfection can be started manually or preferably be programmed to start automatically, during heating of the central water supply system. The advantage with integrated Heat disinfection is that the tube between the central water supply system (inlet water tube) and the machine is also disinfected.

Integrated Heat disinfection with WRO 300 H

The AK 200 S dialysis machine can be preset to perform integrated Heat disinfection supported by WRO 300 H. This program is recommended since it includes heating of the inlet water tube. The program starts with a Heat disinfection program of the AK 200 S dialysis machine. When the circulation phase has finished a Low Flow Heat phase automatically starts. In this phase, the machine will receive hot water (83°C) from the WRO 300 H, at a low flow rate, for 15 minutes. When this phase is complete, the machine ends with a drain phase.

Central Chemical disinfection

The AK 200 S dialysis machine can be programmed to perform Central Chemical disinfection. In this mode, the machine receives diluted disinfection solution from the central water supply system. When this mode is used the concentration of the disinfectant is not possible to preset. The Central disinfection program in the AK 200 S dialysis machine performs a pre drain and then a fill up with disinfection solution. During the dwell time the pumps are turned off. When the dwell time is reached and Rinse/Drain button start flashing the possibilities are;

1. Press Rinse/Drain, (wait for clean water in the loop) and machine performs Post Chemical rinse.
2. Turn off the machine and let the disinfectant stay until next startup (not longer than recommended in Operator's Manual).
3. Turn off the machine and let the machine start up in Auto Rinse, if set.

NOTE

Follow directions in Operator's Manual in respect to residual tests after Chemical disinfection.

Baxter

CleanCart

CLEANING AGENT

57.2 poz. / 57.3 poz.

CLEANCART

cartridges

With CleanCart A and CleanCart C cartridges, regular dialysis machine maintenance and disinfection assure proper dialysis machine function and requires less intensive machine operation from clinical staff.

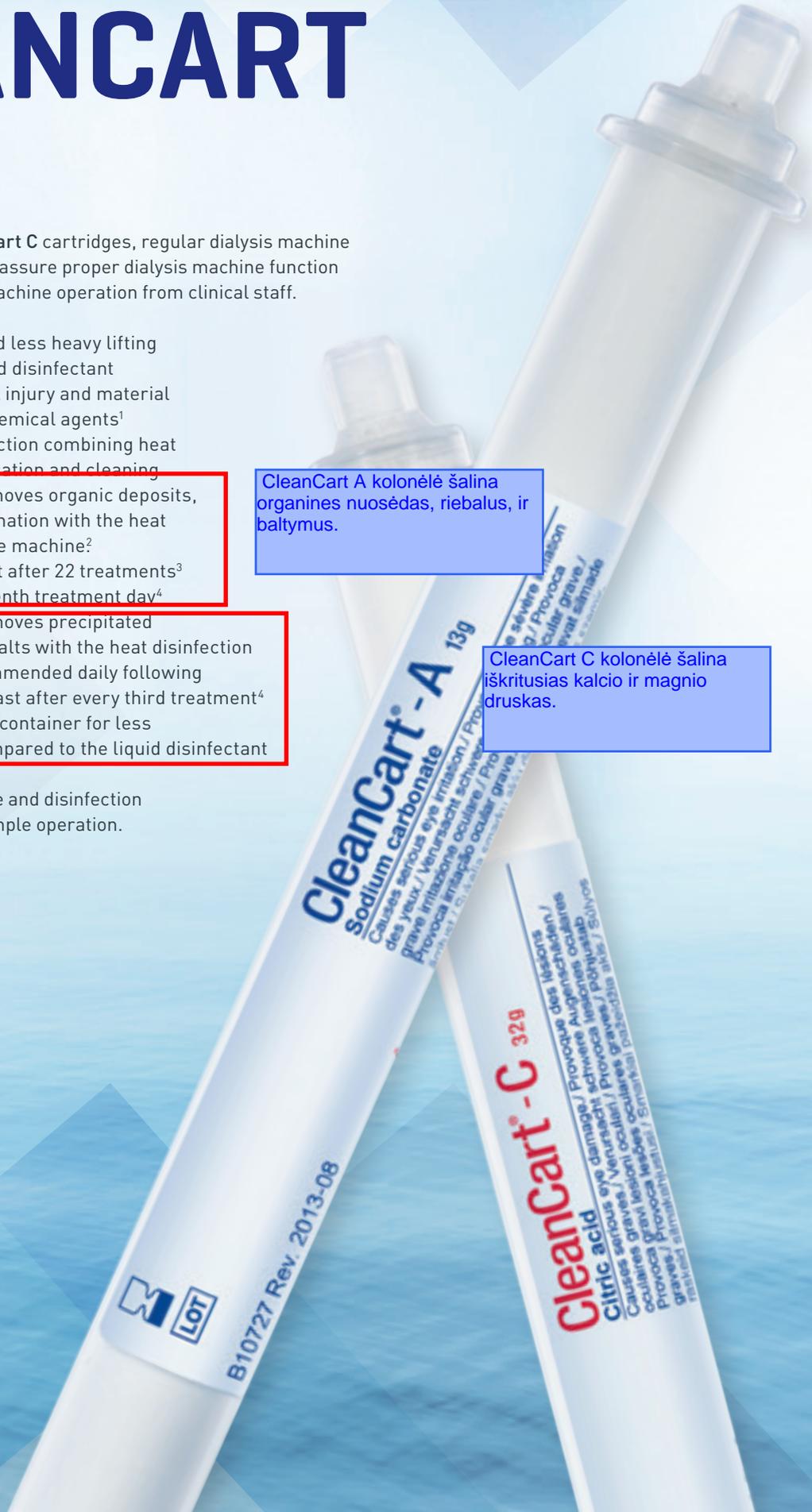
- Less space for storage and less heavy lifting for staff compared to liquid disinfectant
- Minimizes risk of personal injury and material damage when handling chemical agents¹
- Easy to streamline disinfection combining heat disinfection with decalcification and cleaning
- **CleanCart A** cartridge removes organic deposits, fats and proteins in combination with the heat disinfection program of the machine²
It is recommended at least after 22 treatments³ or at least once every seventh treatment day⁴

- **CleanCart C** cartridge removes precipitated calcium and magnesium salts with the heat disinfection of the machine⁵ It is recommended daily following the last treatment or at least after every third treatment⁴
- Recyclable polypropylene container for less environmental impact compared to the liquid disinfectant

Dialysis machine maintenance and disinfection becomes a convenient and simple operation.

CleanCart A kolonėlė šalina organines nuosėdas, riebalus, ir baltymus.

CleanCart C kolonėlė šalina iškritusias kalcio ir magnio druskas.



CLEANCART CARTRIDGE SPECIFICATIONS

CLEANCART A

The **CleanCart A** cartridge contains 13 grams of anhydrous sodium carbonate powder. The **CleanCart A** cartridge is intended for preparation of a sodium carbonate solution used for removing organic deposits, fats and proteins from the dialysis machine's fluid circuit. The **CleanCart A** cartridge must be used in combination with the heat disinfection program of the corresponding dialysis machine.²

CLEANCART C

The **CleanCart C** cartridge contains 32 grams of citric acid anhydrous powder. The **CleanCart C** cartridge is intended for preparation of a citric acid solution used for removing calcium and magnesium precipitation from the dialysis machine's fluid circuit. The **CleanCart C** cartridge must be used in combination with the heat disinfection program of the corresponding dialysis machine.⁵

TECHNICAL DATA	CLEANCART A	CLEANCART C
Action in combination with the heat disinfection program	Cleaning of the fluid path from organic deposits, fats, and proteins	Decalcification of the fluid path
Cartridge content	13 grams	32 grams
Total cartridge weight	Approx. 32 grams	Approx. 50 grams
Cartridge and label material	Recyclable polypropylene (PP)	Recyclable polypropylene (PP)
Recommended usage	Refer to operator's manual for corresponding dialysis machine	Refer to operator's manual for corresponding dialysis machine
pH (prepared solution)	Approx. 11	Approx. 2
Residual test needed	No	No
Biodegradable content	Yes	Yes
Storage conditions	Store below +30°C	Store below +30°C
Shelf life	24 months from date of manufacture	24 months from date of manufacture
Product code	114010	955799
Packaging	Box of 33 cartridges	Box of 33 cartridges
Box dimensions	279 x 247 x 81 mm	279 x 247 x 81 mm
Total box weight	1200 grams	1800 grams

1. *Bye bye chemical disinfection with canisters*. Jitka Pancířová. EDTNA/ERCA Journal 2001 XXVII 3

2. CleanCart A Operator's manual.

3. Artis machine Operator's Manual.

4. AK 98 Machine Operator's Manual.

5. CleanCart C Operator's manual.

The product must only be used with Gambro or Baxter branded dialysis machines that reference the **CleanCart C** and **CleanCart A** product in the operator's manual

For safe and proper use of the device, please refer to the Instructions for Use



renalcare.baxter.com

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