

Instruction for use

ALPRO-BCS

Procedural water supply system

Independent procedural water supply system for medical and dental treatment devices
acc. to standards EN 1717/DIN 1988-100 (protection of the drinking water line).



Information on processing regarding the workflow and standard operation procedure (SOP) may be maintained at our website:
www.alpro-medical.com, or can be requested by e-mail: info@alpro-medical.com, or by phone: +49 7725 9392-0.

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1. User instructions

Please attend to the following instructions in order to guarantee a trouble-free, economic and safe work.

2. Symbols used on product information, labels and instructions for use

	Use before (date of expiry) YYYY-MM
	Batch number XXXXXX (six-digit)
	Please follow the instruction for use
	EEC symbol for finished packs
	CE symbol for Medical Devices of class I
	CE symbol with Notified Body (0123) for Medical Devices of class IIa
	Symbol for order number
	Information on safety
	Manufacturer, Company ALPRO MEDICAL GMBH, St. Georgen
	Keep away from sunlight
	Pictogram for decontamination of procedural water
	Pictogram for spray cooling

3. Target group

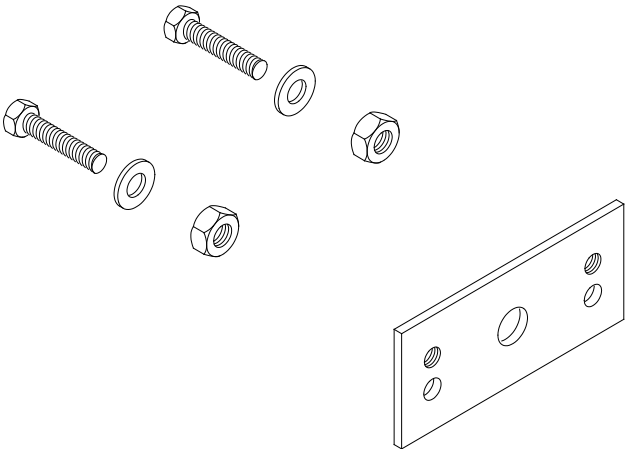
This instruction for use is intended for all users (doctors, dentists and professionals in charge of the processing of medical devices as well as hygiene professionals) in medical and dental facilities.

4. ALPRO-BCS (BottleCareSystem)

ALPRO-BCS housing with bottle holder, pressure regulator, 3/2-ways valve control with bottle and media tubes (pre-assembled)



Assembly kit
(connecting kit)
to attach the ALPRO-BCS



5. Product information ALPRO-BCS StarterSet

Set for the procedural water supply, basic cleaning and disinfection of procedural water lines of medical and dental treatment units.

The ALPRO-BCS provides an independent water supply of medical and dental treatment devices according to the standards **EN 1717/DIN 1988-100** (protection of the drinking water line).

Field of application

- For refitting of any treatment unit.

Decontamination of procedural water with Alpron/Bilpron:

- For use on patients the drinking water can be mixed with 1 % Alpron
- Preservation during break times (week-ends, holidays) with Bilpron
- A disinfection of the water lines can be carried out weekly or during rest/break periods (at least 12 hours) with Bilpron.
- Prevention of biofilm formation
- Protection against limescale
- No clogging of the instrument tubes and transmission instruments by biofilm or lime
- Reduction of repair costs
- Increase of functional reliability
- Constant quantity of spray water

Delivery forms

- REF 8757** ALPRO-BCS StarterSet
(with external housing)
- REF 8775** ALPRO-BCS pressure bottle
(1,5 l pressure bottle with
riser pipe)
- REF 8774** ALPRO-BCS housing
(for refitting)

Approvals

Approved by Ultradent, DKL and other equipment manufacturers



Application only by qualified personnel
with adequate protective clothing.

6. Description of the ALPRO-BCS (BottleCareSystem)

Procedural water supply for medical and dental treatment units.

Technical conditions:

- The ALPRO-BCS is designed in such a way that it can be connected to a regulated operational air pressure of ≤ 3.5 bar (the procedural water's specific operational air pressure requirements have to be met and adjusted, if necessary).
- At equipments with water boiler systems a check valve (REF 80780024 (6 mm) or REF 80770408 (8 mm)) has to be installed in order to prevent reflux at pressure discharge).
- All procedural water lines (instruments and tumbler filler*) can be connected (with the exception of spittoon bowls).

*It has to be checked if there is an air gap of 2 cm according to DIN 1988-100 and EN 1717, otherwise the gap has to be created at the tumbler filler as well.

The pressure bottle holder can be fixed at a suitable position (at least 45 cm above the floor, e. g. at the front of the assistant's element) where it can be easily reached for the filling of the pressure bottle.

The compressed air supply of the bottle corresponds to the pressure of the bottled water (supply: max. air pressure approx. 3.5 bar).

Caution: Prior to the installation a biofilm removal (BRS®) has to be carried out in all connected procedural water lines. This must be performed by trained staff only!

6.1. Scope of delivery of the ALPRO-BCS (StarterSet)

The following components are included and required for the assembly/attachment:

Qty.	Description
1	Metal housing upper part with pressure bottle holder and tube connections (completely assembled) for procedural water, 6 mm Ø outside diameter (transparent) and for pressurized air entry 4 mm Ø outside diameter (blue) with integrated 3/2-ways valve control (swivelling), air pressure regulator (preset at 3 bar) and riser tube with drip stop
1	ALPRO-BCS housing (for refitting)
1	Connection set (to fix the metal housing upper part)
1	Bilpron StarterSet
1	50 ml Alpron sample bottle
2	ALPRO-BCS pressure bottle, 1.5 l volume
1	100 ml BC-San 100

Description of the ALPRO-BCS (StarterSet)

6.2. User instructions

1. Fill the included pressure bottle (1.5 l) with drinking water only (according to local drinking water requirements). If necessary install a bacteria filter at the water intake. It is recommended, in order to maintain the water quality, that an adequate decontamination agent (e.g. Alpron 1 %) is added to the pressure bottle filled with drinking water.
2. Screw the filled pressure bottle into the bottle holder of the ALPRO-BCS.
3. Set the rocker arm at the outside of the ALPRO-BCS to position „I“ = On. The pressure bottle is audibly charged with compressed air.
4. As soon as an outlet is “pulled” (e.g. instrument tube) and the foot switch pressed, the procedural water flows from the bottle into the “pulled” instrument tube.
5. When the BCS bottle has to be filled again, **release the BCS bottle in pressurized condition** until you hear air escaping.

Please note: This process may be carried out under pressure without any risk, a special forced venting is integrated in the ALPRO-BCS pressure bottles.

Then set the rocker arm (see point 3) to position „0“ = OFF, see SOP.

6. Fill and screw in the BCS bottle (as described under points 1 - 3).
7. To prevent a recontamination during off-time periods (weekends or holidays), we recommend flushing all water lines with Bilpron via the included spare pressure bottle as “break time disinfection”. The empty BCS-bottles must be disinfected once a week (e.g. over the weekend) with BC-San 100.

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7. Product information Alpron

Decontamination of procedural water

Liquid concentrate for the continuous maintenance of the water quality in procedural water lines (including instruments and tumbler filler) of medical and dental units.

- application of concentrate at 1 % or undiluted for disinfection
- prevents the regrowth of germs
- removes and prevents the formation of algae
- prevents the sedimentation of lime and deposits
- non-corrosive

Composition

Phenoxyethanol, PHMB (biguanide), EDTA, sodium tosylchloramide

Efficacy

- bactericidal*
- yeasticidal*

*as concentrate

Application concentrations

1 % solution or concentrate for shock disinfection/clean-up

Clinical data

- Institut Fresenius, Stockach, disinfecting efficacy 1995-10/ 1996-08
- Institut Heppeler, Lörrach, phys.+ecolog. compatibility 1997-10
- Prof. Dr. H.-P. Werner, Schwerin, cytotoxicity test 2012-11

In special cases clinical data and approvals may be requested from us.

Field of application

Alpron is a concentrate for the continuous decontamination of procedural water and water lines (instrument tubes and tumbler filler) in all dental units.

Environment

The ready for use solution is physiologically and ecologically harmless.

Compatibility

Very good compatibility with materials

Shelf life

2 years

Dosage instruction

Application with internal disinfection device:

Fill dosing container with undiluted Alpron and ask your service engineer to adjust the required dosage (standard = 1 %).

Application with external dosage device:

Mix Alpron with external procedural water (e.g. BottleCareSystem) at 1 % (ratio: 10 ml Alpron for 990 ml procedural water) and connect it to the treatment unit. In case of chair-side dosage devices ask your service engineer to carry out the adjustment.

Approvals

Approved amongst others by Sirona Dental

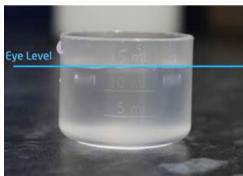
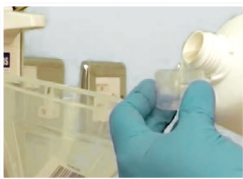
Delivery forms

REF 3183 1 l Alpron



Alpron
CE 0123

Application only by qualified personnel
with adequate protective clothing.



8. Product information Bilpron

Decontamination of procedural water

Solution ready for use for the decontamination and prevention of biofilm formation in procedural water lines of medical and dental units.

- removes safely and reliably organic as well as inorganic residues such as limestone
- effective against a broad spectrum of germs
- prevents a fast new formation of biofilm
- non-corrosive
- ready for use
- no permanent addition

Composition

ethylene diamine tetraacetate, p-hydroxy benzoic acid ester, polyhexamethylene-biguanide

Efficacy

- bactericidal
- fungicidal

Clinical data

- Institut Niedermann, Überlingen, screening test bactericidal, fungicidal effect, 2014-05
- Prof. Dr. H.-P. Werner, Schwerin, cytotoxicity test, 2012-12

In special cases clinical data and approvals may be requested from us.

Field of application

- Disinfection solution ready for use for the application e.g. in the Weekend-System II, ALPRO-BCS, as well as other autarkic medical water supply systems once to twice a week.

Bilpron is used for the decontamination and prevention of biofilm formation in water lines (including instrument tubes and tumbler filler) of all medical and dental treatment units.

- Contact time in the unit: until the next working day (at least for 12 hours) or as long-term disinfection up to 3 months possible.

Shelf life

2 years

Application

Before starting the application (weekend, holidays or overnight) fill the tank with Bilpron up to the mark (e.g. by Bilpron measuring cup). Remove transmission instruments from the instrument tubes. Activate the decontamination system according to manufacturer's instructions. Fill each water line (all instrument tubes, tumbler filler and other water supplies e. g. peripheral devices) with Bilpron until it comes out of the various outlets (recognizable by the blue colour). Afterwards turn off the treatment unit.

Allow Bilpron to remain in the procedural water lines until the practice starts to work again – however, for at least 12 hours.

After restarting the treatment unit, turn off the decontamination system and flush all flooded procedural water lines until clear water comes out. For further information see the instruction manual of the decontamination system.

Delivery forms

REF 3181	6 x 1 l bottle in cardboard box
REF 3179-N	Bilpron StarterSet
REF 3179-PM	Bilpron StarterSet 3 (PM)

Accessories

REF 3081	Measuring cup (500 ml)
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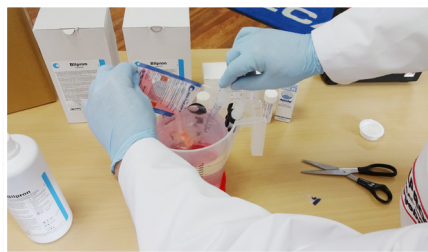


Bilpron
CE 0123

Application only by qualified personnel
with adequate protective clothing.

Approvals

Approved amongst others by Heka Dental,
Morita, Planmeca, Ritter, Sirona Dental,
Takara Belmont, TGA, Ultradent



PreCleaner

Note: To be used only by trained
specialist technicians.

Bilpron StarterSet
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9. Product information BC-San 100

Decontamination of treatment water

Liquid concentrate for the virucidal final disinfection of surfaces of medical devices, such as light guides, polymerisation lamps, heads of intraoral cameras/scanners, as well as for the disinfection/processing of wipe dispenser boxes and pressure cylinders (1 - 1.5 l) of stand-alone procedural water supply systems such as the ALPRO-BCS (BottleCareSystem).

Composition

Sodium hypochlorite solution with 1 – 2 % active chlorine

Application:

1. Virucidal final disinfection of surfaces: After pre-cleaning and general disinfection (e.g. with PlastiSept eco Wipes/MinutenWipes), soak a suitable cellulose wipe with undiluted BC-San 100, thoroughly wipe the surfaces to be disinfected and allow to take effect for at least 5 minutes.

2. Wipe dispenser boxes: Soak suitable cellulose wipe with undiluted BC-San 100, wipe all inner and outer surfaces of the dispenser box (including lid) and allow to take effect for at least 5 minutes.

3. Pressure cylinders of procedural water supply systems: Fill the content of the bottle (100 ml) of BC-San 100 into the empty pressure cylinder and fill it with drinking water up to the beginning of the screw thread. Leave the solution in the pressure cylinder to take effect for at least 6 hours (e.g. overnight). During disinfection, keep the filled pressure cylinder closed in the processing room or attach it to the holder of the procedural water supply system as usual.

Attention

Do not pressurise the pressure bottle to be disinfected during the disinfection!

Reconnection

Prior to reconnection of the procedural water supply system, discharge the disinfected pressure cylinder and rinse it out thoroughly with drinking water.

Afterwards follow the instructions of the manufacturer of the procedural water supply system.

Shelf life

2 years

Delivery forms

REF 3199 12 x 100 ml bottle
in cardboard box



Application only by qualified personnel wearing protective clothing!
Not suitable for unalloyed metals.



BC-San 100

CE 0123

10. Technical information

Replacement of riser tube at the ALPRO-BCS (BottleCareSystem)

Separate the riser tube from the fitting:

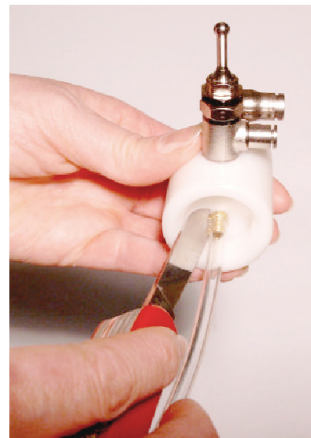
The riser tube can only be removed by careful cutting with a knife.

See illustration:



It is recommended to change the riser pipe 1-2 times a year.

Please note: If the riser tube is pulled too strongly the plastic thread will be torn out or become leaky (air penetrates into the water system)



11. Hazard and safety information

The ALPRO-BCS pressure bottle has a limited shelf life (see bottle label) and must be replaced afterwards.

The container is under pressure during usage and may burst.

It is recommended to have a regular inspection (once a year) carried out by a service technician to check the extensive functionality.

Disposal: After disinfection with BC-San 100, the ALPRO-BCS pressure bottle can be disposed of normally via the dual system.

The bottle holder and housing can be disposed of via the supply source.

12. Report of incidents

Please report any incident that may occur in connection with the product to:

ALPRO MEDICAL GMBH

E-Mail: info@alpro-medical.de

Tel.: +49 7725 9392-0

and the national authority



Please use our ALPRO service for information and updates. Once registered, you will automatically receive all updated information data, standard operating procedures (SOP), safety data sheet etc.

Please get registered under **www.alpro-medical.com** or by phone **+49 7725 9392-0**. We are at your disposal for any question.

Please contact our sales representatives or send us an e-mail.

