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Tethys H10 PLUS

The Evolution of Disinfection



H10 PLUS



mocom STERILIZATION FIRST

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H10 PLUS

H10 Revolution.

The world of disinfection is no longer the same.

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Designed to give you the best.

The best performance in a simple and fast work-flow.

An innovative device that replaces the numerous manual tasks typical of the stages preceding sterilization, thus reducing the operator's workloads. Tethys H10 Plus makes the instrument reconditioning process even simpler and more functional.



Automatic

Decontamination, washing, disinfection and drying are completed autonomously after selecting the desired program. The operator's intervention is quite limited, thus eliminating the chance of error and guaranteeing perfect reconditioning.

Safe

Tethys H10 Plus performs all the manual activities of reconditioning that precede sterilization. The risks for the operator are reduced with the guarantee of clean, disinfected and dry instruments.

Savings

Thanks to the notable time savings obtained with Tethys H10 Plus, the operator can perform other work activities.

Fast

It only takes 35 minutes to complete the prewashing, ultrasound washing, thermal disinfection and hot air drying. All the speed you need, in one simple passage.

Complete

The table top offers the same performance as traditional thermal disinfectors. Tethys H10 Plus, with an extremely reduced size adapted to any surgery, has everything: decalcificators, detergent reservoir, charging pump, discharging pump and Aqua-Stop.

Simple

The control system and cycle management is simple and effective thanks to the wide touch screen display and the simple and intuitive user interface.

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4 phases in one simple passage.

Single cycle, reduced times and a complete job for a simpler, faster and more effective operative flow.

Tethys H10 Plus makes the reconditioning process even simpler and more functional. Decontamination, washing, thermal disinfection and drying are all performed in a single, rapid, automatic process. One cycle that eliminates all risks for the operator and efficiently completes the four phases that precede instruments' packaging and sterilization.



1

Decontamination

Reduction of instruments' bacterial count through washing at low temperatures.

2

Ultrasound washing

Elimination of organic and inorganic residues from instruments.
The ultrasound's force eliminates even the most resistant filth.

3

Thermal disinfection

Drastic reduction of the number of live microorganisms on instruments with certified thermal disinfection.

4

Hot air drying

A stream of hot air enables the complete removal of water from instruments of any material.

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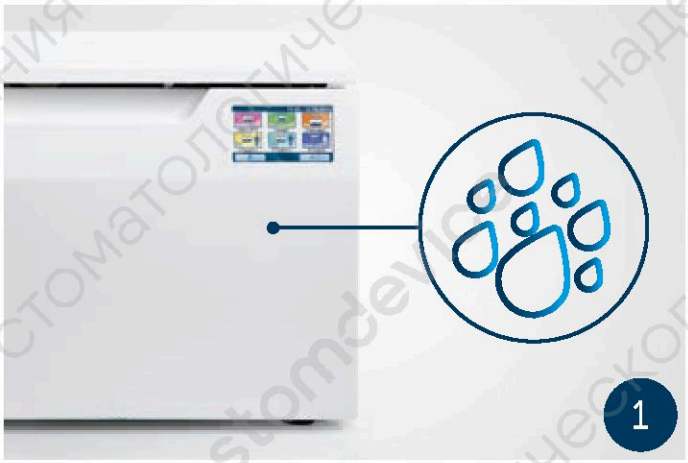


надежный поставщик стоматологического оборудования stomdevice

Performance first and foremost.

Water, ultrasound, heat and hot air for fast and certified treatment.

Tethys H10 Plus is an EN ISO 15883-1/2-certified medical device with spray washing, ultrasound cleaning action and a 90 °C thermal disinfection stage characterised by an outstanding value of A_0=3,000. The procedure is completed with a stream of hot air that perfectly dries the instruments.



Decontamination

The instruments are placed in baskets without requiring any rinsing. A prewash with a rotor at low temperatures eliminates residues and avoids the risk of proteins fixing to the instruments in the successive high temperature treatment.



Washing

Tethys H10 Plus washing is characterised by the **strength of ultrasound**, allowing the removal of any adhering traces. The uniform ultrasound distribution within the fluid allows even the most "hidden" areas to be cleaned. The ultrasound washing phase is preceded by a cold prewash and then followed by a triple spray rinse to eliminate all residue from the instruments.

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CERTIFIED THERMAL DISINFECTION

Compliant with EN ISO 15883-1/2.



Thermal disinfection

Tethys H10 Plus is a professional device provided with a **90 °C thermal disinfection** process according to EN ISO 15883-1/2. Thanks to the heating action, the elimination of microorganisms through a validated process is guaranteed. Thanks also to a recirculating heating circuit, the water is heated much faster than in traditional systems, offering maximum efficiency and a drastic time reduction.



Hot air drying

After the disinfection phase, the vapours and humidity present in the tank are eliminated thanks to a **forced-draught drying phase that is purified with an integrated HEPA filter.** Strong electric resistance lets the air be heated before it is introduced to the chamber and ensures the perfect drying of any material. At the end of the process, the instruments are ready for the subsequent packaging phase.

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Simpler.

Simple to use, revolutionary results.

Tethys H10 Plus is the perfect synthesis of innovative technology and simplicity of use. The touch screen was created to guarantee complete interaction, offering the possibility to choose, simply and intuitively, the best suited work program, choosing it from those that have been pre-configured or personalised.



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"Touch" Generation

A colour LCD "touch" screen and multi-language icon menu allows a clear and intuitive selection of commands, completely customisable based on professional needs. The desired program only needs to be chosen, and the cycle will proceed in complete autonomy.



Everything under control

Tethys H10 Plus is equipped with an **internal memory** that is able to record all data from operating cycles, directly in pdf format. The operator is periodically reminded to download files with a USB flash drive, allowing the information to easily be stored on a PC. The USB port can also be used to easily update the device's firmware, so that the latest release is always available.



Complete cycles

Tethys H10 Plus allows cycles that reach very high levels of thermal disinfection to be programmed, with **A_0 varying from 600 to 6,000** - A_0 is a physical parameter, introduced by EN ISO 15883-1/2 standard, that associates a numerical value with the level of thermal disinfection reached. The thermal disinfection value is always clearly visible on the display, even before setting the type of program desired.

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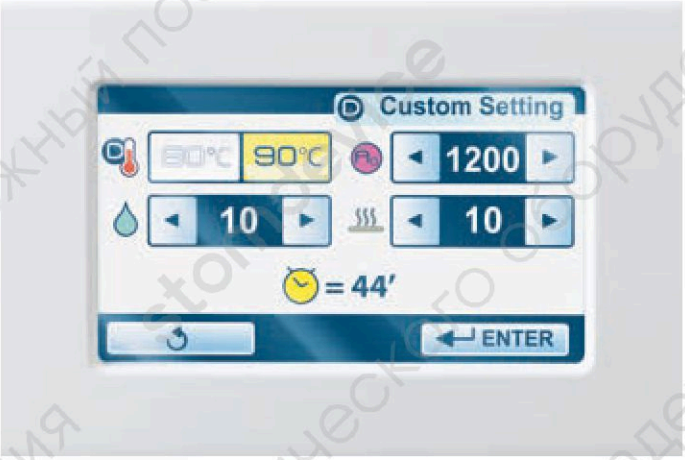
Focus always on the user.

With Tethys H10 PLUS, you are free to personalise the work cycle, perfectly adapting it to your needs.

Innovation means improving performance and reducing the time necessary to carry out an activity. With an eye on improving daily workflow, Tethys H10 Plus is also designed for the personalisation of cycles, user management and choice of detergent.



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Personalisation

Tethys H10 Plus presents **personalised washing and disinfecting cycles**, where it is possible to define the desired washing and thermal disinfection temperatures and the duration of each process phase, including drying. There is also a function for timed operation that allows the chosen cycle to be executed in preferred times, also outside of normal working hours, for example overnight, thus reducing costs related to energy consumption.



Advanced multi-user management

Tethys H10 Plus has a comprehensive, **advanced user management system** that can be used to enable numerous members of personnel, each provided with their own PIN; this allows the application of user-specific parameters and accurate association of executed cycles with users.



TethyClean

The washing and prewashing phases are carried out with the aid of a detergent stored in the integrated reservoir. **TethyClean** is the perfect companion, specifically developed for Tethys H10 Plus, with optimal results. Tethys H10 Plus is also guaranteed with other compatible detergents.

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Hi-Performance.

Protection and safety: the added value of Tethys H10 PLUS.

The H10 revolution begins with its sophisticated washing and disinfection system, designed to make the process faster and more efficient. More streamlined and intuitive processes, in synergy with its unique washing process and avant garde decalcification system.



Integrated decalcification system

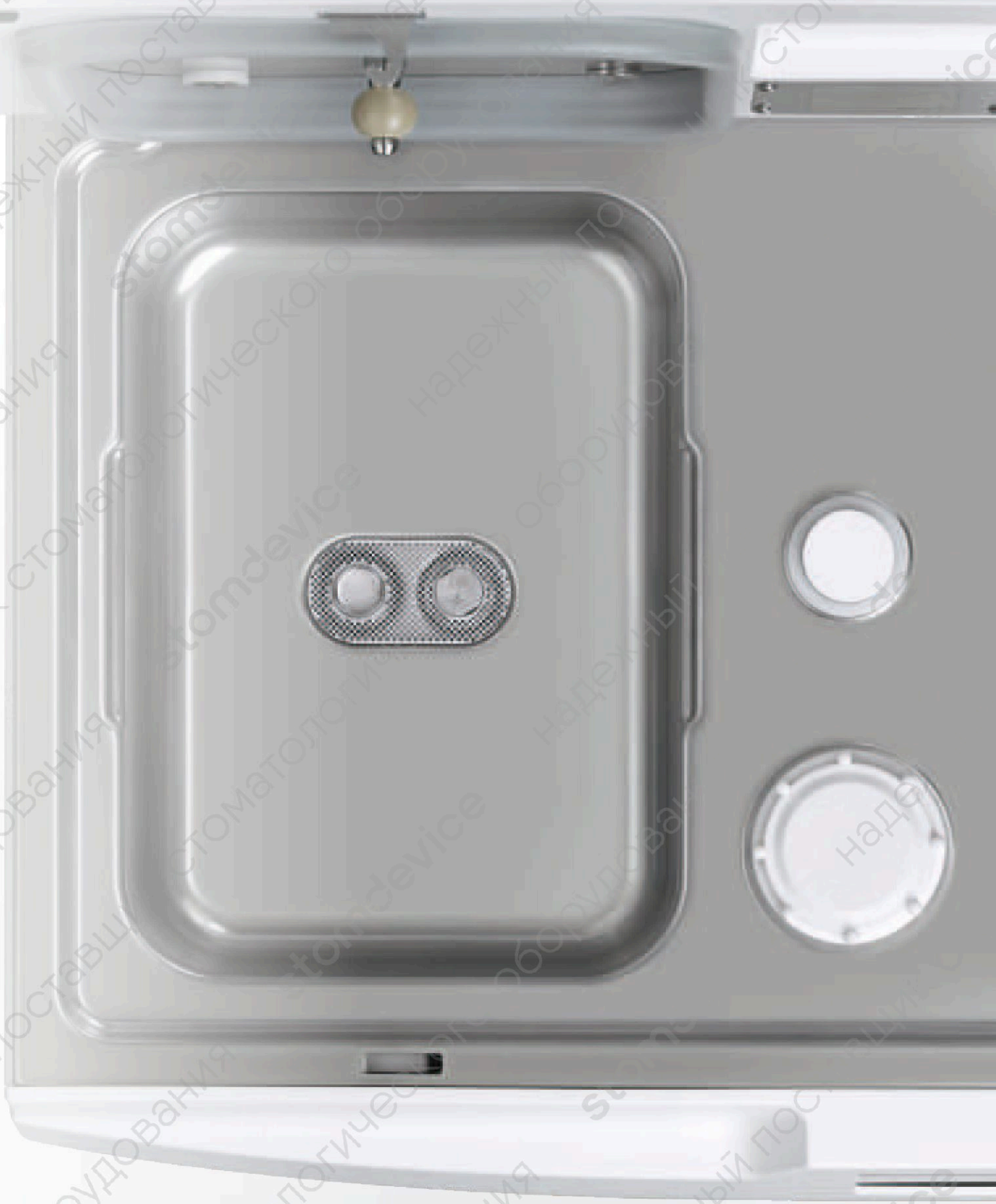
Tethys H10 Plus is the only device of its category that offers an integrated decalcification system with **ion exchange resins**. The model's exceptional functionality prevents the accumulation of limestone and other impurities within the water circuit. The results of this innovation start with the instruments: always shining and free of stains and traces of oxidation. Perfectly efficient instrumentation is subjected to less degradation over time and offers greater safety guarantees. The decalcificators' maintenance was designed to respond to the criteria of simplicity and practicality, through the addition of simple kitchen or dishwasher salt. The electronic control system manages the entire procedure, ensuring maximum efficiency in every moment.



Rotating nozzle

The innovative solution of the rotating nozzle, a system which is usually only in industrial settings, enables effective washing and disinfection phases to be obtained that are constant over time. **The stream's elevated strength and uniformity** make the nozzle functional and able to ensure the elimination of residues during the rinsing stages as well as guaranteeing perfect thermal distribution.

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Complete and compact.

All the traditional thermal disinfector features in a smaller size.

Tethys H10 Plus is the table top device with everything: decalcificators, detergent reservoir, charging pump, discharging pump and Aqua-Stop. Its extremely reduced size makes it the ideal thermal disinfector for all surgeries.



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Door lock system

Tethys H10 Plus is equipped with an automatic door lock system that inhibits the accidental opening of the door during all the processing phases, helping avoid unpleasant and potentially dangerous situations for the operator.



Large detergent reservoir

The integrated reservoir allows up to 12 cycles to be run when completely full of detergent and it is equipped with an indicator that signals the operator when it must be refilled.



Washing and drain pump

Tethys H10 Plus is equipped with a high pressure washing and drain pump to guarantee constant performance in any installation condition.

Aqua-Stop

The integrated Aqua-Stop system protects the user from any eventual water losses.

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Connectivity and traceability.

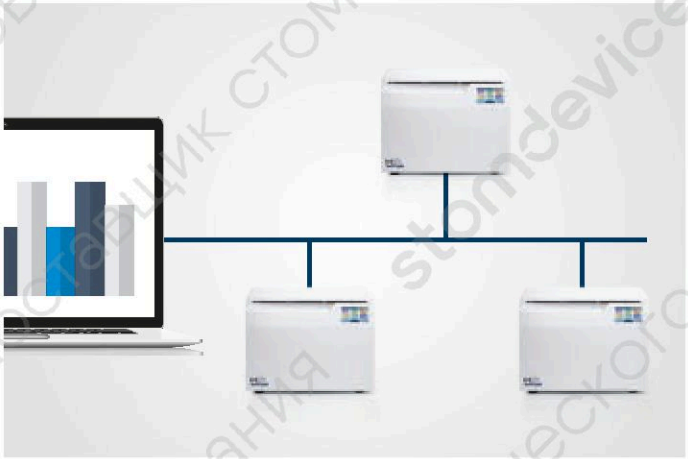
Tethys H10 PLUS can be perfectly integrated with the surgery's network, allowing data to be shared and the device to be remotely controlled.

Just like in all new generation devices, Tethys H10 Plus offers the possibility to be integrated with the surgery's network. The device and its internal data can be managed remotely. Once connected to the network, assistance is also easier, with the option to remotely control the device.



Ethernet

Through the standard Ethernet port, Tethys H10 Plus can be integrated within a LAN (Local Area Network). Each connected device can therefore be viewed from the workstation of the operator responsible for the device, who can download the cycle data and check the process' progress directly from their workstation.



Advanced connectivity

Integrating Tethys H10 Plus to the network allows incoming data from several devices to be stored on a single computer without having to physically transfer it. Via the dedicated web server, incorporated in the device's firmware, users can connect with every individual device on the network and check its status without having to move from their workstations.

Remote Assistance

Connecting Tethys H10 Plus to the Internet, in after sales, allows diagnoses to be performed on the device remotely. For the user, this implies the possibility to receive assistance without requiring the physical presence of a technician.

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Tethys H10 PLUS Technical Specifications.



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Technical data	
Power supply	220/240 V - 50 Hz
Rated power	2300 W
External dimensions (L x H x D)	470 x 430 x 500 mm
Net weight	37 kg
Detergent reservoir capacity	0.7 litres (autonomy: up to 12 cycles)
Tank dimensions (L x H x D)	224 x 314 x 125 mm
Nominal tank volume	8 litres
Useful tank volume	6 litres
Max water consumption (per cycle)	15 litres
Max load	2 kg

Cycle Description	°C	Effective time	A_0	Total cycle time
Disinfection D90	90	Washing 13' Disinfection 5'	3.000	35'
Washing W	45	13'	-	18'
Prewashing	25	6'	-	7'
Custom disinfection D1	80 or 90	10' ÷ 20' (at 80 °C)	600 ÷ 1.200 (at 80 °C)	Based on the settings
Custom disinfection D2		1' ÷ 9' (at 90 °C)	600 ÷ 6.000 (at 90 °C)	
Custom washing W1	45	13' ÷ 22'	-	

Standard equipment	
USB Port	●
Ethernet (RJ 45 port)	●
Instrument holding basket	●
Water supply connection kit	●
Funnel for salt	●
Funnel for detergent	●
HEPA filter	●
2 Additional upper basket	●
Micromesh basket for burs	●
Tethys Aqua-Stop	●

● = as standard

CE 0051

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The Tethys H10 PLUS evolved process.

Three partners for perfect sterilization.

The three-stage reconditioning process with the Tethys H10 Plus Disinfection Device, Millseal+ Evo Thermal Sealer and B Futura Sterilizer make the operator's work simpler, faster and safer. A synergic process consisting of just a few simple steps provides unprecedented results. Mocom revolutionises the world of sterilization, with a compact and completely dedicated work line for reaching unequal performance standards.

Tethys H10 PLUS

The thermal disinfector which combines the power of water, the energy of heat and the force of ultrasound in a single exclusive process.

Millseal+ Evo

An efficient, easy-to-use thermal sealer that meets all your daily requirements. Available in both manual and automatic versions, Mocom thermal sealers ensure effective maintenance of instrument sterility.

B Futura

The 'intelligent' sterilizer that provides surgeries with a truly indispensable tool. Only years of research and experience can produce such an exceptional result: a highly performing product that is easy to use.



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easy, it's Mocom

Our vision.

For over twenty-five years, safety, reliability and innovation have been the guiding principles behind all aspects of design and production at Mocom, the world's leading sterilization firm. The factors that set us apart, in terms of both skill and innovation, are conscientious attention to the choice of materials, ground-breaking technology, enforcement of strict production/quality control protocols and the wealth of experience accumulated by our qualified, specialised sterilization system designers. Mocom, sterilization first.

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