### Tethys H10 PLUS technical specifications.

#### Technical data

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

Cycle Description	°C	Effective time	A <sub>0</sub>	Total cycle time
Disinfection D90	90	Washing 13' Disinfection 4'"	3.000	41'
Washing W	45	13'	-	20'
Prewashing	25	5'	-	5'
Custom disinfection D1	80 or 90	10' ÷ 20' (at 80 °C) 1' ÷ 9' (at 90 °C)"	600 ÷ 1.200 (at 80 °C) 600 ÷ 6.000 (at 90 °C)	Based on the settings
Custom washing W1	45	6' ÷ 15'	-	Based on the settings
Handpiece cycle*	90	Washing 13' Disinfection'	3000	34'

\* HMD accessory required to be able to use this cycle

#### Standard equipment

Standald equipment	
USB port	•
Ethernet port (RJ 45)	•
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	•

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#### **BU Medical Equipment** Sede legale ed amministrativa Headquarters

Cefla s.c. Via Selice Provinciale, 23/a 40026 Imola - Bo (Italy) tel. +39 0542 653111 fax +39 0542 653344

#### Stabilimento

Plant Via Bicocca, 14/c 40026 Imola - Bo (Italy) tel. +39 0542 653441 fax +39 0542 653601



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# TETHYS H10 PLUS The Evolution of Disinfection



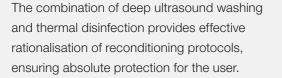
### The first 4-in-1 device.

Decontamination, washing, thermal disinfection and drying all in one single step, ensuring simpler, faster, more effective workflows.

Tethys H10 Plus is the new **thermal disinfector** that makes the instrument reconditioning process simple and practical. This innovative device carries out many of the numerous manual tasks typically encountered prior to sterilization, thus reducing personnel workloads and risk. With the Tethys H10 Plus decontamination, washing, thermal disinfection and drying are compacted into one fast automated process.

#### A certified revolution

Tethys H10 Plus is a true EN ISO 15883-1/2-compliant thermal disinfector that incorporates the full force of ultrasound.









Reduction of the bacteria count on instruments.

Removal of organic and inorganic residues from instruments.







### Easy to use.

Innovating means improving performance and reducing the time and effort needed for task completion. Tethys H10 Plus does this by combining deep-reaching ultrasound washing, the effectiveness of thermal disinfection and the practicality of hot air drying – all in one single device. Just a few simple steps, configurable according to requirements, make the washing and thermal disinfection process simpler, safer and faster than ever.



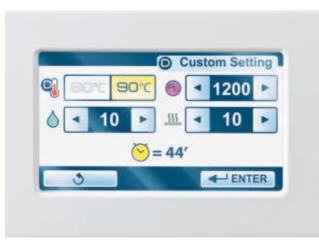
#### LCD touchscreen

The LCD colour touchscreen and multi-lingual icon menu provide users with clear, easy-to-understand controls that can be fully personalised according to their specific professional needs. Just select the desired programme and the cycle will run autonomously.



#### Perfect control

Tethys H10 Plus has an **internal memory** that records all disinfection cycle data directly in pdf format. Users are periodically informed of the need to download files onto a USB memory stick so they can be saved on a PC. The built-in USB port also allows user-friendly upgrading of device firmware. This ensures that the latest release is always available.



#### Personalised settings

Tethys H10 Plus provides users with **personalised washing and thermal disinfection cycles** in which it is possible to set the required washing and thermal disinfection temperatures and the duration of the process phases, including the drying stage. There is also a delayed start function, allowing users to run the selected cycle at the desired time, even outside normal working hours (e.g. at night) in order to cut electricity costs.

### Effective action.

#### **Combined ultrasound-heat action**

No compromising, only maximum safety and efficiency, with **guaranteed results under all conditions**. Tethys H10 Plus is an EN ISO 15883-1/2 -compliant medical device featuring a pressure washing function that works in conjunction with an ultrasound action and a 90°C thermal disinfection stage (characterised by the high value of  $A_0$ =3,000).

#### The force of ultrasound

**Ultrasound** is a key feature on the Tethys H10 Plus, its power allowing the removal of every last residue on the instruments. Uniform ultrasound distribution inside the tank allows cleaning even in "shadow" zones. The ultrasound washing phase is preceded by a cold prewash stage and followed by a triple pressure rinse to remove every last deposit from the instruments.

#### **Real thermal disinfection**

Tethys H10 Plus is a medical device featuring a 90°C thermal disinfection process that complies with EN ISO 15883-1/2. A validated heat treatment process ensures the elimination of microorganisms. An exclusive water heater circuit ensures the machine is brought to the required temperature much faster than on traditional systems, maximising effectiveness and drastically reducing cycle times.

#### Hot air drying

At the end of the thermal disinfection stage the steam in the tank and the residual moisture on the instruments are eliminated thanks to a **hot air drying phase that includes purification with an integrated HEPA filter.** At the end of the process the instruments are perfectly dry and ready for the subsequent packaging stage.

### TETHYS H10 PLUS

### Fast cycle.

#### Shorter times

Tethys H10 Plus reduces washing and disinfection times drastically, halving them with respect to traditional processes. Integrating the various phases on **one automatic device** speeds up the work cycle and reduces the number of manual tasks, allowing you to **use your time optimally.** 

#### A complete cycle in just 35 minutes

Prewashing, ultrasound washing, rinse, thermal disinfection and hot air drying in just 35 minutes: that's the Tethys H10 Plus. The only thermal disinfector that **reduces cycle times to a previously unattainable minimum**.

#### Advanced connectivity

Tethys H10 Plus makes operating data available via a **standard Ethernet network**. This allows incoming data from several devices to be stored on a single computer without having to physically transfer it. Without any need for dedicated software, users can connect up to every individual device on the network and check its status without having to move from their workstations.

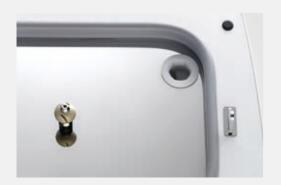


### Protection and safety.









#### Integrated decalcification system

Tethys H10 Plus is the only device in its category to provide an integrated water softener with ion exchange resins. This model's outstanding action prevents build-up of limescale and other impurities in the water circuit.

The results of this innovation can be seen first of all in the instruments: always shining, with no stains or signs of oxidation. A set of instruments in perfect working condition suffers less wear over time and provides a better guarantee of safety.

Maintenance of the water softener is designed to meet the criteria of simplicity and practicality, by the introduction of plain cooking salt. The electronic control system handles the whole procedure and ensures maximum effectiveness at every moment.

#### TethyClean

The washing and prewashing phases are carried out with the aid of a detergent contained 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.

#### Rotary nozzle

The innovative rotary nozzle solution, a system that is normally only found in industrial applications, ensures incredibly effective washing, and disinfection stages which remain effective and unaltered over the course of time. What makes this nozzle so effective is its **powerful, uniform** jet, which ensures elimination of residues during the rinsing stages and perfectly even heating.



#### 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.

### Hi-Tech.

Tethys H10 Plus encapsulates technological innovation and user-friendliness. The touchscreen has been designed to ensure full interaction by allowing users to select, quickly and intuitively, the most suitable programme from among the various pre-set or personalised options.





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### **Process control**

The configuration menu can be used to assign the Tethys H10 Plus an IP address that allows its integration on a LAN (Local Area Network). Each connected device will then be visible from the facility manager's control station; he/she can then download cycle data and see how processes are progressing without having to leave the workstation.

### TETHYS H10 PLUS

#### sive programming

#### Plus offers 6 washing and thermal disinfection

ich 3 can be personalised according to the user's equirements and the type of load being processed. ouchscreen lets the user select the cycle, activate parameters (delayed start, extra drying etc.) and choose on the configuration menu (language, date/time, unit of measure, user management etc.).

#### Advanced multi-user management

#### us has a comprehensive, advanced user

t system that can be used to enable numerous personnel, each provided with their own PIN; this allows n of user-specific parameters and accurate association ycles with operators.

### Thanks to the new HMD, Tethys H10 is now also a handpiece thermal disinfector

This latest accessory makes it possible to wash, thermally disinfect and dry up to 6 instruments (turbines or micromotor handpieces) simultaneously. The HMD is compatible with all Tethys H10, including those that have already been installed. All the user has to do is update the firmware to make the thermal disinfector more complete than ever.



#### Handpiece cycle

With the new handpiece cycle and the dedicated support, a cycle can be completed in just 34 minutes. This cycle consists of:

- Washing (no ultrasound)
- Thermal disinfection
- Drying

Thermal disinfection effectiveness on external surfaces has been verified as per EN15883-1 and EN15883-2.



#### **Maximum flexibility**

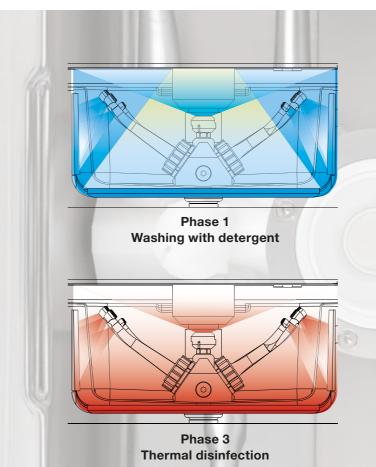
The support can easily be assembled and removed; this allows use of a traditional basket and ensures the Tethys H10 can still perform its original function as an ultrasound thermal disinfector.





To ensure proper instrument treatment all you need to do is fit the specific adapter for the relative instrument family.







Micromotor handpiece Turbine adapter adapter Allows micromotor handpieces to be treated



Allows turbines to be treated



Scaler tip adapter Allows simultaneous treatment of up to 3 scaler tips



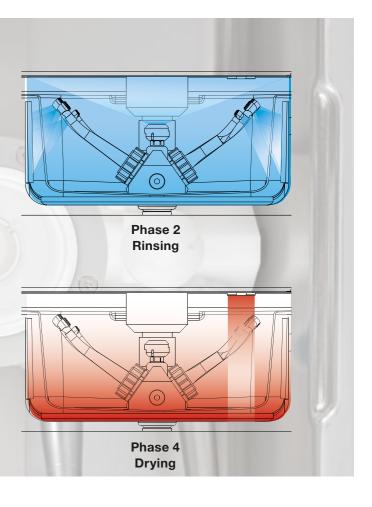
Plug Necessary to seal unused connectors

### TETHYS H10 PLUS

#### Adapters for every requirement

Users can treat the following instruments: - Turbines - Micromotor handpieces



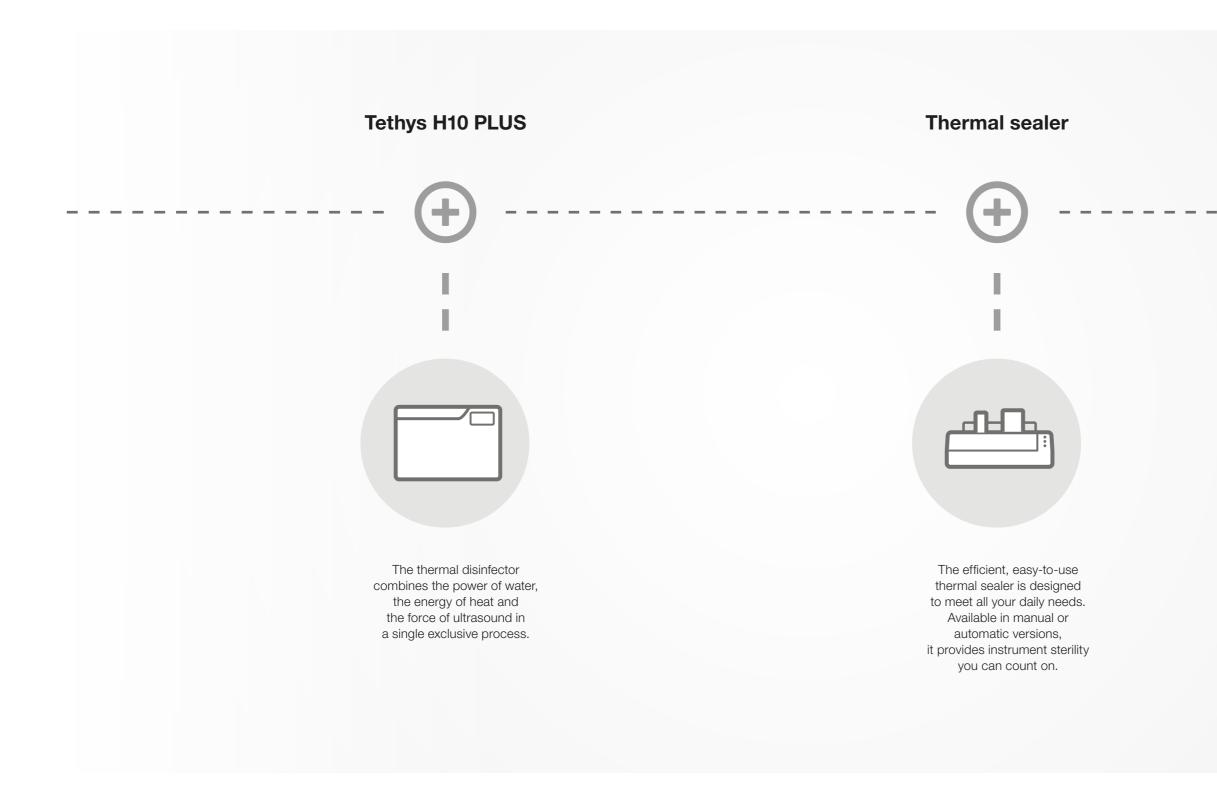


## The "evolved" process with Tethys H10 PLUS.

#### Three partners for perfect sterilization.

The three-stage reconditioning process with the Tethys H10 Plus thermal disinfector, thermal sealer and steam sterilizer, makes the user's work simpler, faster and safer.

The process is a synergic one, is completed in a few steps and gives unprecedented results.







The intelligent sterilizer that is an absolute must.