

Why is sterilization necessary?

Tattoo and Piercing professionals and their clients are exposed to a wide variety of microorganisms (bacteria, viruses, fungi, prions) that can cause contagious infectious diseases, mainly as a result of the use of sharp or cutting instruments and permanent contact with potentially contaminated body fluids. In addition, both professional staff and clients may be carriers of pathogenic microorganisms, so a variety of methods and protective measures must be adopted in order to prevent cross infection.

One of the procedures contemplated in the standards regarding Biosafety in Tattoo-Piercing Studios with the aim of cutting the risk of contagious infectious diseases being transmitted through blood and other oral secretions, is the elimination of microorganisms from the inanimate objects destined for client care. This process is known as **Sterilization**, and one of the main ways it is carried out by means of **humid heat** sterilization using the **AUTOCLAVE**.

With regard to autoclave sterilization, the most important parameters to take into consideration are **time**, **temperature**, **pressure** and **steam quality**. If the steam is not dry saturated, i.e. entirely free of water, the risk is that the sterilization process may be carried out at high temperatures, but using steam that contains very little heat energy. Only saturated steam is able to guarantee the transmission of sufficient heat energy to guarantee proper, efficient sterilization.

Cycles available

CYCLE	TIME	TEMPERATURE
134°C Hollow	56 min	134°C
121°C Hollow	70 min	121°C
134°C Solid	45 min	134°C
121°C Solid	60 min	121°C
134°C Fast Solid	33 min	134°C
134°C Wrapped	46 min	121°C
121°C Wrapped	28 min	134°C
134°C Universal B	35 min	134°C
121°C Universal B	55 min	121°C
134°C Prion	70 min	143°C

**TÉCHNICAL INFO****Technical information**

Chamber volume	22 Lt (17000cc)
Tray dimensions	28,5 x 19 cm
Power supply	230 V AC
Frequency	50/60 Hz
Max. Power	2300 VA
Water Conductivity	≤ 15μS/cm
Water tank volume	3,5 Lt
Ambient temperature	Entre 5°C y 40°C
Relative humidity	Entre 30% y 75%
Sterilization temperature/pressure	121°C / 1,0 -1,3 Bar 134°C / 2,1 – 2,3 Bar
Running Noise	dB (A) < 80 dB*
Packaging	Size of cartoon box: 78 x 60 x 54 cm
Certificates available	CE mark issued by the ITC in the Czech Republic SOLE Class B autoclave is compliant with the Medical Devices Directive
Risk Class	Class IIA laboratory medical device
Standards applied	EN 13060+A2:2010 EN 61010-1, EN 61010-2-041 EN 61326-1
Registered with the Italian Ministry of Health	Registration Number:1002527/R 1002530/R Classification: CND Z12011305 Nomenclature: GMDN 38671