
NSK
2.10 Bar
Vacuum
Sterilize
Dry
Ready
Class B
134°C
5 min
1.UNIVERSAL
iClave plus
1. UNIVERSAL
2. DELICATE
3. FLASH
4. SMALL LOAD
5. PRION
6. CRITICAL 134°C
7. CRITICAL 121°C

AUTOCLAVE

iClave plus

More Safety, More Capacity

Optimizing Handpiece Performance with The Long-Awaited Debut of NSK's Autoclave Series

Even the best handpiece means nothing if you cannot use and decontaminate it safely. NSK leveraged the advanced know-how it has gained as a trusted global handpiece manufacturer to realize the potential of a handpiece friendly autoclave through the launch of the long awaited iClave series.

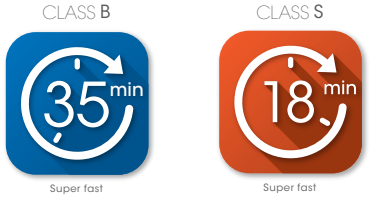
Deploying a Copper Chamber to Match The Advanced Class B Cycle Sterilization Capacity and Efficiency Standards

Air turbines, contra-angles, and other dynamic dental instruments consist of high-precision micro mechanisms and therefore benefit from careful sterilization to maintain performance. NSK chose to use a highly conductive copper chamber to satisfy Class B, Europe's strictest sterilization standard. The system delivers outstanding efficiency despite its large capacity.

50% More Capacity Than Conventional Autoclaves

The iClave plus can fully use its 17.5 Liter capacity because it maintains even temperatures throughout the autoclave chamber and constantly controls the surface temperature. The iClave plus offers 50% more sterilization space than a conventional stainless steel chamber of the same size, ensuring greater safety by reducing instrument overcrowding.

NSK Autoclave Benefits Include Combining High Heat Conductivity of Copper Chamber with Proprietary Heating System

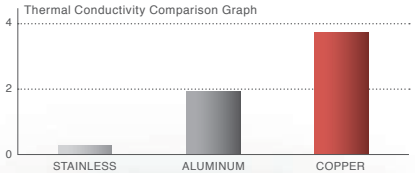


COPPER CHAMBER

Highly Thermal Conductive Copper Chamber with Even Temperatures

Using copper to construct the chamber gives 17.7 times more heat conductivity than stainless steel. The copper chamber retains even internal temperature levels throughout despite its large capacity.

Thermal Conductivity Differences of Materials



Copper's heat conductivity is 1.9 times and 17.7 times higher than that of aluminium and stainless steel, respectively.

ADAPTIVE HEAT SYSTEM

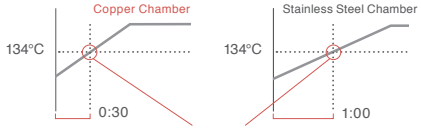
Advanced Heating System Leveraging Excellent Thermal Conductivity

NSK's innovative heating system optimizes the high heat conductivity of copper. Enveloping the copper chamber is a special heater which is also used in satellites, incorporating electro-thermal material embedded in silicone to heat the entire chamber evenly without heat loss.

TEMPERATURE CHARACTERISTICS

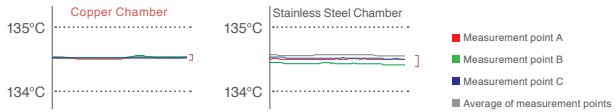
In temperature measurements at three points inside the chamber, the copper model reached 134°C, the standard sterilization temperature, in about half the time of a stainless steel counterpart. There were no temperature variations at the three points measured in the copper chamber.

Comparing Temperature Gains of Copper and Stainless Steel Chambers



Specified temperature reached faster

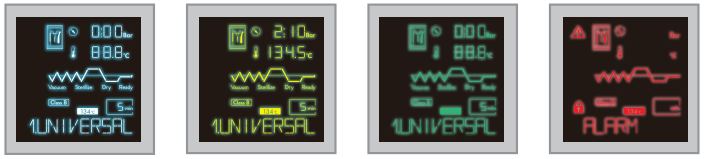
Comparing Temperature Differences of Copper and Stainless Steel Chambers



Less temperature variation within chamber

User-friendly, Easy to Read Operating Panel

With a sophisticated design and excellent visibility, the panel is easy to operate and maintain, with colors changing according to conditions, enhancing sterilization reliability.



Selection screen | During operation | Sterilization complete | Error

Sterilization Cycle Data Recording

All sterilization cycles are recorded on a USB flash drive, and no special software is required to view and print records of all cycles. The system records all relevant cycle parameters against a unique date and time stamp.

Bacterial Filter for Greater Safety

The iClave plus ventilates air through a bacterial filter during the drying phase, eliminating the possibility of re-contamination.

Designed to Boost Product Reliability

Consistent temperatures inside the chamber eliminate fluctuation stresses and reduce the risk of problems. NSK initially reviewed product reliability to ensure safe treatment. There are three thermometers to control temperatures in the iClave plus. An annual maintenance service alert helps prevent breakdowns and boosts product reliability.

Stainless Steel Body Enhances Durability

The stainless steel body work, which is rare for an autoclave these days, makes iClave plus more robust. Together with the copper chamber it delivers outstanding durability.

Constantly Monitoring Working Parameters for Safe Operation

The process evaluation system constantly monitors pressure, temperature, water quality and steam. Additional features include cycle counter, altitude set-up, maintenance monitoring, triple safety lock, auto switch-off, and double water tank.

iClave plus

iClave plus Complete Set

MODEL	ORDER CODE
iClave plus 230V	**Y1003077**

EN13060 Class B

Technical characteristics

- External dimensions : W 445 x D 584 x H 438 (mm)
- Chamber dimensions : ø240 x 384 (mm)
- Chamber capacity : 17.5 Liter
- Net weight : 45 kg
- Maximum power consumption : 1,920 W
- Supply Voltage CE : AC 230 V - 50/60 Hz
- Air expulsion system : Vacuum pump 1, 3, 4 vacuum
- Max Load : 4 kg (solid), 1.5 kg (porous)

External dimensions exclude protrusions.

	PROGRAMS	PARAMETERS			CLASS
1	UNIVERSAL	134°C	5 min	3 vacuum	B
2	DELICATE	121°C	20 min	3 vacuum	B
3	FLASH	134°C	3 min	2 vacuum	S
4	SMALL LOAD*1	134°C	4 min	3 vacuum	B
5	PRION	134°C	18 min	3 vacuum	B
6	CRITICAL 134°C	134°C	5 min	4 vacuum	B
7	CRITICAL 121°C	121°C	20 min	4 vacuum	B
8	SPECIAL	105-135°C	3-90 min	2-4 vacuum	-

• Bowie & Dick : 134°C / 3.5 min / 3 vacuum • Vacuum test : 20 min
*1 small load : included hollow instruments type A and B (MAX 0.5 kg)

OPTIONAL ACCESSORIES

Sealer Newseal Plus

With high output, easily and automatically seals envelopes before sterilization.

MODEL	ORDER CODE
Sealer Newseal Plus	**Z1279001**

- Self adjusting sealing from 10 mm
- Retracting blade cutter • Reel holder
- Visual and acoustic seal indication
- Pre-set for wall attachment

Regenerating Tabs

A special effervescent tablet for cleaning the chamber. Placed inside the chamber, it removes limescale and dirt residue from the boiler upon activating the cycle.

MODEL	ORDER CODE
Regenerating Tabs	**0230050**

Barcode Label Writer

Increases traceability levels by combining sterile instruments and patients.

MODEL	ORDER CODE
Barcode Label Writer	**Z1281001**

Kit Wifi

Device for storing the sterilization cycles' data on an external memory and send to any PC, tablet or smartphone via WIFI connection.

MODEL	ORDER CODE
Kit Wifi	**599011**

Helix Test

Helix Test allows you to verify steam penetration into hollow instruments. Includes a tester and 250 indicators.

MODEL	ORDER CODE
Helix Test	**990005**

Purity

High quality water is essential to improve sterilization quality. We offer an optional automatic water supply device with a desalination feature.

MODEL	ORDER CODE
Purity	**Z1284001**