iClave

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.
iClave plus

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

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.

Faster Sterilization
The copper chamber and adaptive heat system allows sterilization in 18 and 35 minutes under Class S and B standards, respectively. (Including drying phase.)

More Efficient Drying Phase
In a conventional chamber, uneven temperatures cause condensation inside instruments, reducing drying efficiency. This issue is almost non-existent in the iClave plus when temperatures rise or fall.

More Economical and Environmentally Friendly
A key factor in the greater efficiency of the iClave plus is that it can sterilize more instruments at a time. The iClave plus also lowers environmental impact because it consumes less electricity and water.

Gentle Handpiece Sterilization
Consistently even internal temperatures resulting from the use of a copper chamber and the adaptive heat system make it possible to control steam flow and eliminate heat fluctuations. With less thermal impact, sterilization of air turbines, contra-angles and other instruments is gentler and safer.
Safety & Durability

Advanced Safety and Durability Through User-friendly Functions

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.

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 and two in the iClave mini. 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.

Vacuum Sterilization for All Types of Instrument
A vacuum pump removes air from the chamber and handpiece cavities before sterilization.
iClave plus Complete Set
MODEL iClave plus 230 V ORDER CODE Y1003077

An 17.5 Liter Model Complying with the Top Sterilization Standard
Employing a copper chamber to minimise internal temperature fluctuations. Efficiently sterilizing more instruments while minimising wasted space.

Technical characteristics
- External dimensions : W 445 x D 585 x H 440 (mm)
- Chamber dimensions : ø240 x 384 (mm)
- Chamber capacity : 17.5 Liter
- Net weight : 47 kg
- Maximum power consumption : 1,920 W
- Supply Voltage CE : AC 230 V - 50/60 Hz
- Air expulsion system : Vacuum pump 2, 3, 4 vacuum
- Max Load : 4 kg (solid), 1.5 kg (porous)

OPTIONAL ACCESSORIES

Sealer Newseal Plus
With high output, easily and automatically seals envelopes before sterilization.
- Self adjusting sealing from 10 mm
- Retracting blade cutter
- Reel holder
- Visual and acoustic seal indication
- Pre-set for seal attachment

MODEL Sealer Newseal Plus
ORDER CODE Z1279001

USB Data Logger
Store all cycle information directly onto a file without a paper report. The 2 GB USB drive, supplied with the USB LOG interface, allows storage of more than 10,000 cycles.

MODEL USB Flash drive (2.0 GB)
ORDER CODE Z1280001

Barcode Label Writer
Increases traceability levels by combining sterile instruments and patients.

MODEL Barcode Label Writer
ORDER CODE Z1281001

Helix Test
Kit to test steam penetration in handpiece cavities.

MODEL Helix Test
ORDER CODE Z1283001

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

MODEL Purity
ORDER CODE Z1284001
A handpiece autoclave from a handpiece manufacturer, complying with Europe’s Class S sterilization standard. The iClave mini sterilizes even the invisible parts of handpieces and is completely portable to use anywhere.

**Small Enough to Fit in Any Space**
The iClave mini weighs only 15.5 kg. Just plug it in and start sterilizing. Its compact and elegant design makes it an ideal fit for any clinic interior.

**Effective Sterilization of Hollow Instruments**
The iClave mini complies with Europe’s Class S sterilization standard. It repeatedly deaerates to sterilize even the inside of a handpiece.

**Fast and Compact But with Large Capacity**
The new direct-heating technology around the 2.5 Liter chamber aims to work and perform like the combination of copper chamber and adaptive heat system. iClave mini is compact in size yet large in capacity while at the same time running fast and efficient cycles.

**User-friendly, Easy to Read Operating Panel**
With a sophisticated design and excellent visibility, the iClave mini panel is easy to operate and maintain, enhancing sterilization reliability.

**A User-friendly Design**
The iClave mini is designed with ease of use and day-to-day maintenance in mind. The smooth, seamless design inside and out as well as with the design of the control panel make it extremely user friendly in every respect.
iClave mini Complete Set

Technical characteristics

- External dimensions: W 210 x D 320 x H 360 (mm)
- Chamber dimensions: ø130 x 200 (mm)
- Chamber capacity: 2.5 Liter
- Net weight: 15.5 kg
- Maximum power consumption: 750 W
- Supply Voltage CE: AC 230 V - 50 Hz
- Air expulsion system: Pressure deaeration
- Max Load: 1 kg (solid), 0.5 kg (porous)

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External dimensions exclude protrusions.