AUTOMATIC SYSTEM FOR CLEANING, DISINFECTING AND LUBRICATING ROTARY INSTRUMENTS

iCare+
### Technical characteristic

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions (LxPxH)</td>
<td>355x400x405 mm</td>
</tr>
<tr>
<td>Capacity</td>
<td>Holds up to 4 instruments</td>
</tr>
<tr>
<td>Net Weight</td>
<td>24 kg</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230 V - 50 Hz</td>
</tr>
<tr>
<td>Supply Pressure</td>
<td>3.5 bars - 6.0 bars</td>
</tr>
<tr>
<td>Programs</td>
<td>3</td>
</tr>
<tr>
<td>USB Port</td>
<td>•</td>
</tr>
<tr>
<td>Automatic detection of cleaning and disinfection liquids</td>
<td>•</td>
</tr>
<tr>
<td>Control volume remaining products</td>
<td>•</td>
</tr>
<tr>
<td>Average Cycle Duration (cleaning, lubricating, oiling of 4 instruments)</td>
<td>10min</td>
</tr>
<tr>
<td>Capacity of oil tank</td>
<td>500ml</td>
</tr>
<tr>
<td>Seize of cleaning and disinfection liquid bottles</td>
<td>500ml</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Complete System iCare+</th>
<th>REF S103001</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>Pack n-clean (6 x 500ml)</td>
<td>REF ACL600</td>
</tr>
<tr>
<td>MODEL</td>
<td>Pack n-cid (6 x 500ml)</td>
<td>REF ACD600</td>
</tr>
<tr>
<td>MODEL</td>
<td>Starter Pack (Pack n.cid (6 x 500ml), Pack n-clean (6 x 500ml) and Oil (1x1 litre))</td>
<td>REF S12001</td>
</tr>
<tr>
<td>MODEL</td>
<td>Oil (bottle of 1 litre)</td>
<td>REF Z016-117</td>
</tr>
</tbody>
</table>

VISIT: [www.icareplus-nsk.com](http://www.icareplus-nsk.com)
Perfect instrument care

All rotary instruments used for dental care need to be cleaned, disinfected and lubricated. The correct and appropriate treatment of high and low speed rotary instruments is essential to ensure the safety of both patient and practitioner.

Conscious of this need, and after many years of research, NSK has developed iCare+.

iCare+ allows cleaning and disinfection of up to 4 high and low speed rotary instruments made either by NSK or most other brands available on the market. During the cycle the instruments are being cleaned and disinfected internally and externally prior to being lubricated. The complete cycle in less than 10 minutes.

Advantages

- Autonomy
- Speed
- Efficiency
- User friendly
- Safety
- Validation
- Traceability
- Universal couplings (instruments)

Two products which have been developed specifically for iCare+

iCare+ works in association with n.clean, c.cid, and n.oil. These products are specially designed for rotary instrumentation.

Actions

n.clean, the cleaning solution and rinsing detergent has a bactericidal and fungicidal effect. It prevents build up of proteins on the internal and external surfaces of the instruments.

The disinfection before the sterilization is achieved by using n.cid: A disinfecting solution with bactericidal, fungicidal and virucidal properties which is effective against enveloped viruses as well as Adeno virus non-enveloped. Including:

- TB, MRSA
- Candida albicans
- HBV, HCV, HIV, herpes simplex, influenza, H1N1 + H5N1

n.oil: Especially formulated oil for the maintenance and lubrication of rotary instruments.

n.clean 500ml bottle, n.cid 500ml bottle, n.oil 500ml bottle

Cleaning, disinfecting, lubricating 4 instruments in less than 10 minutes!
A proven combination
Many tests have been conducted under the same conditions, including tests with non-NSK instruments. These results were as convincing as those of the NSK instrument range.

To guarantee the desired result it is essential to use iCare+ in conjunction with n.clean and n.cid.

In accordance with norms EN ISO 15883 and EN ISO 15883-5 in force in the countries of the European Union, the tests were conducted under conditions of severe contamination with sheep blood, protamine, bacteria and yeast. The proteins were reduced far below the limit of 100 micrograms per instrument and it was recorded that the level of microbial contamination was reduced to higher than 5 log steps for all instruments.

European Standards
Numerous tests were carried out in the following European laboratories: The Dr Brill Institute and Microsept Laboratory.
The tests show that the combination of iCare+, n.clean and n.cid disinfection, by far exceed the results of manual cleaning.

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TREATMENT CYCLES

1. Complete treatment: cleaning, disinfection and lubrication
2. Selective treatment: cleaning and lubrication
3. Basic treatment: lubrication only

- Select the number of instruments
- Chose the required cycle
- Press the start button
- Watch the cycle progress

PROGRAMS

3 different programs

1. Complete treatment:
   - cleaning, disinfection and lubrication
2. Selective treatment:
   - cleaning and lubrication
3. Basic treatment:
   - lubrication only

iCare+ keeps you informed throughout the cycle
iCare+ indicates the progress of the process through LEDs on the control panel and the light inside the processing chamber:
- yellow for cleaning
- white for the disinfection
- blue for the lubrication
- green to indicate that the cycle is completed

Bottle of n.clean of 500ml
Bottle of n.cid of 500ml
Bottle of maintenance oil 1 litre

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**VALIDATION**

**Cleaning, disinfection, lubrication**
During every stage of its cycle iCare+ ensures that all internal surfaces, rotating components, spray air and spray water lines are exposed to the correct amounts of n.cid and n.clean for the correct length of time to guarantee optimum cleaning and disinfection.

At the same time a fine mist spray of n.cid and n.clean cleans the instruments externally. During every cycle the exposure time is precisely monitored and maintained to guarantee optimum efficiency of the products n.cid and n.clean.

Together with n.cid and n.clean iCare+ addresses the increasing demand for thorough and reliable disinfection and cleaning of rotary dental instruments.

**Cycle validation**
To guarantee compliance iCare+ is equipped with a micro processor which monitors in real time the exposure and dosage of the cleaning and disinfection agents to meet the parameters prescribed in [EN ISO 15883].

At the end of each satisfactorily completed cycle a green LED illuminates to show the operator that the instruments have been effectively cleaned, disinfected and lubricated, according to the selected cycle.

To monitor and record cycle details iCare+ is equipped with a USB port to enable the download and storage of cycle parameters.

**TRACEABILITY**

**Internal tracking software**
At the same time as the validation parameters are being recorded the internal tracking software allocates a serial number to each data set: Date, time, instrument serial number, cycle validation, optional cycle name.

**User friendly interface**
The operator can easily access and organise all the stored information to allow monitoring cycle records.