NC SERIES
Horizontal Steam Sterilizers
NC 300/430/570/710
HORIZONTAL STEAM STERILIZERS

Our continuous investments in research and development have enabled us to develop our horizontal steam sterilizer series with innovative Air Cooling System.

The reliability, performance, ease of use and safety features of NC Series Horizontal Steam Sterilizers optimize the steam sterilization process and they are convenient for steam sterilizing packed or unpacked surgical and dental instruments, operation linen, glass, plastic, rubber and silicon materials, infusion liquids, microbiological cultures and medical waste.

Double door versions are ideal for central sterilization centres having dirty and clean sides.

RUGGED AND RELIABLE DESIGN

• The chamber, steam jacket, door and the steam generator made of 316L stainless steel and they are tested according to EN285, European Standard for Large Steam Sterilizers and PED 2014/68/EC Pressure Equipment Directive.
• Efficient insulation for the chamber, door and steam generator
• Pneumatically controlled sliding door
• Steam driven chamber gasket made of silicon as single piece
• Carefully chosen high quality valves, sensors and transmitters for a problem free and safe operation
• Pneumatically controlled valves used in the steam lines which have longer service life than electrically operated valves.
• Steam jacket surrounding the chamber for homogenous heating and preventing condensation on the loads.
POWERFUL AND EFFICIENT VACUUM

• High capacity and silent water ring pump which has low energy and water consumption
• Pre-vacuum by pulsating steam and vacuum in sequential pulses
• Post-vacuum for efficient drying

INNOVATIVE AIR-COOLING SYSTEM TO SAVE NATURAL SOURCES

• Steam Sterilizers have high operational cost. Besides the power consumption, high amount of water is used to produce steam and to condense and cool down the steam at the end of the cycle.

• Steam Sterilizer with a chamber capacity of 500 litres, has approximately 500 litres water consumption per cycle in a classic system.

• Different than the classical method to condense and cool down the steam, an innovative system is used in NC series Steam Sterilizers: AIR-COOLING. The steam is condensed and cooled down while passing through a condenser which is cooled by ambient air. Thus, there is no water consumption to condense and cool down the steam for NC Series Horizontal Steam Sterilizers
RELIABLE AND POWERFUL CONTROL SYSTEM

- Steamart™ Microprocessor control system with 800x480 pixels 7” colourful touch screen
- Icons making the operations easier for immediate understanding
- Displayed parameters during sterilization cycle:
  - Chamber temperature and pressure
  - Jacket temperature and pressure
  - Generator temperature and pressure
  - Gasket pressure
  - Name of operating program
  - Program phase
  - Graphic of temperature and pressure
  - Date and Time
  - Number of operated programs in the same day
  - Total number of operated programs

EASY STERILIZATION

- Seven pre-set programs which guarantee safe sterilization of the treated material

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Temperature</th>
<th>Sterilization Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrapped porous materials</td>
<td>134°C</td>
<td>7 minutes</td>
</tr>
<tr>
<td>Sensitive materials</td>
<td>121°C</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Rubber materials</td>
<td>125°C</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Heavy wrapped materials</td>
<td>134°C</td>
<td>7 minutes</td>
</tr>
<tr>
<td>Unwrapped materials</td>
<td>134°C</td>
<td>4 minutes</td>
</tr>
<tr>
<td>Prion</td>
<td>134°C</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Gravity</td>
<td>121°C</td>
<td>25 minutes</td>
</tr>
</tbody>
</table>

- 50 custom made programs:

- Programmable parameters for custom made programs:
  - Sterilization Temperature: 121°C – 125°C – 134°C – 136°C
  - Sterilization Time: 01 - 60 minutes
  - No. of pre-vacuum: 1 - 4
  - Drying time: 0 - 60 minutes

- Special liquid program at 121°C with 1-60 minutes programmable sterilization time

TEST PROGRAMS

- Vacuum leakage and Bowie & Dick test programs
FULL TRACEABILITY AND REMOTE ACCESS

- Operating parameters can be tracked graphically against time
- Internal memory which stores the records of last 1000 cycles
- Memory for the last 100 failures
- Cycle counter
- USB port to record the operated cycles in the memory to a memory stick
- PC connection through USB / RS 485 port
- Ethernet port for remote access through internet by means of optional NüveCloser™ software
- NüveCloser™ allows to access operating parameters, memory, failure history and other technical parameters
- Panel type printer to keep the records of the sterilization cycle

PROCESS EVALUATION AND SELF DIAGNOSTIC SYSTEM

- Compare the preset values with operating parameters using the process evaluation system
- When the operating parameters do not match the preset values, the sterilization cycle is cancelled and the user is warned
- Comprehensive self-diagnostic system for 19 possible failures such as power failure, heater failure, low water level, high pressure and temperature, sensor failure
- Help menu with the description of the failures
SAFETY OVER STANDARDS

- Authorization key to operate the steam sterilizer
- Password protected control system, service and calibration menu
- The door stops automatically in case of an obstruction on the door closing direction.
- The door is prevented from opening unless the safe unloading temperature has been reached and pressure has dropped to atmospheric pressure at the end of the sterilization cycle.
- The sterilization cycle can only be started if the steam pressure under the gasket is adequate for the operations.
- Manual control system for steam discharge, air intake, gasket vacuum and door opening in case of any failure
- Manometers for chamber, jacket, gasket and generator to easily follow the pressure levels
- Emergency stop button
- Colour of the display changes to red in case of any alarm condition along with an audible alarm
- Remote failure diagnostic by means of NüveCloser™ software
- Sending e-mails up to five e-mail addresses with the details of failure
- Optional AlerText™ SMS alarm system for ultimate security
- Safety valves against over pressure in the chamber, jacket and steam generator
- HEPA filter at air intake line
- Chamber and generator manufactured according to PED 2014/68 EC
- Validation port as standard
DOUBLE DOOR VERSIONS

- NC 430, NC 570 and NC 710 are available as double door
- 4,3” colourful LCD display for the clean side
- Displayed parameters during sterilization cycle:
  - Chamber temperature and pressure
  - Name of the operating program
  - Phase of the operating program
  - Total elapsed time
  - Elapsed time of the phase
- Both doors cannot be opened at the same time and if the sterilization fails, the door of the clean side cannot be opened.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Chamber Capacity, litres</th>
<th>NC 300</th>
<th>NC 430</th>
<th>NC 430D*</th>
<th>NC 570</th>
<th>NC 570D*</th>
<th>NC 710</th>
<th>NC 710D*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamber Capacity, litres</td>
<td>300</td>
<td>430</td>
<td>430</td>
<td>570</td>
<td>570</td>
<td>710</td>
<td>710</td>
</tr>
</tbody>
</table>

### Capacity For STU
1 STU 300x600x300 mm (WxDxH)

<table>
<thead>
<tr>
<th>Capacity For STU</th>
<th>4 pcs.</th>
<th>6 pcs.</th>
<th>8 pcs.</th>
<th>10 pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterilization Temperatures</td>
<td>121°C / 125 °C / 134 °C / 136°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No of Preset Programs</td>
<td>7 + 1 Liquid Program + 1 Drying</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No of Free Programs</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Programs</td>
<td>Vacuum Leakage and Bowie &amp; Dick</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Vacuum Level</td>
<td>100 mbar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control System</td>
<td>Steamart™ Programmable Microprocessor Control System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>800x480 pixels 7” Colourful Touch Screen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chamber Material</td>
<td>316L Stainless Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jacket Material</td>
<td>316L Stainless Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steam Generator Material</td>
<td>316L Stainless Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Material</td>
<td>304 Stainless Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>STU and STU Carrier, 200 lt. Water Tank</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>400 V 50/60 Hz, 3 phases + N + G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>29 kW</td>
<td>38 kW</td>
<td>50 kW</td>
<td>62 kW</td>
</tr>
</tbody>
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<th>38 kW</th>
<th>50 kW</th>
<th>62 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamber Dimensions (WxDxH) mm</td>
<td>635x722x655</td>
<td>635x1034x655</td>
<td>635x1371x655</td>
<td>635x1401x655</td>
</tr>
<tr>
<td>External Dimensions (WxDxH) mm</td>
<td>1140x1290x1910</td>
<td>1140x1330x1910</td>
<td>1140x1410x1910</td>
<td>1140x1740x1910</td>
</tr>
<tr>
<td>Packing Dimensions (WxDxH) mm</td>
<td>1560x1330x2200</td>
<td>1450x1400x2100</td>
<td>1450x1400x2100</td>
<td>1230x1820x2100</td>
</tr>
<tr>
<td>Net / Packed Weight kg.</td>
<td>860 / 990</td>
<td>980 / 1035</td>
<td>1140 / 1165</td>
<td>1280 / 1460</td>
</tr>
<tr>
<td></td>
<td>1120 / 1245</td>
<td>1260 / 1365</td>
<td>1420 / 1595</td>
<td></td>
</tr>
</tbody>
</table>

* Double door versions

### ACCESSORIES

- **A 08 166** Loading cart NC 300
- **A 08 162** Loading cart NC 430
- **A 08 167** Loading cart NC 570
- **A 08 187** Loading cart NC 710
- **A 08 080** Water softening unit
- **A 08 102** Air compressor 10 bar, 50 lt.
- **A 08 192** AlerText™ GSM alarm module
- **A 08 201** NuveCloser™ Software CD

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ISO 9001: 2008
ISO 13485: 2012