All aspects of life and work appear to be in an almost constant state of flux at the present time. To make an investment in an object with long-term value, therefore, seems paradoxical when short-lived trends are the norm. The ENDOMAT® SELECT from KARL STORZ thus marks the beginning of a new era of sustainability. In one interdisciplinary system, the unit combines ease of use and a clearly arranged user interface with a compact exterior while allowing uncomplicated combination with existing products – thereby adding fresh momentum to the OR.

ENDOMAT® SELECT is a single roller pump for the irrigation or suction of fluids during surgical and diagnostic procedures. The pump can be equipped with various software modules so that the unit can be used for multiple disciplines in various rooms according to the respective indication.

This technology offers the customer a wide range of customized solutions. Such diversity of application is indeed a market revolution in medical technology. The benefit for the user is twofold: Resource conservation and cost efficiency.
UP 210  ENDOMAT® SELECT, suction or irrigation pump, incl. mains cord, power supply 100-240 VAC, 50/60 Hz
UP 602  HYSTEROSCOPY Software, license, allows selection of the procedure “HYS”
UP 604  UROLOGY Software, license, allows selection of the procedures “CYST”, “PCN”, “URS”, “CALCUSON” and “RES”
UP 605  ARTHROSCOPY Software, license, allows selection of the procedures “KNEE”, “HIP”, “SHOULDER” and “SMALL JOINTS”
UP 606  ENT/NEURO Software, license, allows selection of the procedure “CLEARVISION®”, for use with ENDOMAT® SELECT UP 210
UP 610  ADVANCED Package, software, license, extends functions of installed software packages, for use with ENDOMAT® SELECT UP 210

CASSETTE TUBING SET – Accessories
Special Features:
- Easy and fast insertion thanks to one-handed installation of the cassette tubing set
- Coded tubing sets for clear identification
- Respective specialty color displayed on the packaging

The following overview shows which tubing set is used for each application:

**IRRIGATION**
Flow Control (FC)  Pressure Control (PC)

**SUCTION**
Direct Suction (DS)  Suction via CALCUSON bottle

**LENS IRRIGATION**
CLEARVISION®
CASSETTE TUBING SET for single use
The following tubing sets for the irrigation and suction of fluids are available for single use:

- **031523-10** Tubing Set, irrigation, PC¹, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210
- **031524-10** Tubing Set, irrigation, FC², sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210
- **030647-10** Tubing Set, suction, DS³, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210
- **031647-10** Tubing Set, suction, BS⁴, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210
- **031529-10** Tubing Set, irrigation, CV⁵, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210

Explanation for the abbreviations used above:
1. PC – Pressure-regulated irrigation
2. FC – Flow-regulated irrigation
3. DS – Direct suction
4. BS – Suction via CALCUSON bottle
5. CV – CLEARVISION® irrigation

For use in Gynecology
Thanks to thinner and, therefore, more atraumatic optical systems, the ENDOMAT® SELECT unit particularly supports interventions in clinical outpatient departments or office settings.

KARL STORZ offers the following software package for gynecology:

- **Diagnostic and operative hysteroscopy (HYS)**
  The ENDOMAT® SELECT enables reliable, pressure-controlled dilation of the uterine cavity. The unit can be used in the operating room as well as the office setting or the clinical outpatient department. It allows a constantly diluted and stable uterine cavity to be maintained during the entire intervention thanks to its extreme ease of use. At the same time, manual adjustment of the pressure settings is possible at all times.

**Accessories:**

<table>
<thead>
<tr>
<th>For hysteroscopy</th>
<th>UP 602 HYSTEROSCOPY Software, license, allows selection of the procedure “HYS”, for use with ENDOMAT® SELECT UP 210</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>031523-10</strong></td>
<td>Tubing Set, irrigation, pressure-controlled, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

Further accessories can be found in the Gynecology catalog.
For use in Urology

The ENDOMAT® SELECT accommodates the wide range of applications in the field of urology, allowing seamless integration into existing systems and providing pressure-regulated irrigation for diagnostic and operative interventions.

Intracavity pressure can be increased as necessary via activation of the footswitch or touch screen. This increase in pressure can be adjusted on the display in terms of percentages. However, this does not exceed the value of 150 mmHg.

- **Cystoscopy**

  ENDOMAT® SELECT provides reliable irrigation for cystoscopy for greater diagnostic accuracy.

- **Percutaneous Nephrolithotomy**

  ENDOMAT® SELECT ensures a consistently good view during percutaneous nephrolithotomy thanks to the fluid administered and continuous fluid exchange.

- **Uretero-Renoscopy**

  In uretero-renoscopy (rigid as well as flexible), the ENDOMAT® SELECT ensures that the operating surgeon’s view during lithotripsy is not impaired by stone dust thanks to the pressure-regulated irrigation of fluid.

- **Resection**

  During resection (TUR-B/P), the ENDOMAT® SELECT ensures a thorough removal of tissue chips. The values can be adjusted at the unit.

- **Removal of kidney, bladder, and ureter stones in conjunction with CALCUSON**

  The combined use of the ENDOMAT® SELECT and CALCUSON provides successful, fast and efficient suction. This enables time-saving lithotripsy thanks to the direct aspiration of stone fragments. The pump and the CALCUSON generator are conveniently activated via the footswitch.
## Accessories for use in Urology:

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Image</a></td>
<td>UP 604</td>
<td>UROLOGY Software, license, enables the selection of the procedures &quot;CYST&quot;, &quot;REST&quot;, &quot;URS&quot;, &quot;CALCUSON&quot; and &quot;PCN&quot;, for use with ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

### For cystoscopy, percutaneous nephrolithotomy and ureterorenoscopy

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Image</a></td>
<td>031523-10*</td>
<td>Tubing Set, irrigation, PC, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

### For resection in TUR-B/TUR-P

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Image</a></td>
<td>030647-10*</td>
<td>Tubing Set, suction, direct suction, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

### For lithotripsy with CALCUSON

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Image</a></td>
<td>031647-10*</td>
<td>Tubing Set, suction, via bottle, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td><a href="#">Image</a></td>
<td>20701070</td>
<td>Control Cable, connectors 2x LEMO 5-pole 0°, length 100 cm, for transmission of footswitch control signals between CALCUSON 27610001 and ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

Further accessories can be found in the Urology catalog.
For use in Arthroscopy

In the field of arthroscopy, the ENDOMAT® SELECT regulates the irrigation of fluids according to the latest standards. A sophisticated pump system allows steady, clear imaging during the entire intervention.

ENDOMAT® SELECT for arthroscopy communicates effectively with the KARL STORZ shaver unit UNIDRIVE® S III ARTHRO. It also regulates the pressure and the flow rate to provide optimal imaging while maintaining joint distension. An optional feature is the BOOST mode that can be activated at any time. This provides a temporary increase in pressure and irrigation inside the joint in order to enable a clear visualization.

Interventions for the following indications are integrated in the arthroscopy package:

- Knee
- Hip
- Shoulder
- Small joints

In combination with UNIDRIVE® S III ARTHRO:

For more information on use in combination with the UNIDRIVE® S III ARTHRO, please refer to the ENDOMAT® SELECT instructions for use.

Further accessories can be found in the Arthroscopy catalog.

Accessories:

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>UP 605</td>
<td>ARTHROSCOPY Software, license, allows selection of the procedures “KNEE”, “HIP”, “SHOULDER” and “SMALL JOINTS”, for use with ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>031523-10*</td>
<td>Tubing Set, irrigation, pressure-controlled, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
<td></td>
</tr>
<tr>
<td>UP 006</td>
<td>Control Cable, connectors 1x LEMO 5-pole 0° and 1x LEMO 12-pole 0°, length 100 cm, for transmission of footswitch control signal between UNIDRIVE® S III ARTHRO SCB and ENDOMAT® SELECT UP 210</td>
<td></td>
</tr>
<tr>
<td>20014130</td>
<td>One-Pedal Footswitch, digital, one-stage</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>28723001-1</td>
<td>UNIDRIVE® S III ARTHRO SCB, with color display, touch screen operation, two motor outputs, with integrated SCB module, power supply 100-120/230-240 VAC, 50/60 Hz, including: SCB Connecting Cable, length 100 cm, Mains Cord, Instruction Manual</td>
<td></td>
</tr>
<tr>
<td>28200 DX</td>
<td>DRILLCUT-X® ARTHRO Shaver Handpiece, up to 8000 rpm, for use with UNIDRIVE® S III ARTHRO SCB, as of software status 1.10.</td>
<td></td>
</tr>
<tr>
<td>20016831</td>
<td>Two-Pedal Footswitch, one-stage, for use with POWERSHAVER SL and UNIDRIVE® S III ARTHRO</td>
<td></td>
</tr>
</tbody>
</table>

*Further accessories can be found in the Arthroscopy catalog.
For use in ENT and Endoscopic Skull Base Surgery

To maintain a clear view, the ENDOMAT® SELECT is used in combination with irrigation sheaths from ENT and NEUROSURGERY for rinsing the lens with the CLEARVISION® module.

By activating the first footswitch position, the pump flushes the distal lens with fluid. Continuous oscillation of the pump head draws the drops of liquid away from the lens. When releasing the footswitch, any started cycles are fully completed.

The continuous irrigation mode can be started by activating the second footswitch position, if desired. Liquid is suctioned back into the irrigation sheath when the pedal is released.

### Accessories:

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Flow-controlled CLEARVISION® irrigation</a></td>
<td>UP 606</td>
<td>ENT/NEURO Software, license, allows selection of the procedure &quot;CLEARVISION®&quot;, for use with ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>031529-10*</td>
<td>031529-10*</td>
<td>Tubing Set, irrigation, CV, sterile, for single use, package of 10, for use with ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>200142 30</td>
<td>200142 30</td>
<td>One-Pedal Footswitch, digital, two-stage</td>
</tr>
<tr>
<td>7230 AS</td>
<td>7230 AS</td>
<td>Suction and Irrigation Sheath 0°, outer diameter 4.8 x 6 mm, working length 14 cm, for use with HOPKINS® Telescopes 7230 AA, 28132 AA, TIPCAM® S 3D 7240 AA 3D and 28164 AA 3D as well as ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>7241 AS</td>
<td>7241 AS</td>
<td>Irrigation Sheath 0°, outer diameter 4.8 mm, working length 14 cm, connection facing upwards, for use with TIPCAM® S 3D 7240 AA 3D or HOPKINS® Telescope 7230 AA and ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>7230 AES</td>
<td>7230 AES</td>
<td>Irrigation and Suction Sheath 15°-90°, outer diameter 4.8 mm, working length 14 cm, ENDOCAMELEON® ENT HOPKINS® Telescope 7230 AE, ENDOCAMELEON® NEURO HOPKINS® Telescope 28132 AE and ENDOMAT® SELECT UP 210</td>
</tr>
</tbody>
</table>

For further accessories, please refer to the ENT and NEURO catalogs.
**Advanced Package**

The ADVANCED Package supplies various additional features to increase the number of possible settings within an installed software pack or on the device itself. The following settings can be chosen after installing the ADVANCED Package:

**HYS**  
Flow adjustment during HYS, and URO applications (200/400/600 ml/min)

**ART**  
Flow adjustment during ART applications (1.5/2/2.5 l/min)

**URO**

Adjustment of the duration of pressure increase (boost function) during ART and URO applications within the range of 2-60 seconds.

**Advanced device settings:**
- Height difference: Compensates the height difference between the device and patient
- Display brightness
- Key tone volume
- Boost shut-off delay/duration of pressure increase (ART and URO)
- Choice of pressure unit, mmHg or cm H₂O
- SCB integration

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**Accessories:**

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Order No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP 610*</td>
<td></td>
<td>ADVANCED Package, software, license, extends functions of installed software packages, for use with ENDOMAT® SELECT UP 210</td>
</tr>
<tr>
<td>20090170</td>
<td>SCB Connecting Cable, length 100 cm</td>
<td></td>
</tr>
</tbody>
</table>

* The ADVANCED Package requires at least one further software package.

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It is recommended to check the suitability of the product for the intended procedure prior to use.