Flexible endoscope automated reprocessing system
Safe, efficient and user friendly solutions for reprocessing flexible endoscopes in busy departments
EPW 100 Series
Automated system to assist manual cleaning

EPW assists operators during manual cleaning phase by leak testing endoscopes, flushing and rinsing channels, eliminating the risk of stress induced injuries and providing a permanent record of the process that can be printed, transferred to a USB stick or integrated into SteelcoData.

This system allows total immersion of endoscopes according to most European country guidelines.

- Leak testing
- Elimination of repetitive strain injury risk of flushing and rinsing with a syringe
- Identification of operator and endoscope using barcode
- Traceability of critical parameters of manual cleaning process
- Organic residue testing facility
- Automatic dosing of correct detergent
- Controlled correct pressure and volume during flushing and rinsing phases
- Residual detergent risk eliminated through automated flushing

Sinks and furniture for manual cleaning

Different sized sinks and furniture specifically designed to assist manual cleaning are available.
EPW 100

- Built in printer for cycle traceability
- USB connection
- Instrument and operator identification through bar code reader. Friendly HMI.
- Channels connections for instrument flushing
- Detergent dosing connection
- Detergent inlet connection
- Leakage test connection

EPW 100 S

- Built in printer for cycle traceability
- USB connection
- Instrument and operator identification through bar code reader. Friendly HMI.
- One-time Connection System
  Shared between pre-washing, washing/disinfection and drying/storage devices
- Additional channel
- Water and chemical channel flushing
- Detergent dosing connection
- Detergent inlet connection

Sink cabinet with automatic filling and draining
Suitable for both versions of automated systems to support manual cleaning, EPW 100 and EPW 100 S.

EPW 100 display: intuitive and simple to use.
- Automated user prompts with operator and scope recognition
- Step by step user guide

+ This system allows total immersion of endoscopes according to most European country guidelines.
Endoscope drying and storage cabinets

Both vertical hanging and horizontal basket or container storage options available in single or double door pass through versions with left or right hand door swings.

- Independently validated to retain microbiology integrity up to 720 hours
- Compatible with all brands of endoscopes
- Storing of up to 18 endoscopes vertically and 16 horizontally
- Warm sterile Hepa filtered air with indirect UV treatment for optimal drying of the outside of endoscopes and connection to internal channels
- From printer option for hard copies to full traceability options with Steelco Data

ED 200 S Series
ED 200 Series

- **High capacity**
  models up to 8 or 16 endoscope connections

- **Horizontal storage**
  with stainless steel trays or plastic containers

- **Channel connectivity**
  - automatic with plastic cassettes
  - manual with stainless steel trays and universal connector

- **High capacity**
  models up to 8 or 16 endoscope connections

- **Horizontal storage**
  with stainless steel trays

- **Channel connectivity:**
  - manual
    with stainless steel trays and OCS system
    (shared between prewashing, washing/disinfection and drying/storage devices)
ED 250 Series

Optimal conditions for storage

Following effective cleaning and decontamination in an automated endoscope processor, maintaining the microbiological integrity of endoscopes during storage is fundamental in reducing cross infection risks. Steelco ensures this in a number of ways.

High capacity
- models for up to 9 or 18 endoscopes connection

Easy to use connector
- for all major endoscope brands

Sliding holder design
- for easy access from either side of of cabinet in a compact footprint

Guides
- to ensure correct hanging, avoid damage and provide correct airflow around and through endoscopes

Sterile air filtering

The ED range is fitted with HEPA H 14 filters for maximum safety. Access for changing the filters is easy through the front panel of the dryers.

- Built in medical grade air compressor or connection to external compressed air source depending on model configuration
- Flow rates monitored in individual scopes

720 hours of aseptic storage

Steelco’s ED series has been independently validated by European certified laboratories for maintaining aseptic integrity up to 720 hours providing you with greater flexibility in the storage of your endoscopes.
UV light treatment

Indirect UV light treatment is used for air treatment to minimize the risk of cross contamination.

Traceability

Manual, barcode or RFID tag input for operator and scope identification.

Control software

Software monitors the performance of the drying cabinet with colour coded status alerts and individual cycle data for each instrument for all machine parameters. Instrument identification is possible using barcode reader or RFID reader.

Steelco SCD

Ready to use Surface Cleaner Disinfectant. Steelco SCD is a ready to use broad-spectrum disinfectant, mycobacteria, fungi, viruses.

It is particularly suitable for the rapid disinfection of surfaces of invasive and noninvasive medical devices including biomedical equipment. Does not stain or corrode the materials.
Drying and storage cabinet dimensions

<table>
<thead>
<tr>
<th></th>
<th>ED 200</th>
<th>ED 200 S</th>
<th>ED 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>970</td>
<td>968</td>
<td>1705</td>
</tr>
<tr>
<td>D</td>
<td>810</td>
<td>840</td>
<td>810</td>
</tr>
<tr>
<td>H</td>
<td>1900</td>
<td>1900</td>
<td>1900</td>
</tr>
<tr>
<td>ED .../1 mm</td>
<td>38 (\frac{3}{16})</td>
<td>38 (\frac{1}{4})</td>
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<td>inches</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>ED .../3 mm</td>
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<td>1713</td>
<td>1713</td>
</tr>
<tr>
<td>inches</td>
<td>810</td>
<td>820</td>
<td>840</td>
</tr>
<tr>
<td>ED .../4 mm</td>
<td>1705</td>
<td>1713</td>
<td>1713</td>
</tr>
<tr>
<td>inches</td>
<td>840</td>
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</tbody>
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Drying cabinets

<table>
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<tr>
<th></th>
<th>ED 200</th>
<th>ED 200 S</th>
<th>ED 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Storage</td>
<td>Up to 9</td>
<td>Up to 18</td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>Up to 8</td>
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</tbody>
</table>

Compliance with standards
- EN 16442 controlled environment storage cabinet for disinfected thermolabile endoscopes
- Independent testing of aseptic storage claims

Instrument connectivity
- Number of flexible endoscopes independently monitored flow rate: 8 or 16
- Compatibility with EW S series endoscope washer connecting system: -
- Automated endoscope recognition and historic data monitoring: *
- UV light air disinfection: ○

Door configuration options
- Storage type: horizontal, horizontal, vertical
- Front access for service and filter and UV change: *

Control system and traceability
- Touch screen 5,7" graphic LCD display: *
- Barcode or RFID use, scope recognition: ○
- Integrated printer: *
- Ethernet port: *
- SteelcoData software for paperless traceability and on line equipment monitoring: ○
- SteelcoData ARES software for paperless total process traceability and on line equipment monitoring: ○

Utilities
- Standard electrical connection, others available on request: 230V~/~/50Hz
- Total power W (per module): 2000

• = Standard  ● = Optional  - = Not available
Complete workflow solutions

Steelco offers complete workflow solutions for different department sizes and layouts, to maximize efficiency and safety.
Workflow solutions

C256/C256D stainless steel transport cart

For the transport of up to 4 endoscope containers or up to 6 stainless steel trays. Storage of white and red endoscope bags, together with red or green tamper proof seals for a quick colour code identification of clean and dirty scopes.

Top can be used as work surface. A version with frontal door is also available (C256D).

Compatible with ED 200 drying cabinet.

T361: Short term transportation system

To improve and maximise safety, thus reducing cross contamination risk while moving the endoscope across GI Labs dirty and clean paths.

The trolleys can be equipped up to 6 cassettes, together with red or green tamper proof seals, or 6 stainless steel tray.

Compatible with OCS One-time Connection System.
C256/C256D: way from dirty to clean area

1. Put the red bag (ED100030) in a empty container (9991504)
2. Put the endoscope in the container
3. Close the red bag with the handles
4. Close the lid. Seal the lid with the red tamper proof seals (99912046)

T361: way from dirty to clean area

1. Prepare an empty container (9992183)
2. Put the C961 stainless steel tray with the endoscope in the container
3. Close the lid. Seal the lid with the red tamper proof seals (99912046)
4. Prepare an empty container (9992183)
5. Close the lid. Seal the lid with the green tamper proof seals (99912047)
6. Put the C961 stainless steel tray with the disinfected endoscope in the container
7. Close the lid. Seal the lid with the green tamper proof seals (99912047)
Process Traceability

Level 1
Paper cycle record keeping

Level 2
SteelcoData
• Electronic cycle record keeping

Level 3
SteelcoData ARES
• Electronic cycle record keeping
• Full traceability system

Legend:
- Information communication and process control
- Stop
- Warning
- Elapsed time
- Total digital monitoring of all cycle phases
- Network
- Internal messages
- Digital communication
- Process flow
- Print flow
- Archiving
Steelco equipment can be configured to provide data to the level required by customers for monitoring the reprocessing of flexible endoscopes.

Key functions:
- Printed cycle verification
- Remote online equipment monitoring

Remote online equipment monitoring:

Traceability information
Records of manual cleaning
- Instrument recognition
- Operator
- Patient
- Clinician

Manual cleaning:
- Instrument
- Operator
- Leak testing

Automated reprocessing:
- Endoscope recognition
- Correct connection
- Pressure leak
- Cycle monitoring
- Pressure monitoring
- Flow monitoring
- User alert to parameter deviations

Drying and storage:
- Endoscope recognition
- Scope start and end storage data
- Any parameter deviations

Time between different phases
Offsite service of instrument

Steelco Data ARES gives you full traceability of flexible endoscope reprocessing.
Process control, Steelcosure
Independent performance verification of your equipment and processes

Liquid hydrogen peroxide chemical indicator

The hydrogen peroxide indicator is designed to monitor the process efficacy of Steelco endoscope reprocessors using SteelcoXide liquid hydrogen peroxide in high level disinfection and sterilization cycles.

Steelco offers the choice of liquid hydrogen peroxide high level disinfection and sterilization cycles in their EW range of endoscope reprocessors.

Protein detection test

The SteelcoSure Protein Detection Test is a simple test, detecting residual proteins on surgical instrument and potentially contaminated surfaces by means of a color change in the test solution.

Long Lumen Protein test

The SteelcoSure Protein test is sensitive to 1μg of protein and designed to detect residual proteins on inside channels of rigid and flexible endoscopes and other potentially contaminated lumen instruments by means of a color change in the test solution within 10 seconds at room temperature without requiring incubation. The test utilizes 2.5 meter long and 2.8 mm diameter swab.

Steelco Q-Water BSK

Professional water sampling kit for bacterial check, provides a ready, easy to use assembled sterile kit to enable water samples to be taken in a controlled environment to minimise the risk of accidental sample contamination.
Peracetic acid process monitors

Peracetic acid process indicator for use in the Steelco EW range of endoscope reprocessors. The color change indicates the presence of peracetic acid.

Process Challenge Device (PCD)

Steelco process challenge device (PCD), customized for Steelco Endoscope Washer Disinfectors range (EW series), is an auxiliary device for routine cleaning efficacy monitoring.

Steelco process challenge device must be used with Steelco Cleaning Indicators in conjunction with Steelco Endoscope Washer Disinfectors range (EW series).

The purpose of the system is to simulate a contaminated flexible lumen device according to ISO 15883-5 and HTM 01/06.

SteelcoXide Liquid Peroxide Biological Indicator

SteelcoXide Liquid Peroxide Biological Indicator is designed to monitor “Steelco EW series” liquid sterilization process utilizing SteelcoXide H₂O₂ in liquid phase as a sterilizing agent. The indicator is developed to react on two main components of the process: sterilizing power of liquid peroxide and mechanical action of the machine, combined in the endoscope washer for the physical elimination of spores.

Safe and user friendly solutions for clinics

A catalog showing all is needed to properly fit out a small endoscopy facility: EPW 100 prewash, EW 1 reprocessor in all its configurations, ED 100/150 storage.