Flexible endoscope automated reprocessing system
Safe, efficient and user friendly solutions
for reprocessing flexible endoscopes in busy departments
Driven by customer needs

Steelco is a leading infection control solution provider, supplying the healthcare, laboratory research and pharma sectors. Active in over 90 countries, Steelco has equipped numerous world renowned hospitals and counts among its customers household names in the laboratory, pharmaceutical, and industrial sectors.

ARES

The new standard for maximum safety in endoscope reprocessing

1. Automated assistance in manual cleaning
2. Automated endoscope reprocessing
3. Drying and storage
4. Traceability solutions
5. Workflow solutions
6. Process control

Steelco Endoscope Washers are designed and constructed to comply with the latest European Standard EN ISO 15883-4 and EN ISO 14937, drying cabinets are in compliance with EN 16442. Steelco devices are classified CE Medical Device (Community rule 93/42/CEE) code nr. 0051.
Working in close collaboration with leading endoscope reprocessing centres, Steelco developed the ARES sytem to best meet the current and future needs of clinicians.

+ **Workflow**  
  To maximize efficiency whilst decreasing the risk of cross contamination

+ **Fast processes**  
  To minimize the time between endoscope use, cleaning and storage

+ **Fully compliant with the standards**  
  Designed to comply with latest standards and traceability functionality

+ **Ergonomic and user friendly**  
  Created around operators to assist them in their daily work routines

+ **Traceability**  
  Different levels of traceability systems available according to user requirements
Complete solutions

The first step to provide the right solution is understanding individual customer needs and offering the best solution based on current and future workflow and workloads.

EPW 100 Series
Automated system to assist manual cleaning

EW Series
Automated endoscope reprocessors for different size departments

ED Series
Aseptic vertical and horizontal endoscope storage
Transport solutions
Safe transport solutions for endoscopes and accessories

Traceability
Page 17

Process control
Page 20

OCS, One-time Connection System for all processing and storage

- Reduced contamination risk
- One-time channel connection
- One-time endoscope handling
- Error proof connection
- Three-times faster connection
- Unique identification ocs/instrument
- Easy and ergonomic

The appliances showing this logo are equipped with OCS one-time connection system, fitting prewashing, washing/disinfection and drying/storage devices.
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 systems 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Manual/Automatic</th>
<th>LxDxH (mm)</th>
<th>Sink LxW (mm)</th>
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</table>
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 systems allows total immersion of endoscopes according to most European country guidelines.
Steelco AERs have been designed to fully comply with ISO 15883 standard regarding low temperature washing and high level disinfection of flexible endoscopes.

Individual channel monitoring for pressure and flow according to individual scope parameters to achieve correct cleaning and disinfection.

Available in single or pass through double door versions for the rapid reprocessing in under 30 minutes of either 1, 2 or 3 flexible endoscopes or up to 9 fiber bronchoscopes.

Ergonomic instrument connectivity and integrated transport solutions simplify operator handling.

Low water and chemical consumption with a small footprint, yet with easy operator and service access, means lowest possible operating costs and best capacity to space ratio.

Dual stage water filtration system down to 0.1microns for endotoxin removal and disinfection of all water protects against contamination. Filters are decontaminated during the self disinfection program of the machine, thereby enhancing filter life expectancy.
2 scopes capacity
Dedicated wash carts for 2 flexible endoscopes, or 6 fiber broncho/cystoscopes, 4 video broncho/cystoscopes

Easy loading
Slide and rotate design for easy connection of channels even in tight workspaces

Loading on transport trolley

Endoscope sleeve holder
To maximize contact between external endoscope surface and chemistries

2 or 3 scopes capacity
Universal wash carts for 2 or 3 flexible endoscopes, 6 or 9 fiber broncho/cystoscopes or 4 or 6 video broncho/cystoscopes

Workflow optimization
Dedicated mesh trays are compatible with Steelco ED series of drying cabinets

Easy Loading
Sliding drawers allows easy single handed connection, motorized automatic sliding door.

Channel connectivity
Manual with OCS, One-time Connection System

1 scope capacity
Universal wash carts for 1 endoscopes, or 3 fiber broncho/cystoscopes or 2 video broncho/cystoscopes

Workflow optimization
Dedicated mesh trays are compatible with Steelco ED series of drying cabinets

Easy Loading
Motorized automatic hinged door, sliding drawers allows easy single handed connection.

Channel connectivity
Manual with OCS, One-time Connection System

“Rack” version
The configuration “rack” is available to optimize spaces and reprocess asynchronously of more endoscopes.

Chemistries
The independently validated results achieved by the ARES flexible endoscope reprocessor range are strictly linked to the use of Steelco chemistries, which provide cost effective rapid cycles.

Using non-validated chemistries contravenes standards, can compromise cycle efficacy, decontamination, and may cause damage to both equipment and endoscopes.
Accessories for EW Series

**Duodenoscope accessories**
For duodenoscopes and linearechoendoscopes available dedicate OCS connector and specific support for the reprocessing of the distal tip.

**Safe Case**
Safe Case enables reprocessing in accordance with ISO 15883 standards of TEE probes. The electronic control unit and connection cable are protected in a hermetically sealed case, whilst the distal tube that requires washing and high level non-thermal disinfection is exposed (not available for EW 1 S range).

**EW 2 S Wash Carts**

- C1621 Insert for 12 rigid endoscopes without internal channels measuring 400 mm length max.
- C961 stainless steel tray compatible with AER, transport cart and drying cabinet
- C565 insert to avoid endoscopic instrument overlapping contact points

**EW 1 S Wash Carts**

- C586 Washing cart for 1 flexible endoscope, including mesh basket and RFID card holder
- C584 Washing cart for video/fiber bronchoscopes and cystoscopes
- C585 Washing cart for rigid endoscopes - 3 injection sleeves max length 450 mm; 5 Luer Lock connections max length 350 mm.

**EW 2 Wash Carts**

- C558 rotating wash cart for ergonomic loading of 2 flexible endoscopes even in restricted areas
- C559 wash cart with removable mesh trays for 2 flexible endoscopes
- C563 wash cart for up to 20 rigid scopes with luer lock connections

- C560 wash cart for the simultaneous treatment of 4 videobronchoscopes/cystoscopes or 8 fiberscopes/cystoscopes with separate control.
- C279 transport trolley.
- C568 wash cart suitable for transport cassettes.
- C572 wash cart suitable for SAFE CASE for transesophageal probes.
Technical data

<table>
<thead>
<tr>
<th>AERs</th>
<th>EW 2</th>
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- = Standard    • = Optional    - = Not available

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<tr>
<th>Technical data</th>
<th>EW 2</th>
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<th>EW 2 3S</th>
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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 or plastic containers

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

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.

Steelco SCD

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.

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.
Drying and storage cabinet dimensions

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 8 or 16 9 or 18
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 ○ ○ ○
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 230V/~50Hz 230V/~50Hz
total power W (per module) 2000 2000 2000

• = Standard ● = Optional ○ = Not available

Drying cabinets
ED 200 ED 200 S ED 250

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<td>810</td>
<td>1900</td>
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<tr>
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<td>31 1/8</td>
<td>74 7/8</td>
<td>38 1/8</td>
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<td>840</td>
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<td>968</td>
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<td>74 7/8</td>
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<td>33 1/8</td>
<td>89 1/8</td>
</tr>
</tbody>
</table>

Drying and storage capacity

Horizontal Storage
ED 200 Up to 8
ED 200 S
ED 250 Up to 9

Vertical Storage
ED 200 Up to 16
ED 200 S
ED 250

Endoscopes per model cabinet Up to 16
Complete workflow solutions

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

Also available with OCS (one-time connection system, shared between prewashing, washing/disinfection and drying/storage devices)
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.

To improve and maximase 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 an 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. Close the lid. Seal the lid with the green tamper proof seals (99912047)
5. Put the disinfected endoscope in the container
6. Put the white bag (ED100031) in an empty container (9991504)
7. Put the C961 stainless steel tray with the disinfected endoscope in the container
8. Prepare an empty container (9992183)
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 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.

Liquid hydrogen peroxide chemical indicator

The hydrogen peroxide indicator is designed to monitor the process efficacy of Steelco endoscope reproprocessors 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 reproprocessors.

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.
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.
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Products offered by each office are those described in this brochure. Due to later production changes or optional configurations, the products and technical specifications are subject to change without prior notice. Please consult your Steelco dealer for the latest information.

Flusher disinfectors
Dental washer disinfectors
Washer disinfectors for central sterile supply departments
Steam sterilizing autoclaves
Laboratory glassware washer disinfectors
Washing and sterilizing systems for life science and pharmaceutical applications

ARES - flexible endoscope automated reprocessing system
Washing and sterilizing systems for lifescience and pharmaceutical applications
Laboratory glassware washer disinfectors
Steam sterilizing autoclaves
Washer disinfectors for central sterile supply departments
Dental washer disinfectors
Flusher disinfectors

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