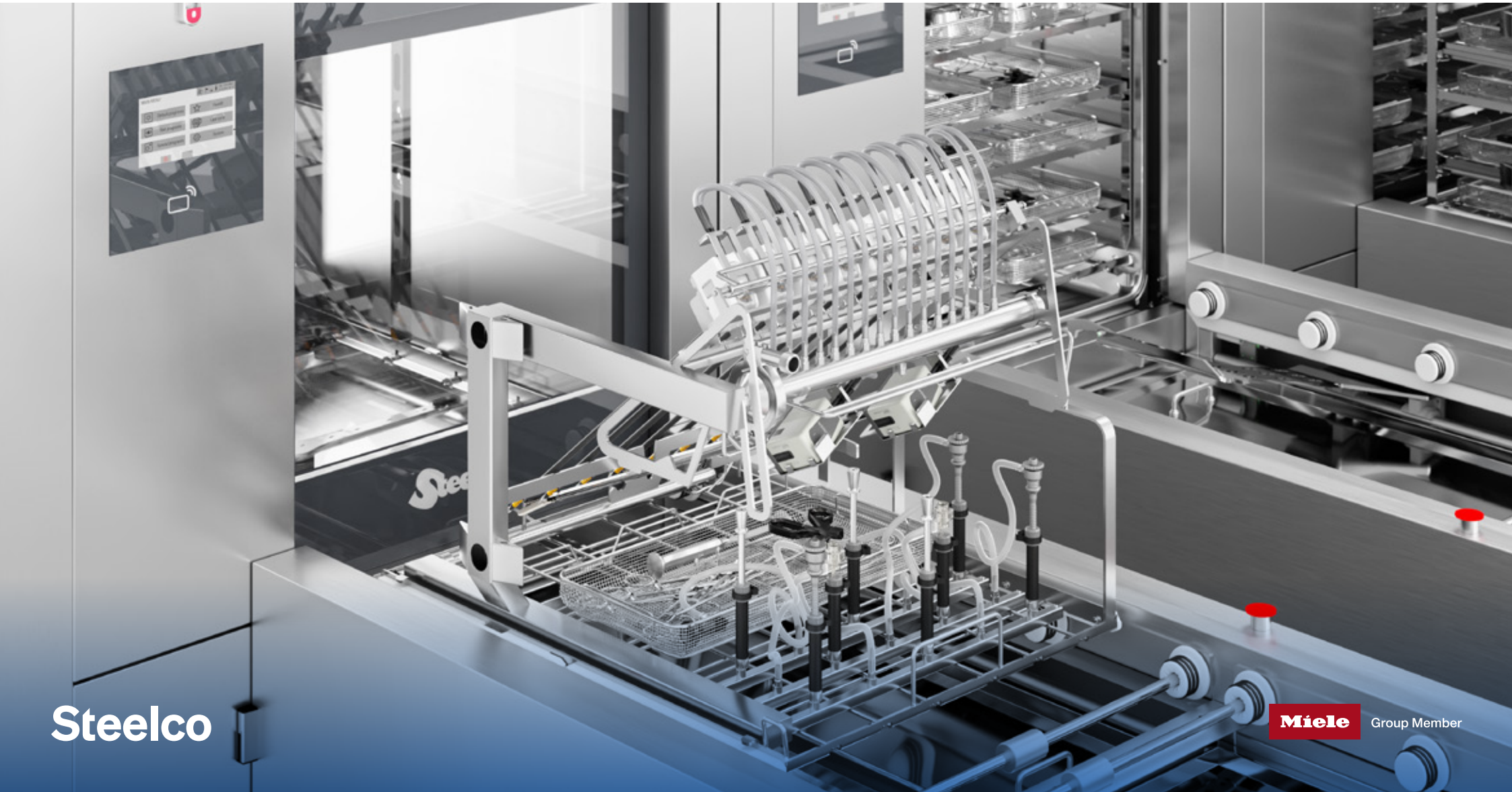
PWD 86 Series

Instrument Washer Disinfectors



Steelco

Miele Group Member

Global Manufacturer and Supplier for Cleaning and Sterilization Solutions

Born from Steelco and Belimed, SteelcoBelimed pioneers sterile workflow solutions with innovation, reliability, and customer focus. “Innovate with confidence” defines our commitment to high-quality products and services, setting new industry standards in Infection Control and Life Science.

Customer Centricity

Our commitment to fully understand customers’ needs and satisfaction is prioritized.
Our products and services are designed to meet those specific needs, ensuring every decision we make benefits our customers for the best results.

Innovation

Our dedication to progress drives us to constantly seek out and embrace new ideas, technologies and methods.
This commitment ensures our products and services continually evolve and improve.

Sustainability

Our planet, our responsibility.
At SteelcoBelimed, sustainability is embedded in everything we do: from optimizing production processes and reducing energy consumption to creating products that support environmental stewardship.
For us, protecting the future means acting today. With integrity, purpose, and a deep respect for people and the planet.

Reliability

Our commitment is to achieve the highest levels of productivity through the optimisation of processes, resources, and operations.
By consistently delivering dependable solutions, we ensure value creation while minimizing inefficiencies.
Our objective is to establish enduring relationships founded on trust, integrity, and mutual respect by reliably fulfilling our commitments.

SteelcoBelimed

Miele Group Member

PWD 86 Series
A New Holistic Approach

Modern surgical techniques increasingly require complex instruments. Whilst many of these can be disassembled prior to reprocessing, they not only contain lumens but also joins and other components which research has shown are hard to clean.

As a leading innovator, SteelcoBelimed has developed the newly patented “Power Pulse Cleaning” technology to improve the cleaning of MIS instruments that are challenging to reprocess, thereby reducing risk and minimizing or eliminating any required manual pre-cleaning.

Two sizes for the optimization of CSSD

Layouts available in 900 mm and 1150 mm width using the same wash racks and modules

Same great features and performance

modules dedicated to instruments of different surgical specialties using patented exclusive Power Pulse Cleaning technology

Space saving concept

fewer racks and modules allow you to save space in your busy CSSD and still get the perfect results you need

Standard compliant

Steelco PWD 86 Series is designed and constructed to comply with the guidelines:

93/42/EEC and s.m.i, EN ISO 15883-1/2, CEN ISO/TS 15883-5, EN ISO 14971, IEC EN 61010-1, IEC EN 61010-2-040, EN 61326-1, EN 62304.

PWD 8626

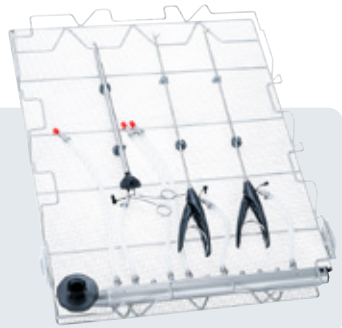
Slim Configuration – 900 mm width.
HMI positioned on top of the chamber.

PWD 8628

Wider Configuration – 1150 mm width.
HMI positioned on side of the chamber.

Power Pulse Cleaning

has proven its efficacy with protein analytic results type tested on complex microsurgery instruments without any prior manual pre cleaning treatment.



Process Quality
Coming Together

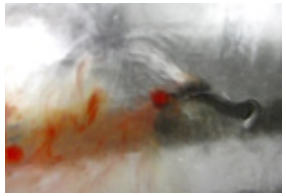
Steelco's patented Power Pulse Cleaning (PPC) reduces or eliminates manual pre-treatment of complex hollow instruments, ensuring safety, consistency, and efficiency. It uses bursts of medical-grade air during water flow to create turbulence and enhance cleaning inside lumens, joints, and junctions. During drying, air pulses eject residual water, improving drying performance.

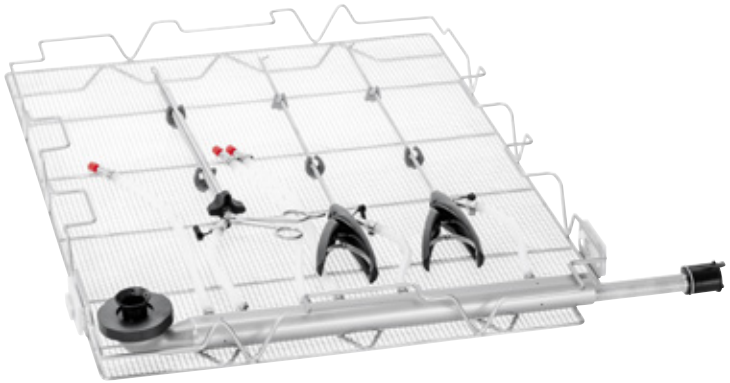
Enhanced process quality

The increasing complexity of surgical instruments and the cleaning challenges this creates as well as the desire of customers to reduce manual pre-cleaning, were the driving force behind the research and development of Power Pulse Cleaning. By reducing pre-cleaning activities also while consumption of water and chemicals is reduced

Power Pulse Cleaning

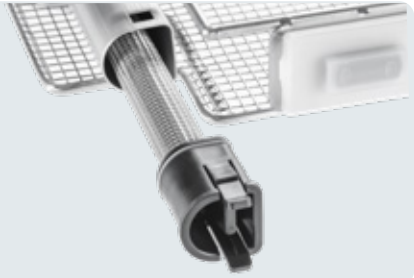
Traditionally increasing water pressure has been used to increase the water flow rate through hollow lumen instruments. However due to the physical properties of lumens, the speed of water flow is mostly increased in the middle of the lumen, whilst the soil to be removed is located on lumen walls.





Microfiltration on modules

In addition to the advanced sump water filtration that eliminates the recirculation of small debris exceeding 0,2 mm, modules for eye and microsurgery hollow instruments can be equipped with a large surface, tool free removable, fine mesh filter (0,063 mm).



Steelco

Efficiency & Sustainability
Coming Together

Reduced cycle time for each load type without compromising cleaning and disinfection results whilst saving energy and water consumption.

Double Drying System

The drying system has been designed to provide optimal performance both in terms of saving process time and improve drying quality with two blowers, heating systems and HEPA filters.

HEPA filters are located immediately before the chamber so that potential particles from fan and heater elements are safely filtered out.

Adaptive Speed Washing

A variable speed pump system allows the adjustment of water pressure and flow according to the amount and type of load and the cycle phase (clean, rinse or disinfection).

Dynamic Water Loading

Dynamic Water Loading allows the adjustment of the water pressure and flow according to the amount and type of load and the cycle phase (clean, rinse or disinfection). Water loading is very fast and efficient as water inlets and tanks are controlled to ensure the proper temperature of water entering the chamber according to each cycle phase.

Advanced Eco Options

PWD 86 series can be equipped with different types of built-in water tanks:

-Pre Heating Tank
to speed up the process by pre heating the final rinse DI water

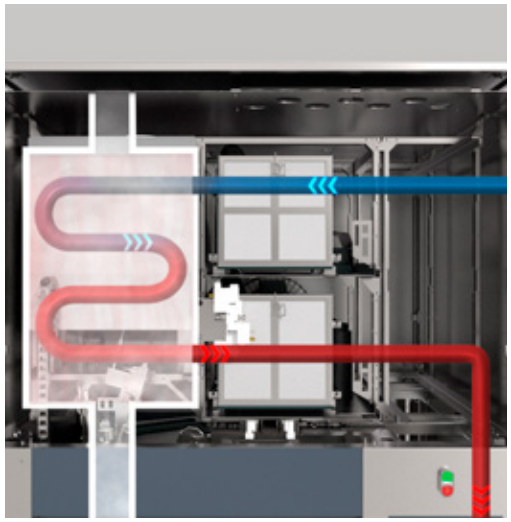
- Recycling Tank
to recycle the final rinse water to be used in the following washing cycle

-Combi Tank (PWD 8626 only)
to speed up the process and recycle the final rinse water

The combination of the different tank options allows you to reach the optimal configuration, as efficiently and as fast as you need

Safety & Performance
Coming Together

Simply well engineered. The PWD 8626 and PWD 8628 have many advanced features to improve process speed and decrease lifetime running costs.



Steam condenser heat recovery

The ECO steam condenser absorbs heat during the drying phase to pre-heat final rinse water for the following cycle. Incoming cold demineralized water passing through a heat exchanger assists to save both heating energy and up to 50% of the cooling water per cycle*.

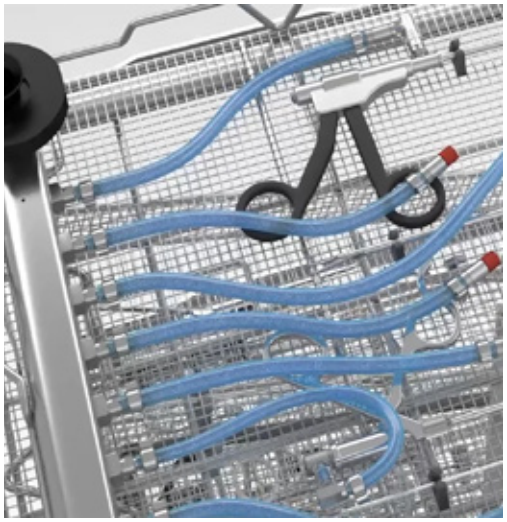
* consumptions data are referred to an average cycle with 18 minutes of drying phase

Optimized for service

Designed for easy service and validation

Optimized for everyday use

PWD 86 series allows quick access to the high capacity chemical storage drawer with connectivity option to central dosing system



Cycle time

Reduced cycle time for each load type without compromising cleaning and disinfection results whilst saving energy and water consumption.

Flexibility & Control
Coming Together

So much more than just a complete range of configurable loading options with validated solutions for various surgical specialties and robotic surgery instruments.

Flexible loading System

Modules dedicated to instruments of different surgical specialties can be easily inserted into a base wash rack. RFID scanning of the modules selects the optimal cleaning and disinfection cycle from the washer's stored program database, choosing the best program to ensure maximum cleaning and disinfection efficacy whilst reducing cycle time, water usage and energy consumption.

Patented technology exclusively available from Steelco.

Intelligent cycle selection

Information from the automatic RFID scanning of the composition of the washing rack after the washer door closes is transferred to the washer disinfector control panel and checked in the database of validated configurations to select the optimal cycle.

Space saving concept

A few basic racks and modules will allow you to save space in your busy CSSD and get the perfect combination you need

Optimized chemical use and reduction of water and energy consumption

Flexible Loading System management is fully integrated with the other advanced functions of the PWD 86 series such as Adaptive Speed Washing and Dynamic Water Loading giving you unmatched efficiency of the washing and disinfection processes.

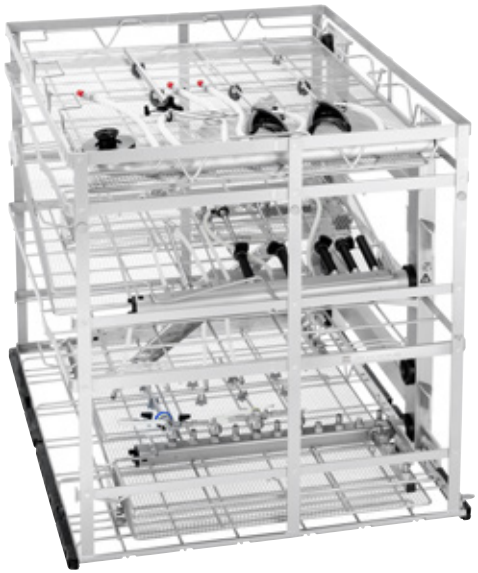
Ideal washing performance

Modules dedicated to instruments of different surgical specialties and Power Pulse Cleaning module

Easy and intuitive to use with automatic program selection assists you to achieve optimal results whilst helping you save time and energy. SteelcoBelimed's way to make your busy day just a little bit easier.

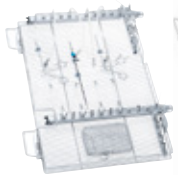
Example of module combination

Example of module combination for microsurgery sets based on A504 basic rack including Power Pulse module



A 610

A 608

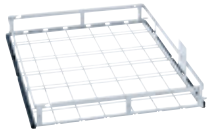


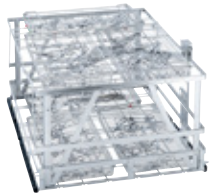
A 624

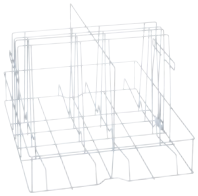
A 624/1

A 607

Example of configurations for generic instruments or containers based on A500 basic rack







Example of configurations for orthopaedic or anaesthesia sets based on A503 basic rack

Example of configurations for microsurgery sets based on A501 basic rack (also allowing the use of the Power Pulse module)

Efficiency & Sustainability
Coming Together

The combination of the variable speed with a double pump system, modular load carriers and RFID recognition provides improved cleaning performance, reduced water and energy consumption to an unparalleled level, helping your CSSD to meet its sustainability goals.

PWD 86 Series
Combined Advantages

Load carriers
Configured to the requirements of different surgical specialties with a different amount and type of modules

Power Pulse Cleaning
to reduce the total reprocessing time of complex instruments normally requiring manual pre-treatment

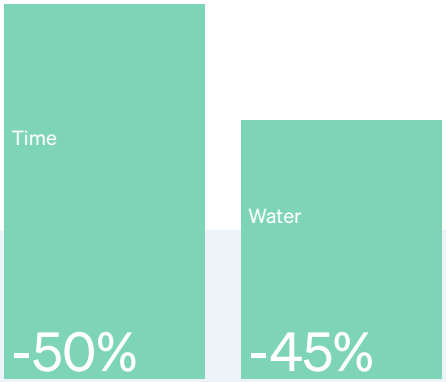
Washing pump speed
maximum speed for intensive cleaning action, low speed for less demanding action, rinse and disinfection

Water loading
adjusted according to the number and complexity of the load carriers and washing pump speed

Energy saving
thanks to load optimized parameters, hot water recycling and steam condenser with heat recovery

Chemistry saving
reduced chemistry consumption is also a positive consequence of water saving

Water recycling
with the configuration of the washer with a Recycling tank or a Combi tank for water preheating and recycling



PWD 8626 and PWD 8628 are super efficient, fast and eco friendly when properly combining interlinked options. Ask SteelcoBelimed how you also could achieve these savings!

* savings are referred to a treatment cycle on a PWD 8628 with pre heating tank, recycling tank and Power Pulse Cleaning on complex microsurgery instruments.

Limitless information & User friendly
Coming Together

The large 7” touchscreen control panel (on both sides for double door devices) facilitates device control with bright, easy-to-read information even from a distance: an intuitive and practical aid for operators in their daily tasks. In addition, the well-thought-out and user-friendly design is consistent throughout the portfolio of Steelco devices, supporting intuitive operation and reliable processes.

Large HMI with user friendly graphics

7” colour touch displays are integrated in the glass front panel of the washer and installed on both loading and unloading sides.

HMI screens graphics are easy to interpret without compromising the flexibility and capabilities of the machine and process. Process monitoring is intuitive with color coded messages to quickly identify the cycle status.

RFID Automatic wash rack and modules recognition

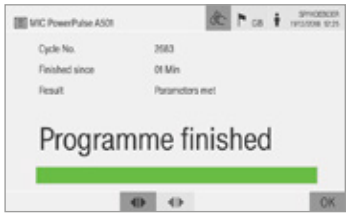
The washing rack composition is automatically scanned and recognized for simple and safe process operation.

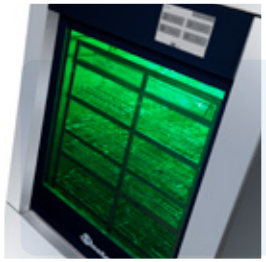
RFID user recognition

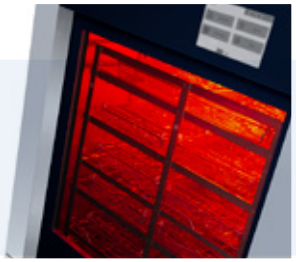
The control system provides up to 8 user levels for daily use, programming or service activities. Users can also identify themselves by RFID cards.

Cycle and instrument traceability

Full history cycle traceability, compatible with SmartHub Flow instrument traceability systems.



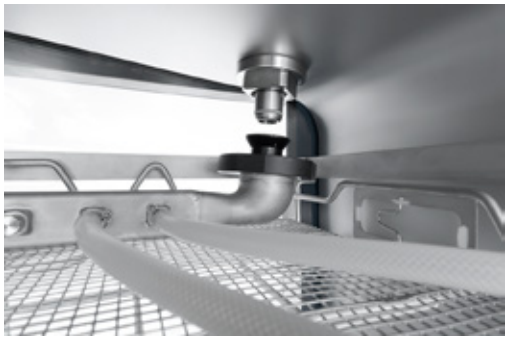




Process monitoring... at a glance

Light in the chamber
Washer/cycle status is also easily shown by the change of color of the chamber light

Smart design & Reliability
Coming Together

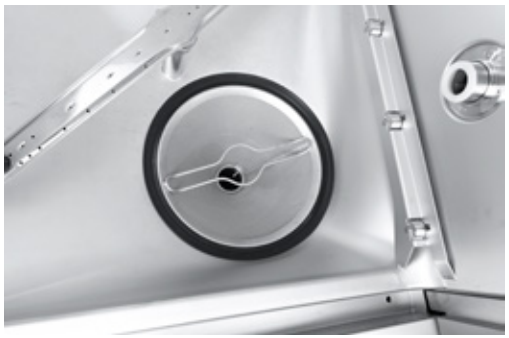


Hygenic design

The washing chamber is designed and constructed with smooth edges and corners, removing areas where soil could accumulate and lead to bacterial growth.

Robot system welding technology

Starting with highest grade stainless steel sheet, chambers are completely made by robots with maximum precision and quality.



Smart sump water filtration

The PWD 86 series sump fine filter mesh reduces the size of the debris that can recirculate to less than 0.2 mm only and eliminates the need to equip the rotating washing arms with open ends for inspection and cleaning access thereby saving time.

The collection of debris on the specially designed inclined filter surface allows self-cleaning during draining, forcing debris into the drain during each cycle drain phase, with the benefit of reduced manual filter maintenance, thereby saving time.

Washer Disinfector Compatibility

PWD 8626 and PWD 8628 are streightforward replacement for old washer disinfectors. Previous generation Miele PG 8528 washer disinfectors wash racks and transfer trolleys are also compatible with both PWD 8626 and PWD 8628.

Workflow Integration Solutions

A full range of transfer trolleys, infeed and outfeed conveyors and rack return hatches or windows is available to be combined and match your perfect workflow layout.

Service

Wherever you are located, a factory trained and experienced service team ensures efficient installation, commissioning, technical support.

Tailored Solutions for Every CSSD Requirement

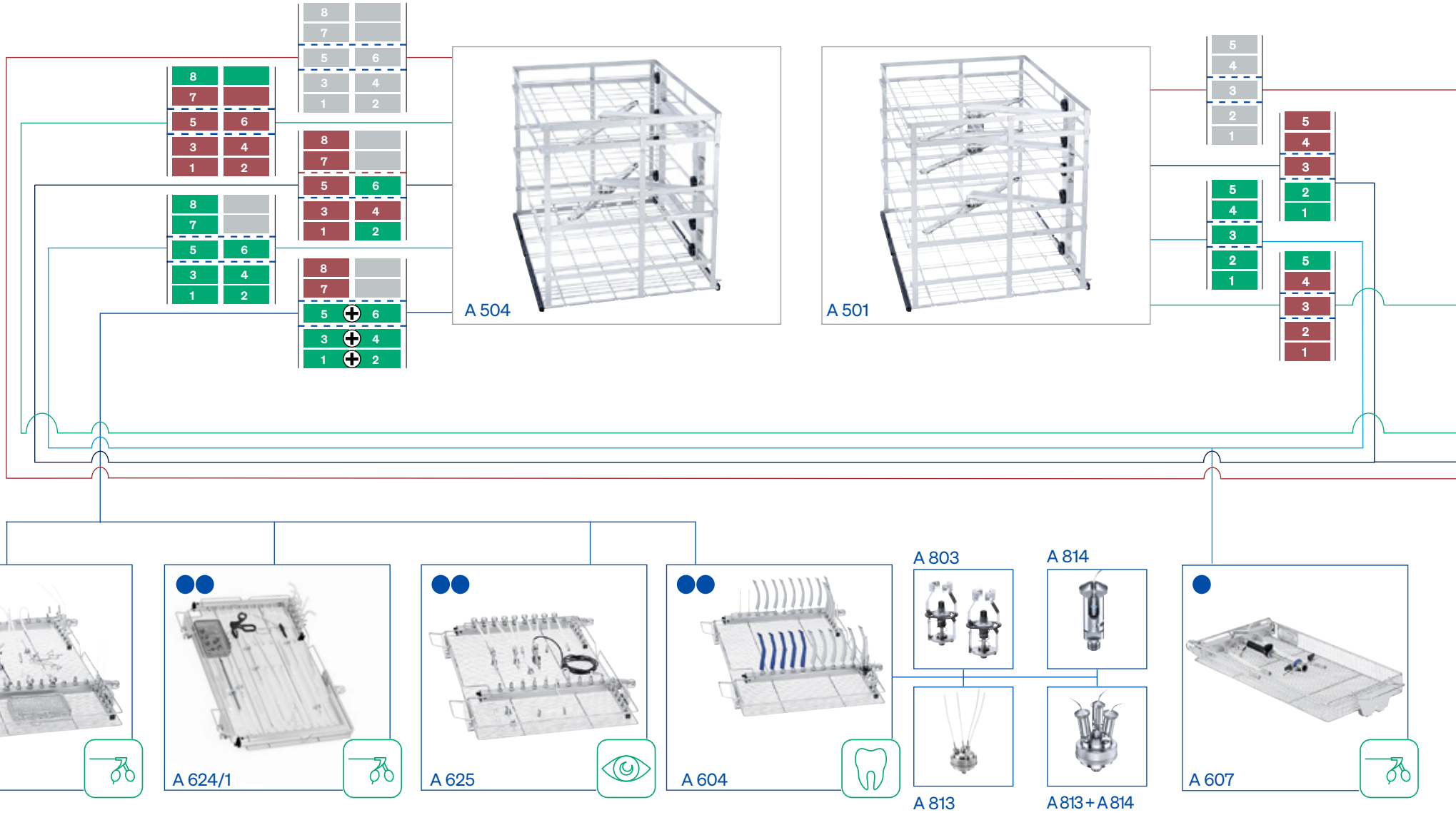
Whether you are just wishing to replace a single small machine or assistance in designing and equipping a large central CSSD, Steelco's subsidiaries and factory trained distributors are here to help you make the best decision possible that works for you and then support you every step of the way.

PWD 86
Basic Racks & Specialized Washing Modules

Specialized modules for Steelco PWD 86 are the core of the “Flexible Loading System” allowing ideal washing performances, optimizing chemical use and reducing water and energy cycle consumption.

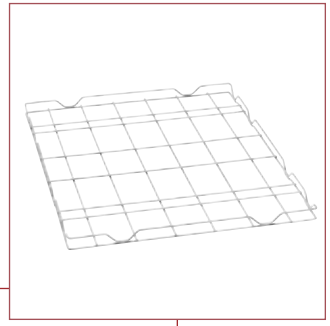
Here shown the compatibility rules of modules on 4 basic wash rack.

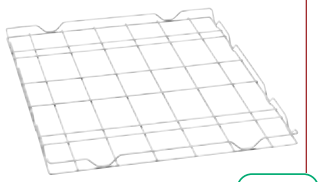
(due to the height of the load, some positions are possible but not simultaneously)



= allowed connection
= not allowed connection
= free loading space or available for different type of modules

= single connection
= double connection
= additional shelf





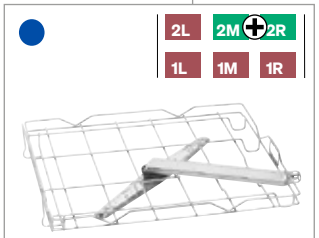
A 601

A 500

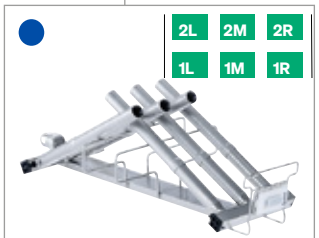
A 503

A 617

A 615



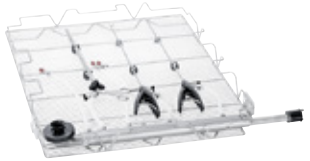
A 606



A 611

A 608

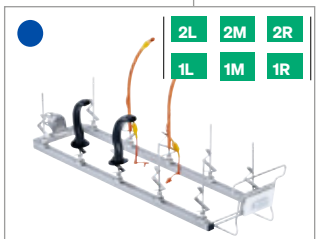
Power Pulse Cleaning



A 610

A 616

A 603



A 619

A 618

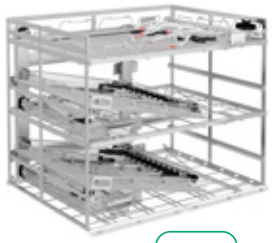
Flexible Loading System Compositions

Combining Basic Racks & Specialized Washing Modules

The compositions here represented are identified by the RFID control system of the PWD 86 series instrument washer disinfector and allowed being factory type tested by Steelco.

Pictures may represent empty space available for additional mash trays not requiring injection washing connections. Connections capacity may vary if washing modules are equipped with optional instrument connections.

Always refer to wash carts, modules and connections IFU's for an up to date information.

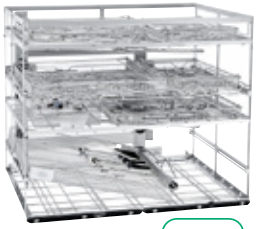


A 504

\+ 1x A 610 + 2x A 608 + 2x A 607 = 11 connections for power pulse cleaning 42 connections for hollow instruments

A 501

\+ 1x or 2x A 601 = 5 levels for up to 15 DIN trays = 6 levels for up to 18 DIN trays



A 504

\+ 1x A 601 = 4 levels + 1x A 607 + 1x A 608 = 18 connections for hollow instruments 9 DIN trays

A 501

\+ 1x A 601 = 5 levels + 1x A 607 + 1x A 608 = 17 connections for hollow instruments 12 DIN trays

A 504

\+ 1x A 601 = 4 levels + 3x A 607 + 1x A 608 = 29 connections for hollow instruments 7 DIN trays

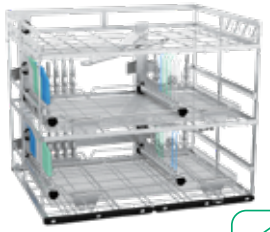
A 501

= 4 levels + 2x A 607 + 2x A 608 = 36 connections for hollow instruments 6 DIN trays

A 504

2x A 625 = 64 connections for ophthalmologic instruments 3 DIN tray

Preconfigured washing Racks

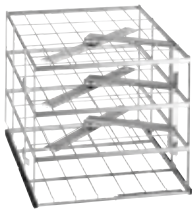


A 504

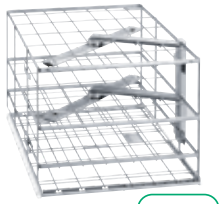
\+ 2x

A 604

= capacity up to 64 dental instruments



A 506



A 508

A 509

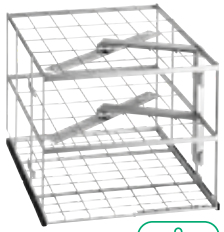
A 503

\+ 1x + 1x or 2x

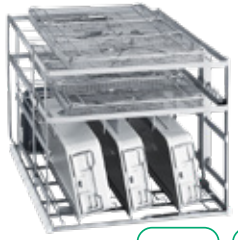
A 606

A 611

= up to 12 connections tube-shaft instruments from the field of orthopaedic surgery: rinsing tubes, working shafts, guide sleeves, bone marrow drills...
up to 5 DIN trays



A 505



A 507

A 503

\+ 3x

A 618

= capacity up to 72 anaesthesia masks or capacity up to 18 or breathing bags

A 503

\+ 6x

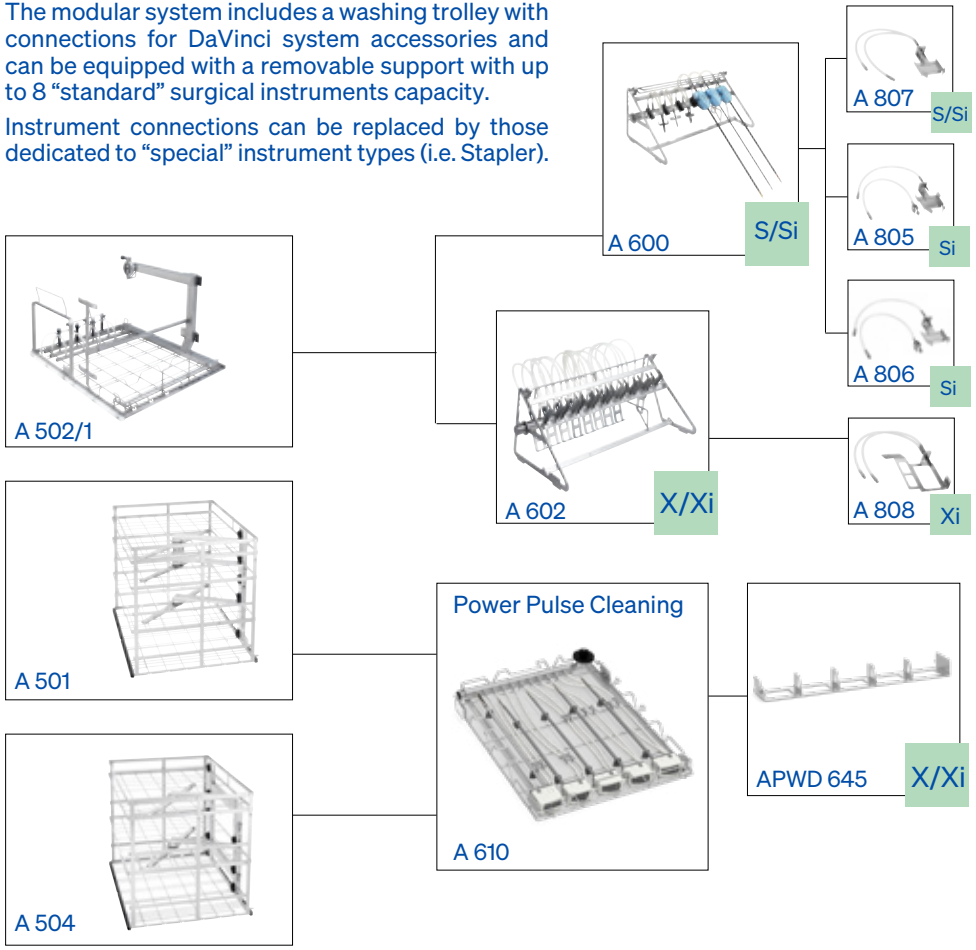
A 619

= capacity up to 60 Guedel tubes/endotracheal tubes, larynx masks and similar items from anaesthesia and intensive care

Washing racks
for Robotic Surgery Instruments

The modular system includes a washing trolley with connections for DaVinci system accessories and can be equipped with a removable support with up to 8 “standard” surgical instruments capacity.

Instrument connections can be replaced by those dedicated to “special” instrument types (i.e. Stapler).



Capacity and Dimensions
Layouts and Configurations

	Chamber (HxDxW)			Overall (HxDxW)		
Model	**Height**	**Depth**	**Width**	**Height**	**Depth**	**Width**
PWD 8626	675 mm	800 mm	650 mm	2500 mm	990 mm	990 mm
PWD 8628	675 mm	800 mm	650 mm	2500 mm	990 mm	1150 mm

Maximized performance
with SteelcoBelimed's experts

Service Plans

Prevention is better than cure. Our tailored service plans ensure maximum equipment uptime through customized preventive maintenance based on machine usage. Whether you rely on in-house technicians or our expert team, different solutions may include scheduled preventive maintenance visits, repairs and parts, depending on the options chosen. Optional enhancements, such as chamber cleaning and water quality monitoring, help optimize performance and control costs – keeping your operations running smoothly and efficiently. Ask your local SteelcoBelimed representative for the range of services offered in your area.

SteelcoBelimed Academy

The SteelcoBelimed Academy offers a diverse range of training options tailored to the specific needs of CSSD professionals. The state-of-the-art training facility in Riese, Italy, serves SteelcoBelimed divisions Infection Control, Laboratory, and Biomedical Research (BMR) with an impressive capacity to train up to 1,100 service technicians annually. The Academy represents our commitment to advancing the entire field of sterile processing. Healthcare professionals who train here will gain insights that go beyond equipment operation to encompass the science of infection control and the optimization of sterile processing workflows. This knowledge translates directly to improved patient safety and operational efficiency in their facilities.

Total Cost of Ownership (TCO) Contracts

Our TCO contracts offer a multi-year, fixed-cost service solution that ensures budget stability and long-term value. By locking in rates and minimizing exposure to rising costs, these contracts provide clear financial planning. Ideal for extending the life of your equipment, these all-inclusive packages reduce operating costs, protect investments and support sustainability goals over the entire equipment lifecycle.

Digitalization in Service Operations

Our digital solutions provide access to real-time equipment data, helping service teams monitor performance and more quickly identify any potential issues. Clear dashboards and automated alerts allow maintenance to become more predictive and efficient. These tools support better planning, reduce unexpected downtime and simplify compliance. By integrating digital workflows into service routines, facilities can improve reliability and make more informed decisions based on actual usage and performance trends.

SteelcoBelimed Miele Group Member

Innovate with confidence

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The products and technical specifications are subjected to change without prior notice. Please consult your Steelco dealer for the latest information.

CE 0297*

*Only for products listed into the 170714123 MDD certificate