![CISA logo](We care about life)

COMPACT WASH &STERILIZATION

For healthcare facilities veterinarian clinics and dental practies

Healthcare

Cisa Group

Cisa Group is a global supplier of infection control systems with production plants in Italy and Brazil.

Founded in 1947, Cisa Group, together with Cisa America and Cisa Brasile, forms an international group that is one of the world's leading manufacturers of washing, disinfection and sterilization technology for infection control for the healthcare and life sciences industries.

HEALTHCARE INDUSTRY

LIFE SCIENCES INDUSTRY

Creating safer environments in hospitals, healthcare facilities and laboratory applications is a fundamental priority for the well-being of humans worldwide.
This is the commitment that drives Cisa to its claim:

We care about life

DIRECTIVES
93/42/ EC
2007/47/EC
2006/42/EC
2014/30/UE
2014/35/UE
PED 2014/68/UE

PRODUCT STANDARDS
EN 61010-1
EN 61010-2-040
EN 60204-1
EN 61326-1
EN 13445
EN 285
EN ISO 15883-1,-2,-6

QUALITY SYSTEM
UNI EN ISO 9001
UNI CEI EN ISO 13485

Cisa Group is part of Faper Group, leading Italian supplier of world-class, innovative engineering solutions.
The Group is inspired by its founder, Fabio Perini, and has based its success on the ability to combine invention and simplicity.
Faper Group was established in 2001 as a holding company dedicated to innovation in the fields of tissue paper converting, healthcare and real estate management.

FAPER GROUP

MORE INFO ON THE FAPER GROUP WEBSITE

Technology

Healthcare

Cisa Group develops advanced infection control technologies for the safeguard of healthcare workers and the health of patients.

Complete central sterilizing service departments for hospitals (CSSD)

Sterilization for healthcare applications and clinics of all sizes

Disinfection and washing technologies for different operational requirements

Life Science

Cisa Group is the technology partner for scientists, researchers and engineers who develop life-enhancing products every day.

Washing and sterilization technologies for laboratories and research centres

Sterilization for pharmaceutical production

Waste

Cisa Group, with 15 years of experience in the treatment of infectious waste, provides ground breaking solutions that are safe, economical and carbon friendly. Cisa Group is leading the field with the invention of its Waste Sterilization Department (WSD®).

WSD. Complete waste treatment department

WSM. Plug and Play Sterili-Station

Software

Over the years it has developed unique proprietary IT and energy saving systems.

Tracecare®.Traceability of the sterilization process for the reconditioning of surgical kits in CSSDs

TraceWaste. Traceability of the sterilization process for the treatment of infectious waste using Cisa WSD Waste sterilization departments

Why choose Cisa Compact?

Infection control in hospital and healthcare environments is essential and ensures the **health and safety of operators and patients**. Even in smaller environments, such as dental practices or outpatient and veterinary clinics, **appropriate procedures and proven technologies are required**.

Detailed and meticulous procedures indicate how to act, what to do and when, and every step must be followed to the letter, without neglecting anything. In any given work day there may be several disruptions that jeopardise an essential task: unforeseen events and emergencies, human factors (such as stress and fatigue) and lack of time can lead to something being overlooked.

Healthcare professionals are well aware of their responsibility; they know that the main objective is **the highest protection of operators - in the washing, disinfection and sterilisation phases –** an**d safeguard in the treatment of each patient**. This is essential for the survival of their business. For this reason, any improvisation, randomness, setbacks and critical issues are to be avoided.

What is needed is process efficiency, easy of use and speed of action.

Infection
Control

Infection prevention depends on:

1. trained and efficient operators;

2. a perfectly organised, arranged and clean space;

3. easy-to-use, flexible and effective machines for washing and sterilising all the instruments used daily in the surgery.

The Cisa Compact washing, disinfection and sterilisation devices are the ideal solution for small healthcare facilities, veterinary clinics and dental practices.
They both are small, compact and fit into any space, and blend with different kinds of existing furniture.
They are flexible, easy to use and effective: a very beneficial proposal with an optimal price-quality ratio.
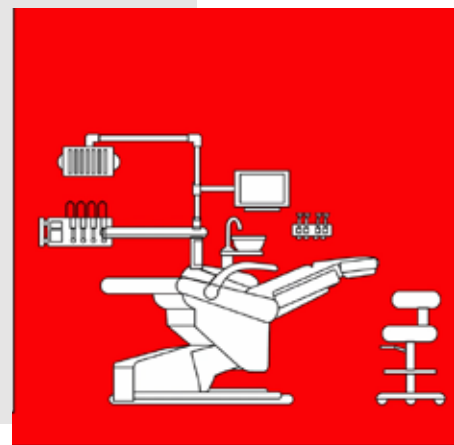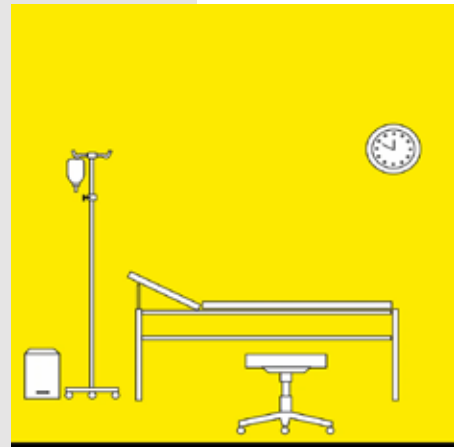
HEALTHCARE
FACILITIES

VETERINARIAN
CLINICS

DENTAL
PRACTIES

Compact's strong points

Complete, reliable, effective

The Compact range consists of an under-counter washer-disinfector model Washer Disinfector P-84 and a table-top steriliser model Table-top (SUPERIOR 23/ P-250, 23-litre). Both are certified medical devices complying with 93/42/EC and Cisa's quality standards ensure constructive compliance with current technical standards. With the combined unit, the entire infection control procedure can be carried out: from the washing and disinfection treatment to the subsequent sterilisation phase. Operators are protected from the hazards of handling contaminated instruments and interventions on patients are completely safe because they are carried out with perfectly sterile instruments.

Contained dimensions

The P-84 is 600 mm wide, 828 mm high and 634 mm deep.
The 23-litre P-250 (best price in the range with maximum capacity) is 690 mm wide, 400 mm high and 505 mm deep.
With such reduced dimensions, it can be easily positioned even in the tightest and most confined spaces.
These small sizes do not affect the machines' capacity or functionality: both models are designed to be spacious and compact, and this feature also simplifies maintenance.

Easy to handle

The P-84 and the 23-litre table top sterilizer, the best seller in the range with maximum capacity, have a reasonable weight and it is quite easy and effortless to move them both and place them where it is considered most appropriate.

Integration and organisation of available space

Thanks to their small size and low weight, both machines can be positioned in a variety of ways, in any space and with different kinds of furniture. The SUPERIOR 23/P-250 can be positioned on any worktop and the P-84 can be recessed into existing furniture; the combined unit can be assembled as a column with a special stand. It is easy to configure a working area of necessary and sufficient size. Any medical practice can therefore be provided with a well-organised area with easy access for operators.

Easy of use and fast operation

Operating the Compact is extremely simple. Both machines are equipped with a user-friendly and intuitive display and operator panel. The controls are easy to understand: select the desired cycle, load the instruments and activate the machine in just a few minutes by following few simple steps. Thanks to the use of colours and icons, it is also possible to monitor the progress of the cycle at a glance, ready to intervene promptly should a recognisable alarm sound or symbol appear.

Low-cost

The Compact machines are extremely cost-effective. They are positioned at a price level below the current market values. It is the ideal choice for small and medium-sized healthcare facilities.
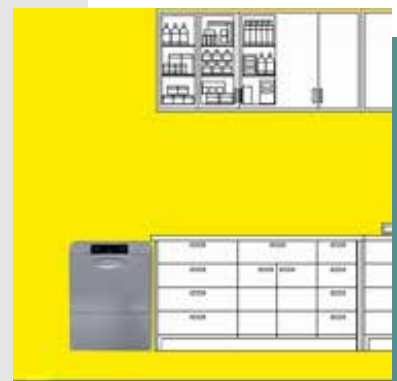
Why choose Cisa Compact? Because it offers Cisa quality for Compact spaces.

Washer Disinfector P-84

The P-84 undercounter washer-disinfector is a compact machine with an underbench installation that allows for the washing and thermal disinfection of reusable medical devices. The P-84 is a class IIB medical device complying with UNI EN ISO 15883-1,2.

Versions

Two versions are available, which differ only in the integrated drying function and the relative options.

Operating mode

The alphanumeric LED display, controlled by only 4 function keys, has colours that change according to the specific phase in the washing cycle, so that the machine status is visible and intuitive even from a distance.
The light are LED with different colors and are able to communicate the machine status.

Disinfection cycles

The machine features, as standard, 4 thermal disinfection cycles:
• short instruments;
• instruments;
• anaesthesia;
• medical clogs.

LED LIGHT

White: machine ready to be loaded

Blue: machine is running a cycle

Verde: he cycle is ended regurarly

Red: he cycle is stopped or ended irregularly due to alarms.
rmi

Capacity

The maximum load capacity of the P-84 series is for 6 standard DIN trays, arranged on a rack with 3 levels.

Racks

The racks are equipped with plastic guides that facilitate smooth running and limit maintenance. These variants are available with automatic rear connection.

• 6 DIN rack (3 levels)
• 4 DIN rack (2 levels)
• Clogs rack (10 pairs)
• Rack with quick coupling connector
(multipurpose anaesthesia - mic)
• Dental rack Customized racks are available
on specific requests.
* DIN dimensions: 480x250x50mm.

Integreted drying function

The function features a two-speed ventilation system and heating system with variable dual power.
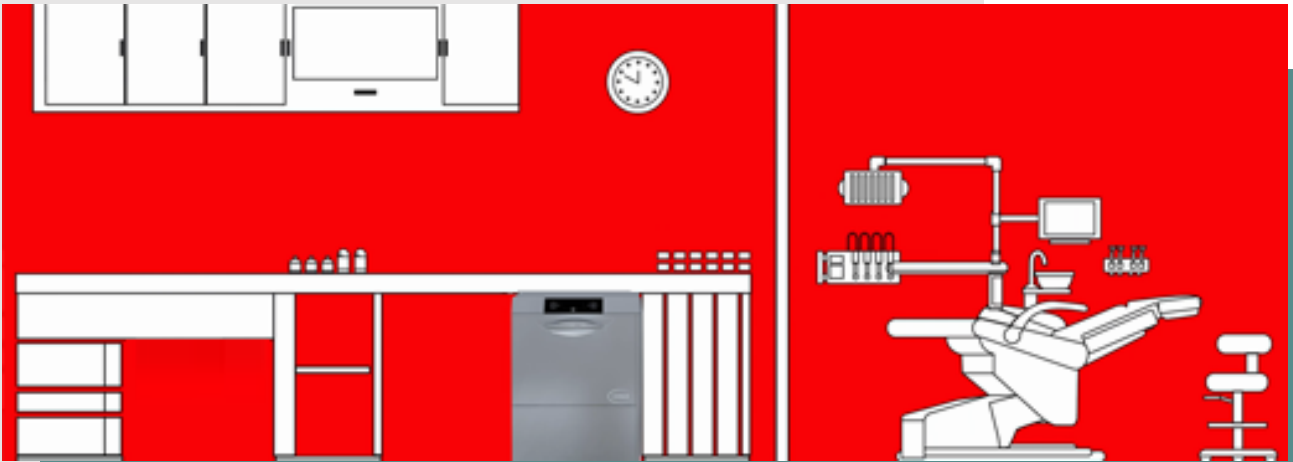
Optional

Dosing pumps

The machine is equipped with one dosing pump and two more can be added..

Flow meters

Depending on the number of dosing pumps, the appropriate number of flow meter kits is combined.

Printer

The machine is completed by an external stand-alone thermal printer, useful for the traceability on paper of the washing cycle.

USE
THE QRCODE
TO WATCH
COMPACT VIDEO

Table top 23-litre

The series to which the SUPERIOR 23/P-250 23-litre table-top belongs is equipped with advanced technology in line with the latest regulatory and technical standards, conforming to UNI EN ISO 13060 class B and PED 2014/68/EU.

All internal components are made in Europe and manufactured with high quality materials to ensure better performance and longer life.

The machine connects directly to the PC through a USB port on the back and is also equipped with a printer integrated in the control panel that allows to record and store the paper reports of each sterilisation cycle.

Versions and Capacities

The Compact table-top series is available in various models with different load capacities: 6-litre, 18-litre and the 23-litre model, which is the best price in its category. The equipment consists of a sterilisation chamber in AISI 304 stainless steel of adequate thickness to withstand steam pressure and operating temperatures and obviously resistant to corrosion.

Operating mode

The table-top Class B allows the operator to carry out sterilisation procedures on all types of instruments, solid, hollow or porous, packaged or not, through cycles that use fractionated vacuum pulsations controlled by the electronic system.

A wide display and a very intuitive software that controls the various functions make it easy to use, with clear and immediate messages and with just 4 buttons to browse the menu and select the work

cycle. From the display it is possible to supervise every moment of the cycle, checking the pressure and temperature values of the chamber, the duration and the time remaining until the cycle end. From the main menu it is possible change all the options: language, date and time, auto-fill, automatic switch-off.

Cycles

They are programmed through the system that controls the autoclave.
• 10 pre-set cycles to sterilise all types of materials and instruments compatible with the steam sterilisation process.
• 2 test cycles (VACUUM TEST (air tightness test) (HELIX TEST / BOWIE & DICK TEST (hollow and porous load tests)..

Integrated conductivity meter

For a correct sterilisation process, steam quality and consequently also water quality need to be good. The conductivity meter monitors the water quality and determines the performances but also the need for maintenance.

Maintenance kit

The 23-litre is easy to use and easy to maintain. It has a specific kit to be used when a set number of cycles is reached (1000, 2000 and after 4000). It is easy to understand when to intervene: the machine indicates when the number of useful cycles has been exceeded and warns to proceed with maintenance.

Accessories   Optional

Compact Osmosis System

On this series of sterilisers it is possible to have the Compact Osmosis System for quality control and treatment of stored water. This system protects the steriliser's components and ensures a longer life span

Special USB Datalogger

It is possible to integrate the printer's data logging system with the USB option: digitally recording the information of the sterilisation cycles saves additional space and paper consumption (for the P-200 series).
The same tool is the key to maintenance: the technician uses the Special USB Datalogger to automatically update the software if necessary.

Washer-disinfector P-84 Technical features

FEATURES		
Chamber dimensions	Chamber volume 106 litres	Chamber Capacity
	Chamber depth 520 mm	Max 6 standard DIN trays, arranged on a rack with 3 levels.
	Chamber width 530 mm	
	Chamber height 385 mm	
Total empty weight	~ 40/50 Kg (it depend from dry option)	
Type of door	Manual tilting	
Door/s movement	Manual	
Overall dimensions	600 mm L, 634 mm D, 828 mm H	
UTILITIES AND CONSUMPTION		
Power supply requirements		
Standard voltage	400VAC ±10% 3L+N+PE	
Frequency	50Hz / 60Hz	
Maximum power consumption	6,5 kW (S)	
	8,45 kW (L)	
Utility requirements		Consumption
Cold service water	Service water DN15, 1/2"F, 1.5÷3 Bar, 10 lt/min	12lt/ cycle
	Soft water quality, ≤ 8°F, 10-20°C	
Hot service water	Service water DN15, 1/2"F, 1.5÷3 Bar, 10 lt/min	12lt/ cycle
	Soft water quality, ≤ 8°F, 65°C	
Treated water	Treated water DN15, 1/2"F, 0.5÷3 Bar, 10 lt/min	24lt/ cycle
	Demineralized water quality, 5µs/cm2, ph 5-7	
PRODUCTION STANDARDS		
Medical Devices Directive	93/42/EEC modified by 2007/47/EC	
Device classification	Class IIb	
Low voltage	2014/35/EU	
Electromagnetic compatibility	2014/30/EU	
Machinery Directive	2006/42/EC	
Safety of Electrical Equipment	IEC 60204-1:2016	
Washing and disinfection devices	UNI EN ISO 15883-1:2014 UNI EN ISO 15883-2:2009	
Quality Management System	UNI EN ISO 9001:2015	
Medical Devices Quality System	UNI EN ISO 13485:2016	

Table-top 23-litre Technical features

MODEL and CAPACITY SUPERIOR 23 (P-250)	Cisa Table-top 23L B	Cisa Table-top 23L S
Chamber dimensions (mm)	236x530	
Chamber material	Stainless steel	
Total depth (mm)	690	690
Total width (mm)	505	
Total height (mm)	400	
Weight (kg)	55	50
Number of trays	4	
Tray width (mm)	185	
Tray depth (mm)	440	
Supply voltage (VAC +/- 10%)	230	
Mains frequency (Hz)	50-60	
Class	Class B	Class S
Heat pump	YES	
Solid loads (unpacked)	YES	
Packed materials	YES	
Narrow lumens	YES	NO
Simple hollow objects (lumens)	YES	
Porous loads	YES	NO
Small porous loads	YES	
Number of pre-programmed cycles	12	
Helix test and Vacuum test	YES	NO
Bowie & Dick test and Vacuum test	YES	
Separate tanks for clean and dirty water	YES	
Integrated water conductivity meter (std)	YES	NO
Instant vaporizer / Steam generator	YES	
Door closure (motorized)	YES	
Printer (standard)	YES	
USB (integrated)	Optional	
USB (external)	Optional	
Display	Graphic	
Night cycle	YES	
Reprint of the last 10 cycles	YES	

Table-top Compact
Full range

MODEL and CAPACITY	6-litre B	SUPERIOR 18-litre B (P-240)	SUPERIOR 18-litre S (P-240)
Chamber dimensions (mm)	170x265	236x381,5	
Chamber material	Aluminium	Stainless steel	
Total depth (mm)	590	615	
Total width (mm)	450	505	
Total height (mm)	345	400	
Weight (kg)	40	50	45
Number of trays	3		
Tray width (mm)	115/150	185	
Tray depth (mm)	240	285	
Supply voltage (VAC +/- 10%)	230		
Mains frequency (Hz)	50-60		
Class		Class B	Class S
Solid loads (unpacked)	Yes		
Packed materials	Yes		
Narrow lumen	Yes	Yes	No
Simple hollow objects (lumens)	Yes		
Porous loads	Yes	Yes	No
Small porous loads	Yes		
Number of pre-programmed cycles	12		
Helix test and Vacuum test	Yes	Yes	No
Bowie & Dick test and Vacuum test	Yes		
Separate tanks for clean and dirty water	Yes		
Integrated water conductivity meter (std)	Yes	Yes	No
Instant vaporizer / Steam generator	Yes		
Door closure (motorized)	Yes		
Printer (standard)	Yes		
USB (integrated)	Optional		
USB (external)	Optional		
Display	Graphic		
Night cycle	Yes		
Reprint of the last 10 cycles	Yes		

Table-top P-290H 77-litre

The P-290H is a small steam steriliser in line with the latest regulatory and technical standards, compliant with UNI EN ISO 13060 class B and PED 2014/68/EU. It is a bench-top autoclave, alternative to the 23-litre Table-top and ideal for healthcare facilities requiring higher productivity. It has been studied and designed for the sterilisation of surgical instruments, gloves and rubber materials, liquids in open containers, empty glassware, flasks, test tubes, pipettes and Petri dishes.

Versions and Capacity

The P-290H model, with a 77-litre capacity, is equipped with a self-contained chamber heating system by means of an electrically operated steam generator; it is complete with a pressure switch and pressure transducer for controlling the pressure and temperature inside the chamber.

Operating mode

It is equipped with an integrated control system. The control panel houses: the on/off button, a compound gauge, the alphanumeric printer and a 4.3" backlit touch screen.
The display allows to view and monitor the various process functions and its progress, as well as the general system conditions (temperature, pressure, vacuum) and any alarms.

Utility supply, loading and unloading, water consumption

The equipment must be supplied with distilled water: there are two 8-litre plastic tanks, one for loading clean water and the other for collecting wastewater.
Water must be manually loaded into the tank. Water is manually discharged by means of a special tap to be positioned by a collecting container or a discharge line. With a full water tank, the machine performs seven sterilisation cycles.

Sterilisation cycles

Sterilisation cycles consist of six consecutive phases, which are carried out only when the parameters of the previous phase are reached.

- 4+1 pre-set cycles (Iron Cycle, Rubber Cycle, Flash Cycle, Textile Cycle) to sterilise any type of material and instrument compatible with the steam sterilisation process. The laboratory version also includes the Liquids Cycle to sterilise liquids in open containers.
- 2 test cycles: Vacuum Tightness Test to verify the chamber tightness and BOWIE & DICK TEST to verify steam penetration.

Safety System

Mechanical device preventing door opening in case of pressure in the chamber, with signalling micro-switch.

- Overtemperature protection device during the sterilisation phase.
- Maximum pressure safety device (pressure switch).
- Maximum resistor temperature safety device.
- Manual reset thermostat inside the generator body.
- Fuse and electrical protection on electrical system auxiliaries
- Device preventing door opening in cycles for liquids in both open and closed containers if the temperature inside the liquid has not dropped below 90° (in autoclaves designed for sterilising liquids in bottles).

Alarms

There are eight alarms that may occur during the cycle; they can be signalled and printed:

- Cycle cancelled
- Chamber transducer failure
- TC1 chamber probe failure
- TC2 chamber probe failure (Option included in the laboratory version)
- Door open
- Vacuum test not OK
- Minimum temperature
- Maximum temperature

The display shows the phase and type of alarm that has occurred and it will only be possible to reset the alarm by entering a code.

Accessories

Hydraulic System

The following are available for the hydraulic system:
- safety valves
- electrically operated valves
- absolute filter, 0.2 microns efficiency, for re-entry of sterile air

Optionals

Automatic water loading

Kit for direct connection to the water distribution network (osmotic) with automatic filling.

Product probe, open liquids cycle

Product probe inside the sterilisation chamber for laboratory cycles (open liquids with natural cooling).

MODEL and CAPACITY	P-290H 77-litre
Chamber dimensions (mm)	diameter 396x615 depth
Chamber material	Stainless steel AISI 304
External finish	The front panel is made of ABS. The upper and side casings are made of iron painted in RAL 9023. The door is made of aluminium alloy
Gasket	Made of silicone. No maintenance and lubrication required
Total depth (mm)	940
Total width (mm)	805
Total height (mm)	540
Weight (kg)	130
Number of trays	3
Tray width (mm)	260
Tray depth (mm)	600
Electrical connection	230V single-phase; Kw 5,5
Mains frequency (Hz)	50
Class	Class B
Vacuum pump	Liquid ring with 400 watt power and suction capacity up to 40 nominal mbar
Solid loads (unpacked)	YES
Packed materials	YES
Narrow lumen	YES
Simple hollow objects (lumens)	YES
Porous loads	YES
Small porous loads	YES
Number of pre-programmed cycles	YES
Vacuum test	YES
Bowie & Dick test	YES
Separate tanks for clean and dirty water	YES
Hydraulic system	Teflon pipes; fittings and other components made of stainless material
Instant vaporizer / Steam generator	YES
Door closure	manual
USB (integrated)	standard, internal
USB (external)	No
Control System	PLC + Integrated Touch Screen
Display	Graphic
Printer	Thermal, alphanumeric installed on the control panel
Reprint of the last 10 cycles	YES

cisa

We care about life

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