





STEAM CLEANING AND DISINFECTING

INTRODUCTION CLEANING AND

- **DISINFECTING**
- \circ **PRINCIPLES**
- **BENEFITS**
- \circ VALIDATIONS
- CERTIFICATIONSEQUIPMENT
- APPLICATIONS





STEAM CLEANING AND DISINFECTING

○ INTRODUCTION

• CLEANING AND DISINFECTING

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SANIVAP equipment and biocleaning protocols contribute very efficiently to the fight against nosocomial infections in healthcare settings (hospitals, clinics, retirement homes...)

Steam biocleaning ensure simultaneous cleaning and disinfecting of patient environment surfaces (floors, wall, toilets, furniture...) as well as surfaces of many medical devices (operating tables, lights, incubators, beds, mattresses...)

SANIVAP biocleaning method fulfil totally the requirements of the European standards in terms of disinfection.

• CLEANING AND DISINFECTING

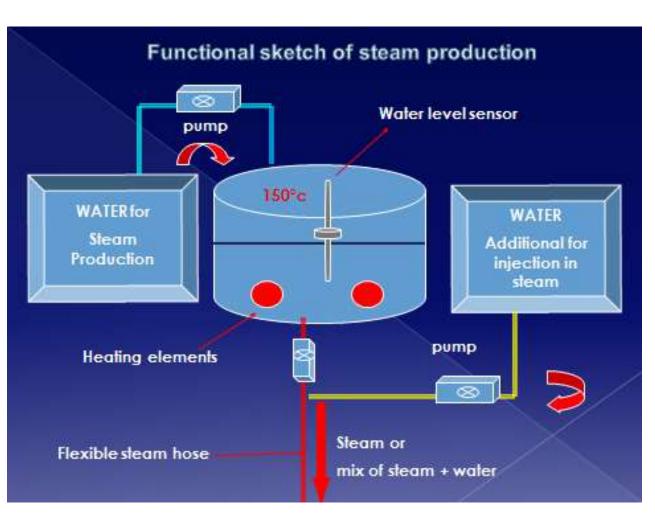
○ **PRINCIPLES**

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- Injection of water in a boiler, heating of the boiler with electric elements up to a temperature of 150°. The water is then transformed into steam at 5,5 bars pressure.
- The steam is conducted to a control handle via a flexible hose. The operator fixes on the handle the adequate accessory equipped with a microfiber cloth that he wishes to use according to his task.
- The operator passes on the surface the accessory at a normal speed (10 cm per sec) to get a very efficient cleaning and disinfecting of the surface.
- The surfaces are cleaned and disinfected in 1 pass only on the surface





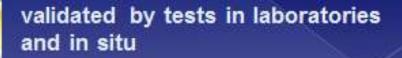




Benefits

a) EFFICACY

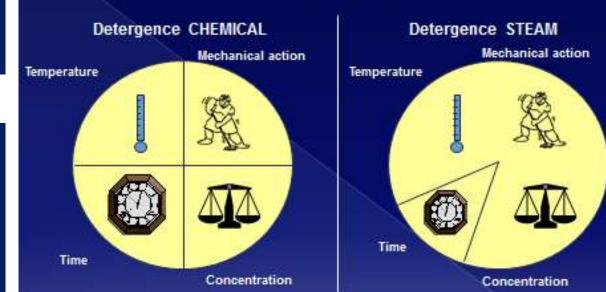
- → Detergency action (elimination of soils, residues, biofilm ...)
- → Biocidal action (elimination of micro-organisms : bacteria, fungi, viruses...)





OCLEANING AND DISINFECTING **OPRINCIPLES OBENEFITS O EQUIPMENT O APPLICATIONS**

Benefits : detergency action



THE COMBINAISON OF THE MAIN FACTORS INVOLVE IN THE CLEANING ACTION PERMIT RAPID VERY GOOD CLEANING RESULTS ON TREATED SURFACES



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CONCLUSIONS

Benefits : Biocidal action BIOCIDAL EFFICACY OF SANIVAP STEAM BIOCLEANING

The disinfection tests have been made according to European standards. Results demonstrate that, following 1 pass on the test surface, there a reduction of viable micro-organisms as follows:

- > 5,0 log₁₀ for bactericidy
- > 4,0 log₁₀ for fungicidy
- > 4,0 log₁₀ for mycobactericidy
- > 4,0 log₁₀ for virucidy
- > 4,0 log₁₀ for sporicidy (with H²O² injection)



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Benefits

b) Simple and economical

- → Detergence et disinfection are ensured in 1 pass on the surface
- → No utilization of chemical detergent and disinfectant, giving significant savings and improved work conditions







Benefits c) Rapidity



→ Steam biocleaning provides cleaning and disinfecting action in 1 operation, thus saving time

→ Treated surfaces remain clean longer time due to absence of chemical film on surface



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Benefits

d) Ecology and environmental care

→ No utilisation of chemical products

→ Very low water consumption

→ No polluted reject





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TESTING METHOD FOR EVALUATION OF BIOCIDAL ACTIVITIES ACCORDING TO EUROPEAN STANDARDS

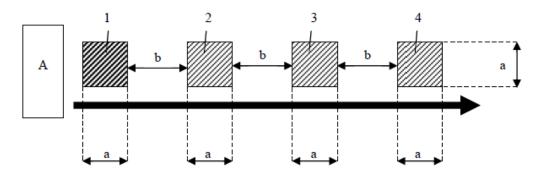


Figure 1 : Schematic representation of the test areas on the test surface. a=5 cm; b=7 cm. A: Position of the steam disinfection process before testing. \rightarrow Displacement of the steam disinfection process during testing (10 cm/s)



DESINFECTING PERFORMANCES STEAM ONLY



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RESULTS OF DISINFECTION EFFICACY TESTS: BACTERIA, FUNGI, YEASTS, MYCOBACTERIA AND SPORES

Evaluation of the efficacy of SANIVAP steam disinfection equipment SP400. Number of viable microorganisms on test surfaces before (Nw) and after (N) treatment by the SANIVAP steam disinfection process. Mechanical effect (Nm). Mean of viable microorganisms transferred from the contaminated areas (C4 to C6) to the non-contaminated areas (C1 to C3 and C7 to C15) (N') R: logarithmic reduction.

	BACTERIA				FUNGI - YEASTS		MYCOBACTERIA	SPORES	
		Pseudomonas aeruginosa CIP 103467	Staphylococcus aureus CIP 4.83	Enterococcus hirae CIP 5855	Escherichia coli CIP 54127	Candida albicans CIP 48.72	Aspergillus brasiliensis CBS 788.33	Mycobacterium terrae CIP 104321	Spores de Bacillus subtilis CIP 52 62
Nw (Nb.CFU/ test area)		1,3x10 ⁶	4,0x10 ⁶	2,5x10 ⁶	3,9x10 ⁶	1,3x10 ⁵	1,9x10 ⁵	4,9x10 ⁶	2,6x10 ⁴
Nm ((Nb.CFU/test area)	3,0x10 ⁵	4,1x10 ⁶	2,5x10 ⁶	3,2x10 ⁶	1,0x10 ⁵	1,4x10 ⁵	4,8x10 ⁶	8,2x10 ³
t area)	Nc4	<1	<1	32	2	<1	<1	6	88
CFU test area)	Nc ₅	<1	<1	5	1	<1	<1	11	47
N (Nb.	Nc ₆	<1	1	9	3	<1	<1	13	40
ž	N' C1 to C3 and C7 to C15	<10	<10	<10	<10	<10	<10	<10	11
N, B	N'm C1 to C3 and C7 to C15	<10	<10	<10	<10	<10	<10	<10	<10
	ogarithmic reduction R	>5,5	6,6	5,3	6,2	>5,0	>5,1	5,7	2,1

DESINFECTING PERFORMANCES STEAM ONLY



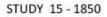
STUDY 15 - 1850

RESULTS OF DISINFECTION EFFICACY TESTS ON MULTI RESISTANT BACTERIA - FUNGI / YEASTS AND ON VIRUSES

Evaluation of the efficacy of SANIVAP steam disinfection equipment SP400. Number of viable microorganisms on test surfaces before (Nw) and after (N) treatment by the SANIVAP steam disinfection process. Mechanical effect (Nm). Mean of viable microorganisms transferred from the contaminated areas (C4 to C6) to the non-contaminated areas (C1 to C3 and C7 to C15) (N') R: logarithmic reduction.

		MULTI RESISTANT BACTERIA			FUNGI -	YEASTS	VIRUSES			
		Pseudomonas aeruginosa Multi R (incl ESBL)	Acinetobacter baumanii Multi R	Klebsiella pmeumoniae ESBL	Enterobacter cloacae Carbapenemase	Geotrichum candidum IP 285.54	Aspergillus flavus IP 2464.98	Murine Norovirus TIB-71	Adenovirus type 5 CCL-2	Coronavirus CCL-81
Nw (Nb.CFU/ test area)		1,11x10 ⁵	9,56x10 ⁶	1,33x10 ⁶	7,31 10 ⁶	3,8x10 ³	8,9x10 ⁵	4,9	5,0	5,2
Nm ((Nb.CFU/test area)	4,23x10 ⁵	9,63x10 ⁶	3,36x10 ⁶	5,44x10 ⁶	4,17x10 ³	6,6x10 ⁵	4,8	4,1	4,7
t area)	Nc4	<1	<1	<1	<1	<1	88	<1	<1	<1
N (Nb. CFU test area)	Nc5	<1	<1	<1	<1	<1	47	<1	<1	<1
N (Nb.	Nc ₆	<1	1	<1	<1	<1	40	<1	<1	<1
ž	N° C1 to C3 and C7 to C15	<10	<10	<10	<10	<10	11	<10	<10	<10
N,N	N'm C1 to C3 and C7 to C15	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Logarithmic reduction R	>5,6	>7,0	>6,5	>6,7	>3,6	>5,0	>4,6	>4,7	>4,9

DESINFECTING PERFORMANCES STEAM + HYDROGEN PEROXIDE





RESULTS OF DISINFECTION EFFICACY TESTS ON SPORES: BACILLUS AND CLOSTRIDIUM DIFFICILE

Evaluation of the efficacy of SANIVAP steam disinfection equipment SP540H. Disinfection process: steam + solution of hydrogen peroxide at 7.5% concentration. Concentration of hydrogen peroxide after mix with steam: maximum 3.5%.

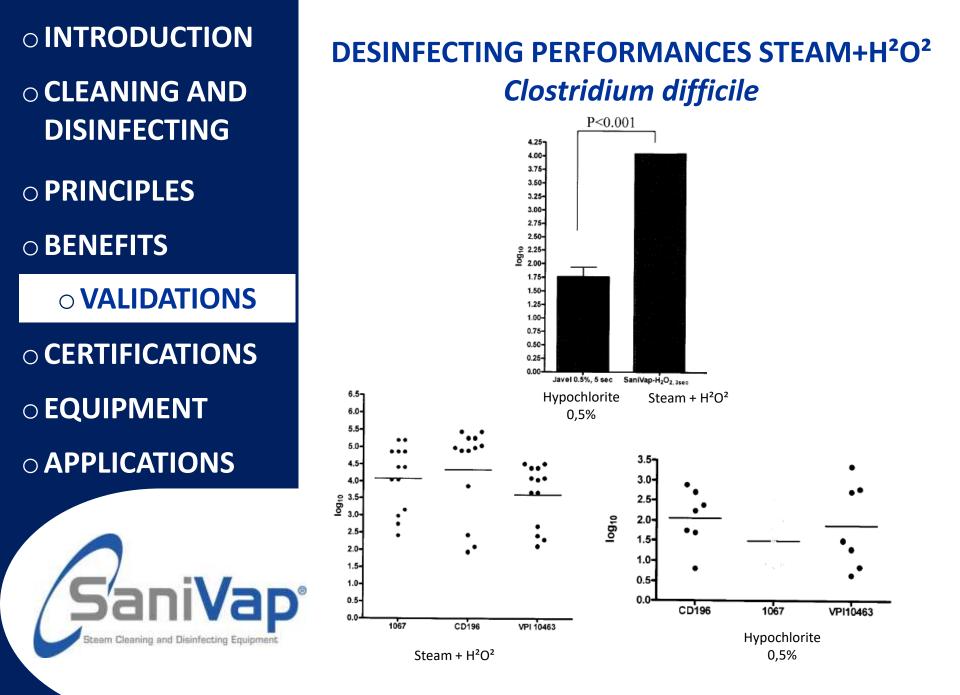
Number of viable microorganisms on test surfaces before (Nw) and after (N) treatment by the SANIVAP steam disinfection process. Mechanical effect (Nm). Mean of viable microorganisms transferred from the contaminated areas (C4 to C6) to the non-contaminated areas (C1 to C3 and C7 to C15) (N') R: logarithmic reduction.

		Bacillus cereus CIP 105.151	Clostridium difficile NCTC 13366
Nw ((Nb.CFU/ test area)	1,5x10 ⁴	0,66x10 ⁴
Nm	(Nb.CFU/test area)	2,18x10 ⁴	0,67x10 ⁴
area)	Nc4	<1	<1
FU test	Nc ₅	<1	4
N (Nb. CFU test area)	Nc6	<1	1
ž	N° C1 to C3 and C7 to C15	<10	<10
N'm	N'm C1 to C3 and C7 to C15	<10	<10
	Logarithmic reduction R	4,3	>3,8



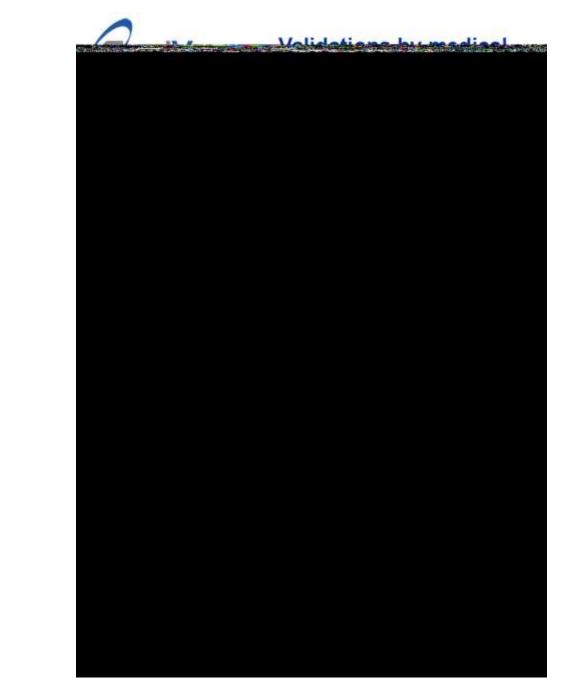
DESINFECTING PERFORMANCES STEAM+H²O²

		Microorganisms			
		Staphylococcus aureus CIP 4.83	Candida albicans IP 48.72	Aspergillus niger ATCC 16404 spores	
Tc (Nb CFU/ml)		6.6x10 ⁹ 4.2x10 ⁸		5.0x10 ⁷	
Nw (Nb.CFU/carrier)		1.4x10 ⁷	4.1x10 ⁶	5.0x10 ⁶	
Log ₁₀ (Nw)		7.2	6.6	6.7	
	assay 1	$< 1.4 x 10^{1}$	<1.4x10 ¹	<1.4x10 ¹	
N (Nb. CFU/carrier)	assay 2	<1.4x10 ¹	$< 1.4 x 10^{1}$	$<1.4x10^{1}$	
	assay 3	<1.4x10 ¹	$< 1.4 x 10^{1}$	$<1.4x10^{1}$	
N (Nb.CFU /carrier)		<1.4x10 ¹	$< 1.4 x 10^{1}$	<1.4x10 ¹	
$Log_{10}(\overline{N})$		<1.1	<1.1	<1.1	
R		> 6.0	> 5.5	> 5.6	









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- Recommendations from Health Society for Hospital Hygiene
- SANIVAP certifications :
 > ISO 13485
 > CE Medical device
 > ISO 9001









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RANGE OF PRODUCTS

The equipment range will consist of :

- 4 steam generators with different :
 - Power
 - Size
 - Functionalities
- A complete new range of accessories
- A complete range of microfiber clothes
 - 2 biocleaning trolleys







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Cleaning and disinfecting steam equipment

STEAM GENERATOR SP400



TECHNICAL SPECIFICATIONS

diam'r.

Boiler	
 capacity 	3.5 L
 material / quality 	stainless steel 316L
 steam pressure 	5 bars
 steam temperature 	150°C
 self-filling device 	yes
 steam outflow 	0 à 150 g/mn
Electric power	
 voltage 	230v - 50/60Hz
 boiler 	2750w
 internal, dismountable 	and anti-corrosion resistance
 total power 	2800w
Tanks capacity	
 water tank for steam pr 	oduction 4.6 L
 filter on steam output 	yes
Electric protection	
 product 	IP 44
 waterproof electronic a 	nd electric box IP 56
Weight / size	
 steam hose profession 	al 4,5 m
 electric cable in neopre 	me 10 m
 product 	19 Kg
 size 	L 42 x 1 30 x h 43 cm
Homologation / certifications CE medical devices L SANIVAP is certified	NE 0459 ISO 13485 - ISO 9001
Warranty : 1 year (parts / labour local repair by accredited technic	
Boiler warranty : 3 years according conditions	ing to Sanivap warranty

The SP400 biocleaning steam system ensures the complete cleaning and disinfecting of all kind of surfaces : floors, vertical surfaces, furniture, equipment, medical devices... The constant steam quality of the SP400 ensures its effectiveness in terms of cleanliness and disinfection.

The SP400 is especially designed for intensive use up to 8 hours per day.

The SP400 steam system is ergonomic, easy to operate and very suitable for daily usage in accordance with SANIVAP protocols. The wide range of adaptable accessories contributes to its effectiveness and versatility.



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· Self filling magnetic system

· Self-filling magnetic contactor

· Wheels high quality standard

· Hand contactor on steam handle · Device fully protected - IP 44

· Alarm : lack of water for boiler supply · Lack of water security for boiler protection

· Ergonomic steam handle · Easy accessories connexion

level in tank ()

· Fitter on water tank

· Easy drain of water tank

High boiler insulation

Conception of the boiler

Conception of fluid circuits

Quality of material

□ Safety

Ergonomics

Aluminium

STEAM QUALITY

· Internal. dismountable and anti-corrosion résistance

· Quality material (316L austenitic stainless steel)

· Optimized performance ratios of the boiler

· Electronic monitoring of steam pressure and

· Steam stainless steel filter protecting electro valve

temperature to secure disinfection efficacy. Steam output regulation – 6 levels

. Easy drain of the boiler with safety valve

PRODUCT QUALITY

Structure and components in stainless steel , ABS.

· Stainless steel boller 18/10 quality AISI 316L

 Electric and electronic box waterproof - IP 56 Neoprene electric cable 10m (3x2.5mm)

Ergonomic hand contactor on steam handle

· Easy draining and steam cleaning of water tank · Range of ergonomic accessories · Ergonomic steam biocleaning trolley

power / pressure / steam outflow

Cleaning and disinfecting steam equipment

SP400

PROTOCOLS AND TRAINING

- Training provided for use of the steam system and its regular maintenance
- Suitable protocols at disposal

TECHNICAL ASSISTANCE

- · Technical assistance to the users for an optimal use of the steam system
- Availability of maintenance contracts

 After Sales Service provided by accredited national network

ACCESSORIES RANGE

. The SANIVAP long experience has enabled to develop a wide range of ergonomic accessories suitable for cleaning and disinfecting protocols.

. The technical microfiber range associated to the SANIVAP accessories optimizes the performance of the steam system.

STANDARD EQUIPMENT



Eroonomic steam hose and handle

Sensitive switches and LCD control screen







Cleaning and disinfecting steam equipment

STEAM GENERATOR SP540H

A CONTRACTOR	
TECHNICAL SPE	CIFICATIONS
• Boiler	
capacity	3.51
 material / guality 	stainless steel 316L
steam pressure	5 hars
steam temperature	150°C
 self-filling device 	yes
 steam outflow 	0 å 150 g/mn
5-335224444-005-0400	Long Contraction Provide
Electric power	(2028 102000100)
- voltage	230v - 50/60Hz
- boiler	2750w
total power	nd anti-corrosion resistance 2850w
Tanks capacity	
 water tank for steam pro 	duction 6 L
 filter on steam output 	yes
	(C)
Electric protection	IP 44
 product waterproof electronic an 	
- waterproof electionic an	delectric box in 50
Weight / size	
 steam hose professiona 	
 electric cable in neoprer 	ne 10 m
 product 	23 Kg
 size 	L 42 x 1 30 x h 48 cm
Homologation / certifications	
Conformity to norm NF-	T72-281 · 2009
SANIVAP is certified :	
Warranty : 1 year (parts / labour	
local repair by accredited technicia	any
Boiler warranty : 3 years according	ig to Sanivap warranty
conditions	

The SP540H steam system ensures a high level disinfection thanks to its patented system combining steam and a solution of hydrogen peroxide.

The SP540H provides the following benefits :

- Very high disinfection efficacy including on MRSA, CRE, C.Difficile spores.
- Reduction of operating costs in terms of time and absence of chemical usage.
- Preservation surface and equipment integrity.
- 100% ecological : no chemical usage and related polluted reject.
- No risk for operator thanks to very low concentration of H²O² solution used. The SP540H is especially designed for intensive use up to 8 hours per day. The SP540H can also be used for steam only biocleaning operations.



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STEAM QUALITY

Conception of the boiler

- · Internal, dismountable and anti-corrosion résistance
- · Quality material (316L austenitic stainless steel)
- · Self filling magnetic system
- · High boiler insulation
- · Optimized performance ratios of the boiler : power / pressure / steam outflow

Conception of fluid circuits

- · Electronic monitoring of steam pressure and
- temperature to secure disinfection efficacy.
- Steam output regulation 6 levels
- · Connector for hydrogen peroxide tank
- · Steam stainless steel filter protecting electro valve
- · Self-filling magnetic contactor
- Filter on water tank
- All fluid circuit adapted to H²O²
- Injection chamber of H²O² design to get a perfect. homogeneous steam - H2O2 mix to ensure disinfection

PRODUCT QUALITY

Quality of material

- · Structure and components in stainless steel . ABS. Aluminium
 - Stainless steel boiler 18/10 guality AISI 316L
 - · Wheels high quality standard

□ Safety

- · Hand contactor on steam handle
- Device fully protected IP 44
- Electric and electronic box waterproof IP 56
- Neoprene electric cable 10m (3x2.5mm)
- · Alarm : lack of water for boiler supply
- · Alarm : lack of H2O2 solution
- Condemnable Injection of H²O²

Ergonomics

- · Ergonomic hand contactor on steam handle
 - Ergonomic steam handle
- · Easy accessories connexion
- · Easy draining and steam cleaning of water tank
- Range of ergonomic accessories
- Ergonomic steam biocleaning trolley
- · LCD control screen for operator (steam output, water level in water and H²O² tanks...)



Ergonomic steam hose

and handle





Connexion with tank MV600-2L

Cleaning and disinfecting steam equipment

SP540H

PROTOCOLS AND TRAINING

- Training provided for use of the steam system and its regular maintenance
- Suitable protocols at disposal

TECHNICAL ASSISTANCE

- · Technical assistance to the users for an optimal use of the steam system
- Availability of maintenance contracts
- After Sales Service provided by accredited national network

ACCESSORIES RANGE

•The SANIVAP long experience has enabled to develop a wide range of ergonomic accessories suitable for cleaning and disinfecting protocols.

The technical microfiber range associated to the SANIVAP accessories optimizes the performance of the steam system.

STANDARD EQUIPMENT



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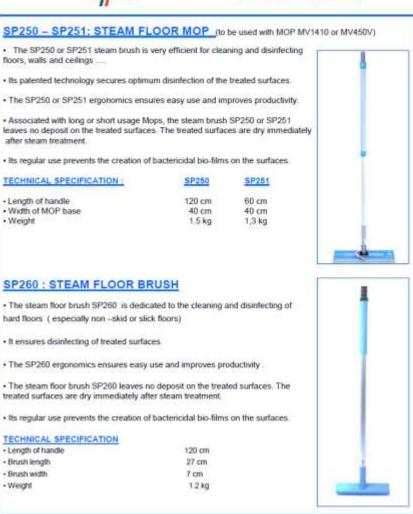
○ APPLICATIONS





Steam cleaning and disinfecting equipment

Accessories



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Steam cleaning and disinfecting equipment

Accessories



· Its ergonomic ensures easy use and improves productivity.

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TECHNICAL SPECIFICATIONS :

- Composition : 70% polyester / 30% polyamide (100% microfiber)
- Sizes : MV 245 for SV140 : 55 x 5 cm MV 246 for SV141 : 32 x 5 cm
- Washing T* : synthetic cycle 60°C drying T* : 60°C
- 500 washes no softening/ no bleach

MV 344 and 345 : MICROFIBER CLOTH FOR MICROFIBER MOUNT SP 240

TECHNICAL SPECIFICATIONS :

- MV344 : simple thickness MV345 : double thickness
- Composition : 80% polyester / 20% polyamide (100% microfiber)
- Dimensions : 27 x 6.6 cm
- Washing T^{*}: synthetic cycle 60°C drying T^{*}: 60°C
- 300 washes no softening/ no bleach

MV 3313 B/R/J/V : MICROFIBER CLOTH

TECHNICAL SPECIFICATIONS:

- Composition : 70% polyester / 30% polyamide (100% microfiber)
- Size : 32 x 32 cm weight dry : 52 g
- Washing T* : synthetic cycle 60°C drying T* : 60°C
- . 500 washes no softening/ no bleach





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Steam cleaning and disinfecting equipment

MICROFIBER CLOTHS

MV 1410 : MICROFIBER FLOOR MOP FOR STEAM MOP SP250

TECHNICAL SPECIFICATIONS :

- · Composition : 100% polyester + polyamide threads bleu
- Sizes : 50 x 11.5 cm weight dry: 52 g
- Washing T* : synthetic cycle 90°C drying T*: 60°C
- 500 washes no softening/ no bleach



MV 450V : MICROFIBER FLOOR MOP FOR STEAM MOP SP250

TECHNICAL SPECIFICATIONS :

- Composition : 80% polyester / 20% polyamide (50% microfiber)
- Sizes: 46 x 16 cm (Velcro 43 x 11)
- Washing T* : synthetic cycle 90°C drying T* : 60°C
- · 500 washes no softening/ no bleach



MV 1404 : MICROFIBER MOP FOR MICROFIBER MOUNT 30CM SP 270

TECHNICAL SPECIFICATIONS :

- Composition : 100% polyester (100% microfiber)
- Sizes : 34 x 11 cm
- Washing T* : synthetic cycle 90°C drying T* : 60°C
- 500 washes no softening/ no bleach



MV 3545 : MICROFIBER FOR WINDOW GLASSES

TECHNICAL SPECIFICATIONS :

- · Composition : 50% polyester / 50% polyamide (100% microfiber)
- · Sizes : 32 x 32 cm
- Washing T^{*}: synthetic cycle 60°C drying T^{*}: 60°C
- · 300 washes no softening/ no bleach







SP400 SP500 – SP600 KIT





Steam Cleaning and Disinfecting Equipment

BIOCLEANING TROLLEYS CONNECTED



O CLEANING AND DISINFECTING **OPRINCIPLES OBENEFITS OVALIDATIONS OCERTIFICATIONS O EQUIPMENT O APPLICATIONS**

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SaniVap[®] Steam Cleaning and Disinfecting Equipment

Main applications in healthcare



Operating Theater



Patient room





Neonatal incubators



Medical devices



Emergency vehicles

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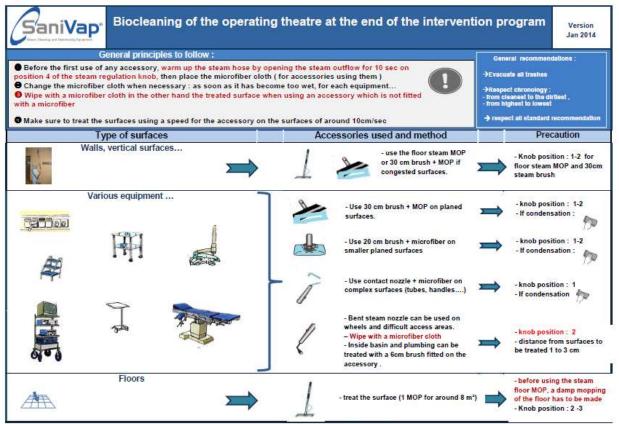
OPERATING THEATERS



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PROTOCOLES OPERATING THEATERS



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PATIENT ROOMS

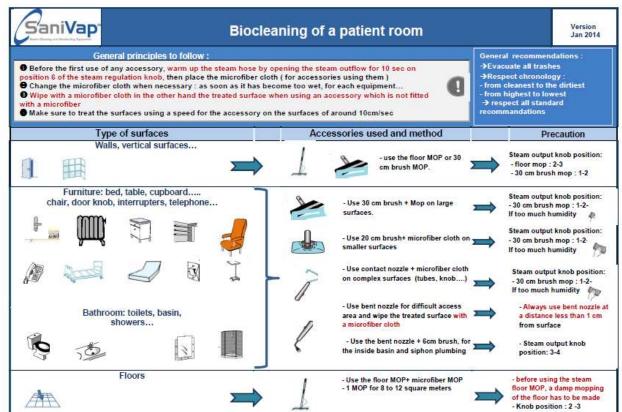


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PROTOCOLE PATIENT ROOMS



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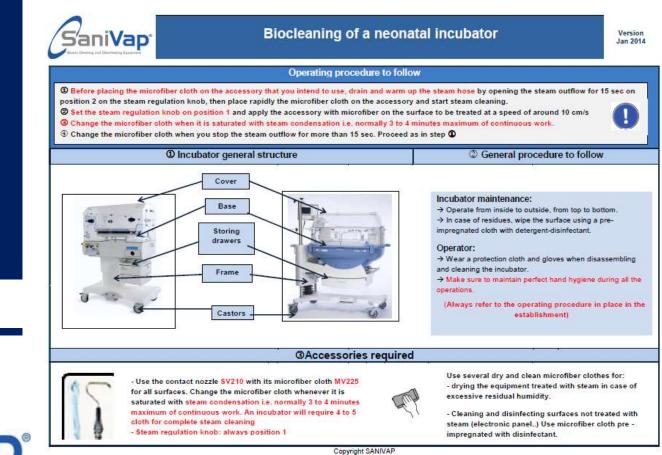
NEONATAL INCUBATOR



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SaniVap® Steam Cleaning and Disinfecting Equipment

PROTOCOLE NEONATAL INCUBATOR



OINTRODUCTION O CLEANING AND DISINFECTING **OPRINCIPLES OBENEFITS OVALIDATIONS O EQUIPMENT O APPLICATIONS**



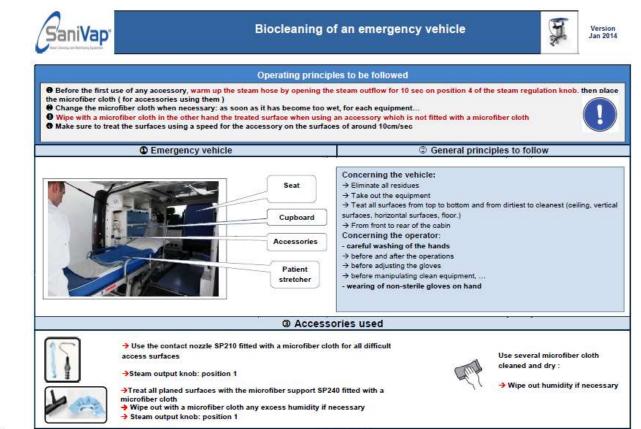
EMERGENCY VEHICLES



OINTRODUCTION ○ CLEANING AND DISINFECTING **OPRINCIPLES OBENEFITS OVALIDATIONS CERTIFICATIONS O EQUIPMENT O APPLICATIONS**



PROTOCOLE EMERGENCY VEHICLES



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CLEANING AND
 DISINFECTING

○ PRINCIPLES

○ BENEFITS

○ VALIDATIONS

○ CERTIFICATIONS

O EQUIPMENT

O APPLICATIONS

OTHER APPLICATIONS IN HEALTHCARE

STERILIZATION UNITS
 Cleaning of hollow instruments
 (pipes, cannula.....) and
 orthopedic instruments

FOOD and LAUNDRY TROLLEYS Cleaning and disinfecting the transport trolleys





KITCHENS
 Cleaning and disinfecting
 equipment and environment
 surfaces



CLEANING ANDDISINFECTING

 $\circ \textbf{PRINCIPLES}$

 \circ **BENEFITS**

 $\bigcirc \text{VALIDATIONS}$

○ CERTIFICATIONS

O EQUIPMENT

O CONCLUSION

er Cleaning and Disinfecting Equipm

conclusion

Steam biocleaning in healthcare settings enables to :

- Facilitate cleaning and disinfecting operations
- Reduce the infection risk coming from the patient environment
- Contribute to environmental protection

 Improve work conditions of personnel in charge







○ INTRODUCTION

CLEANING ANDDISINFECTING

 \circ **PRINCIPLES**

 \circ **BENEFITS**

○ VALIDATIONS

OCERTIFICATIONS

OCONCLUSION

With more than 8000 units sold in the past 13 years, SANIVAP is the leader in Europe for steam cleaning and disinfecting equipment for use in the medical sector.

With the introduction of the new range of products, Sanivap wishes to develop its export commercial activities in new markets.



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THANK YOU FOR YOUR ATTENTION





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